

OCONEE NUCLEAR STATION

USI A-46 RELAY EVALUATION REPORT

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A Duke Energy Company

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OCONEE NUCLEAR STATION

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EXECUTIVE SUMMARY

The contents of this portion of the submittal has been included in the Executive Summary found in the "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report" portion of this submittal.

INTRODUCTION

1.1 PURPOSE

This report documents the USI A-46 relay seismic functionality review for Oconee Nuclear Station. This work was performed by Duke Power Company in order to address NRC Generic Letter 87-02 (Reference 1), "Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI), A-46."

A review of relays associated with safe shutdown equipment is required as part of the resolution of USI A-46. The purpose of the relay functionality review is to verify that safe shutdown systems would not be prevented from performing their safe shutdown functions because of relay (contact) chatter during the period of strong ground motion associated with Design Basis Earthquake (DBE).

The adequacy of the equipment housing these relays is addressed in the report being submitted simultaneously entitled, "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report."

1.2 SCOPE

This report addresses the equipment which was included in the Safe Shutdown Equipment List. The majority of this equipment is located in the three major structures, the Turbine Building, the Auxiliary Building, and the Reactor Building. All associated equipment walkdown evaluations are documented in a separate report being submitted simultaneously entitled, "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report."

An Unresolved Safety Issue (USI) A-46 report which discussed the scope, methods, and results of the seismic adequacy review for the equipment included in the Emergency Power Path Safe Shutdown Equipment List was submitted to the Nuclear Regulatory Commission in December, 1996. That report encompassed the Keowee Hydro Station; the Overhead Power Path through the 230 kV Switchyard and terminating at the high voltage side of the CT1, 2, and 3 transformers. Also included was the underground power path which terminates at the high voltage side of the CT4 transformer.

1.3 PLANT DESCRIPTION

Oconee Nuclear Station is located in Oconee County in northwestern South Carolina. The station is sited on the shore of Lake Keowee, a Duke impoundment on the Keowee river, a tributary of the Savannah River. The station was built during the 1967 to 1974 period. Unit 1 began commercial operation in 1973, and the last Unit (Unit 3) began commercial operation in 1974. The station consists of three Babcock & Wilcox pressurized water reactors, each designed to

generate approximately 890 MWe. The balance of plant was designed and constructed by Duke Power Company, with Bechtel Corporation designing the Reactor Buildings and C.T. Main, Inc. designing the Intake Structure.

The station consists of three reactor buildings, a single turbine building (each Unit is seismically isolated) and two auxiliary buildings, one servicing Units 1 and 2, and the other servicing Unit 3. The nuclear steam supply system has two loops with two cold legs each. Each Unit has two "once-through" steam generators that produce superheated steam at constant pressure. The reactor and nuclear steam supply system are contained within the reactor building, a post-tensioned reinforced concrete cylinder and dome with a steel liner.

A reliable source of emergency onsite power is provided by the two Unit Keowee Hydroelectric Station, which is located at the Keowee Dam, about a mile away from the plant. Emergency power is supplied via two separate and independent paths, one of which is the Overhead Power Path through the 230 kV Switchyard and the second is the underground power path to transformer CT4 and the standby busses. In addition to a large grid network, backup power is also available through a dedicated line from three combustion turbine Units at the Lee Steam Station, approximately 30 miles away.

Within ONS, this power is distributed through 4.16 kV switchgear TC, TD and TE. This switchgear provides power for major pumps, 600V Load Centers as well as 600 and 208V Motor Control Centers. 600 and 208V Motor Control Centers provide power to the various AC power loads. 120V AC power is provided by various power panel panelboards within the plant. DC power is supplied by 600V Battery Chargers and 125/250V DC Battery Systems and Distribution Centers which provide power to instrumentation and controls that are needed during loss of power conditions. Emergency lighting is also provided through the 125/250V DC Battery System and associated lighting panelboards.

The plant design incorporates the Standby Shutdown Facility (SSF), a totally independent means of achieving and maintaining safe shutdown conditions if the normal plant safety systems are unavailable.

Design Basis Earthquake Floor Response Spectra for Oconee Nuclear Station are addressed in Section 2 of the "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report" portion of this submittal.

1.4 BACKGROUND

Due to the extent of the changes in the requirements for seismic qualification of equipment over the years, the U.S. Nuclear Regulatory Commission (NRC) initiated USI A-46, "Seismic Qualification of Equipment in Operating Nuclear Plants," in December 1980. The purpose of USI A-46 is to verify the seismic adequacy of essential equipment in operating plants which had not been qualified in accordance with more recent criteria.

In 1982, the Seismic Qualification Utility Group (SQUG) was formed to develop a practical approach for seismic qualification of equipment in operating plants. The approach developed by SQUG was to use experience with the performance of power plant and industrial equipment in actual earthquakes as the primary basis for evaluating the seismic ruggedness and functionality of essential equipment in nuclear power plants. In 1983, the NRC issued NUREG 1018 which includes a general endorsement of the use of experience data for verification of the seismic adequacy of equipment in nuclear plants.

In early 1987, the NRC issued Generic Letter (GL) 87-02 to owners of operating nuclear plants which were licensed prior to development of modern seismic qualification standards. The recipients of GL 87-02 are referred to as A-46 plants and include Oconee Nuclear Station. Essentially, all owners of A-46 plants, including Duke Power Company, are SQUG members. GL 87-02 requires owners to take action to verify the seismic adequacy of important equipment in their plants. The SQUG approach, embodied in the Generic Implementation Procedure (GIP), is explicitly recognized by the NRC as the preferred method for accomplishing this objective.

In 1992, the NRC issued Supplement No. 1 to GL 87-02 (Reference #2) which transmitted Supplemental Safety Evaluation Report No. 2 on SQUG GIP, Revision 2, as corrected on February 14, 1992 (Reference #1). References #1 and #2 are the basis for the seismic evaluations described in this report.

Oconee Nuclear Station provided information in support of Generic Letter 87-02 to the NRC in a letter dated September 21, 1992 (Reference #4). On November 19, 1992, the NRC responded with a letter of request for additional information. Also, the NRC requested clarification as to the Oconee Nuclear Station's commitment to the Generic Implementation Procedure (GIP), Revision 2, as corrected on February 14, 1992 and the associated Supplemental Safety Evaluation (SSER) No. 2. Duke responded with a letter dated January 15, 1993 clarifying Oconee Nuclear Station's commitment to the GIP and providing the requested additional information to the NRC. The NRC's letter dated April 5, 1993 to Duke Power provides the Staff's evaluations and conclusions of the additional information (Reference #5).

In a letter dated October 3, 1995, Duke power updated the NRC Staff on the progress of the resolution to USI A-46 and revised the submittal date for the USI A-46 report to December 31, 1996. A partial USI A-46 report was submitted as an attachment to a letter dated December 30, 1996. The partial submittal covered the emergency power equipment which is located at the Keowee Hydro Units and in the Oconee Switchyard.

In a letter dated December 30, 1996, Duke Power indicated that an expected date for submittal of the remaining portion of the USI A-46 report would be provided to the NRC by March 31, 1997. Duke Power's letter to the NRC dated March 31, 1997, stated the balance of the USI A-46 submittal would be made by December 15, 1997.

In addition to the above stated correspondence, the NRC visited Oconee Nuclear Station during the month of April 1995 for an In-Progress Audit. The primary intent was to observe and assess the effectiveness of identifying seismic concerns per the GIP and general implementation of the GIP with respect to the walkdowns and field assessments. The NRC's evaluation of this audit was provided to Duke Power in a letter dated June 15, 1995.

1.5 USI A-46 RELAY EVALUATION

For most equipment functionally required for safe shutdown in nuclear plants, demonstration of seismic adequacy using an experience-based approach will be accomplished by verifying that the equipment is comparable to that in the conventional plants which have successfully withstood significant earthquakes and by assuring that the equipment is properly anchored. In the case of electrical relays, this approach addresses the adequacy of the cabinet - but may not always address the adequacy of the relays or their contacts. First, the types of relays used in power plants are diverse and not easily grouped in generic equipment classes. Second, there have been instances of relay malfunction in earthquakes and in seismic shake-table tests at acceleration levels which may be near nuclear plant design levels.

In order to adequately address the relay concerns associated with the USI A-46 effort, the Electric Power Research Institute (EPRI) established a project to develop a methodology for evaluating relay seismic functionality in operating nuclear power plants. The project developed EPRI Reports NP-7148-SL (Reference 5), NP-7148-SL Volume 2: Addendum (Reference 8), NP-7147-SL (Reference 6) and NP-5223-SL (Reference 7) which provide the methodology, procedures and data for evaluating relay seismic functionality.

Section II.6 of the GIP provides an overview of the USI A-46 relay review criteria and methodology. Section II.9 of the GIP defined the information which should be included in the relay evaluation report. The content of the GIP concerning relay evaluations is based on the detailed criteria, methodology, and procedure documented in EPRI Report NP-7148-SL (Reference 5). Accordingly, the review of the relays associated with the USI A-46 safe shutdown equipment for Oconee Nuclear Station was performed and documented in accordance with the requirements of the GIP, the NRC SSER on the GIP, and EPRI Report NP-7148-SL.

1.6 REPORT ORGANIZATION

Section 1, "Introduction" - This section describes the purpose and scope of this report as well as a brief plant description of Oconee Nuclear Station. In addition, a background of the USI A-46 program is included as well as a description of the role that relays play in this program.

Section 2, "Results and Planned Actions" - This section contains a summary of the USI A-46 relay review for Oconee Nuclear Station.

Section 3, "Technical Approach" - Contains a description of the overall technical approach and assumptions used in the review.

Section 4, "Safe Shutdown Equipment" - A summary of the equipment included in the relay review is contained in Section 4.

Section 5, "Results of Relay Screening and Evaluation" - This section documents relay screening and evaluation results.

Section 6, "Significant or Programmatic Deviations from the GIP" - A statement is made that no significant or programmatic deviations from the GIP were made.

Section 7, "Third Party Audit Summary" - Third-Party Audits are addressed here by referring back to the seismic walkdown report.

Section 8, "References" - The references used to support the evaluation documented by this report are listed.

Appendix A, "Glossary of Terms" - Provides a tabulation of terms used in the report.

Appendix B, "System/Circuit Evaluation Discussions" - Includes discussions of plant systems and associated circuit evaluations.

Appendix C, "Relay Seismic Capacity Data" - This appendix tabulates relay capacity data as used in relay screening.

Appendix D, "Essential Contact Device List" - A list of essential contact devices, including the relay identification numbers, the manufacturers' model numbers, and plant location where the relay is mounted is included.

Appendix E, "Relays Screened using GIP Switchgear Relay Methodology" - Lists contact devices screened as seismically rugged using the GIP switchgear screening techniques.

Appendix F, "Essential Contact Device Enclosures" - This appendix lists enclosures containing essential contact devices.

Appendix G, "Résumé of Lead Relay Reviewer" - Includes the résumé of the lead relay reviewer.

Section 2

RESULTS AND PLANNED ACTIONS

2.1 SUMMARY OF RESULTS

This section documents the results of the seismic functionality review of relays affecting USI A-46 safe shutdown components for Oconee Nuclear Station. The review was performed in accordance with the methodology and procedures established for plant specific resolution of USI A-46; specifically, the Generic Implementation Procedure (GIP), the NRC safety evaluation report on the GIP, and EPRI report NP-7148-SL. Table 2-1 of this section provides a summary of the results of that review. This table includes each classification of relay screening employed and a quantity for each classification.

The Oconee Nuclear Station Safe Shutdown Equipment List (SSEL) items requiring a relay review are included in Section 4. Relay reviews were performed for each of these items. These reviews are documented in Section 5 of this report and summarized here in Section 2.

2.2 RELAY WALKDOWN ACTIVITIES

The field walkdown portion of the relay functionality review was performed in conjunction with the seismic walkdowns by the Seismic Review Teams. Relay type, cabinet location and mounting were spot checked by the walkdown team with no significant discrepancies noted. Relay mountings were reviewed for proper mounting. Relay amplification factors were determined based on the equipment classification and the assumption that all relays were mounted at the highest point of the cabinet unless verified otherwise. Equipment classes were selected based on the guidance provided in the GIP and EPRI NP-7148-SL (Appendix I) and EPRI NP-7149-D.

2.3 RELAY OUTLIERS

Essential relays that were not able to be screened using GIP techniques were classified as outliers. Table 2-2 summarizes these outlier contact devices and the proposed resolutions and current status at the time of the submittal. This table is sorted by type of contact device and includes columns for the type of contact device, the manufacturer and model number of the device, the proposed resolution for the outlier, whether or not the outlier has been resolved and the quantities of each device.

2.4 COMPLETION ACTIVITIES

Relay Outliers will be resolved by one of the following approaches:

- 1) Testing relays under the industry sponsored SQRSTS program to determine if they can be qualified to a ruggedness level that exceeds the seismic demand on the relays, or
- 2) Replace the relays with more rugged relays whose GERS capacities are higher than the seismic demand on the relays, or
- 3) Relocate the relays to a location where the seismic demand on the relays will be less than the GERS capacity for the relays, or
- 4) Modify the circuit configuration such that chatter will be acceptable, or
- 5) Perform in-situ modal testing/analysis on the cabinets that house relays to demonstrate more specific in-cabinet response thus lowering the demand on relays.

Table 2-1-ONS
Oconee Nuclear Station
Summary of Contact Device
Screening Results

Sorted by: Device Evaluation

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USI A-46 Device Evaluation/Screening Category	Quantity
Chatter Acceptable (Non-Essential)	1825
Chatter Not Acceptable (Outliers Requiring Further Testing or Evaluation)	60
Low Ruggedness (Outliers To Be Replaced)	24
Not Vulnerable to Contact Chatter	1578
Resolved Relay Outlier	6
Screened using EPRI Relay GERS	525
Screened using GIP Switchgear Relay Methodology	161
Screened using Seismic Test Report and/or Calculation	852
Total	5031

Table 2-2-ONS
Oconee Nuclear Station
Summary of Outlier Contact Devices

Sorted by: Device Type + Manufacturer + Model Number

Page 1 of 1

Type Device	Manufacturer	Model No.	Proposed Resolution *	Resolved **	Quantity
Control Module	BAILEY CONTROLS	6613303-1	SQURTS test or replacement		5
Control Module	BAILEY CONTROLS	6614306-1	SQURTS test or replacement		3
Control Module	SAIC	RP 2049-2	SQURTS test or replacement		11
Pressure Switch	SQUARE D	9013 SERIES	SQURTS test or replacement		6
Pressure Switch	STATIC-O-RING	9NN-K45-N4-F1A	SQURTS test or replacement		6
Relay	GENERAL-ELECTRIC	CR120	Replace with seismically adequate equivalent		6
Relay	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)	Replace with seismically adequate equivalent		9
Relay	GENERAL-ELECTRIC	PVD21D/NON-OP	Screened using total energy methodology	Yes **	6
Relay	ITE/GOULD	P102C111	SQURTS test or replacement		3
Relay	POTTER-BRUMFIELD	KRPA14AN	SQURTS test or replacement		2
Relay	WESTINGHOUSE	CV-7 (1875524)	Replace with seismically adequate equivalent		18
Relay	WESTINGHOUSE	HU SERIES (Low Ruggedness)	Replace with seismically adequate equivalent		15
Total					90

* Actual Resolution will be in compliance with Section 5 of the GIP

** Contact chatter evaluated/resolved for Licensing Basis Event per concerns outlined in the GIP

TECHNICAL APPROACH

3.1 INTRODUCTION

The relay evaluation methodology used for Oconee Nuclear Station consists of a step-by-step procedure to screen and evaluate relays. Systems, associated circuits, and relays which must remain functional during and immediately after an earthquake were first identified. Essential relays were then identified. These essential relays were screened with respect to capacity/demand using Generic Implementation Procedure (GIP) methodology where possible. The remaining essential relays that were not able to be screened per the GIP were classified as outliers.

3.2 CRITERIA AND ASSUMPTIONS

For resolution of USI A-46 it is not necessary to verify the seismic adequacy of all plant equipment defined as Seismic Class 1 in NRC Regulatory Guide 1.29. Instead, only those systems, subsystems, and components required to bring the plant to a safe shutdown condition and to maintain it in that condition for 72 hours per GIP criteria are included in the scope of USI A-46. As a result, the scope of the seismic verification review is limited to equipment providing functions necessary for achieving and maintaining safe shutdown. Other important assumptions which define systems and equipment which are considered essential under Unresolved Safety Issue (USI) A-46 are defined in NUREG-1211 and include: (1) the seismic event does not cause a loss of coolant accident (LOCA) and a LOCA will not be postulated to occur simultaneously with or during the seismic event, (2) off-site power may be lost during or following a seismic event, and (3) random, single-active failures are assumed for systems counted on to achieve and maintain hot, safe shutdown. In addition, other specific criteria and assumptions involved in the detailed relay evaluation procedure used for Oconee Nuclear Station are provided in References 3, 4, 7 and 10.

3.3 IDENTIFICATION OF SSEL SYSTEMS AND EQUIPMENT

Four functions were considered for achieving and maintaining a safe shutdown condition following a design basis earthquake. These functions are as follows:

- Reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal

The systems best suited to perform these safe shutdown functions were identified as discussed in Section 4 of the "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report" portion of this

submittal. Information included in the identification process was a list of the components required within the systems as well as data to document whether or not relay chatter was acceptable and power availability requirements for the system components.

3.4 ESSENTIAL RELAY IDENTIFICATION AND EVALUATION

The methodology for evaluating the seismic functionality of relays was based on a two tier evaluation process. The top tier effort identified a set of plant systems and equipment (including associated relays) which are required to function to maintain the plant in a safe condition during and immediately following an earthquake. Circuit analysis was performed on the identified systems and equipment. Part of the circuit analysis involved the identification of relays that were not vulnerable to contact chatter (NV) such as solid state relays. Relays whose contact chatter could cause a system or component to be placed in an undesired state were identified as essential relays. These essential relays were evaluated for their seismic ruggedness, including GERS evaluations as well as current qualification techniques (IEEE standards, etc.). Essential relays are tabulated in Appendix D.

Essential relays were screened as discussed below:

GIP Level 1 screening involved comparing in-cabinet relay GERS values to pre-determined acceleration values for the type of cabinet in which the relays were mounted and the associated elevation above grade of the cabinets as defined in EPRI NP-7148-SL (Reference 5).

For GIP Level 2 screening, relay capacities were used as defined in EPRI NP-7147-SL (Reference 6) and any that were developed per test standards meeting IEEE 344-75 or newer standards such as the Seismic Qualification Reporting and Testing Standardization (SQRSTS) program. Seismic demands on the relays were calculated using seismic floor acceleration values for the various buildings and floor elevations as addressed in the "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report" portion of this submittal. These floor acceleration values were multiplied by the appropriate cabinet amplification factors for the type of cabinet in which the relays were mounted. Then, the appropriate knock-down factors were applied to account for the Median Centered classification issue to calculate the final seismic demand on the relays.

GIP Level 3 screening was not used for Oconee Nuclear Station.

For relays that were not able to be screened using Level 1 or Level 2 techniques as discussed above, GIP Level 4 screening (current qualification methods) was used to determine if any of the remaining relays could be screened.

The need for corrective actions was identified where the screening and evaluations described above were unsuccessful. These are summarized in Section 2.

The results of this process of identifying and evaluating the relays required to support Oconee Nuclear Station in the event of a design basis earthquake are documented in this report. This report provides a traceable record that all relays or groups of relays which affect the operation of the safe shutdown components have been evaluated.

As part of the screening process, any relays that were documented in Appendix E of EPRI NP-7148-SL (Reference 5) were identified as Low Ruggedness relays. Table 3-1 lists essential Low Ruggedness relays.

Appendix F lists enclosures which house essential contact devices for Oconee Nuclear Station.

3.5 CAPACITY VERSUS DEMAND SCREENING APPROACHES

Level 1 Screening

The Level 1 screening approach, defined in EPRI NP-7148-SL and Section II.6.4.2 of the GIP, is an option for high capacity relays at Oconee Nuclear Station because the SSE site-specific spectrum is bounded by the GIP Bounding Spectrum. The Level 1 screening approach is applicable only for essential relays installed at 40 feet or less above effective grade as defined in the report entitled, "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report." Essential relays installed at these elevations are considered seismically adequate, provided one of the following is true:

1. The relay has a Peak Spectral Acceleration (PSA) capacity of 5g or higher and is mounted in an adequately anchored, conventional motor control center (MCC) or other similar enclosure, or
2. The relay has a PSA capacity of 8g or higher and is mounted in an adequately anchored, conventional switchgear enclosure, vertical control panel, bench board control panel, or other similar type of enclosure.

The relay evaluation assumes that such enclosures are adequately anchored, because the GIP requires a seismic walkdown, including an anchorage evaluation, of all enclosures containing essential relays. Therefore, the adequacy of the anchorage for these enclosures was verified by the seismic capability engineers during the seismic walkdown and if found to be inadequate, was declared as an outlier.

Level 2 Screening

The Level 2 screening approach, defined in EPRI NP-7148-SL and Section II.6.4.2 of the GIP involves establishing an in-cabinet seismic demand and comparing it to the seismic capacity of a specific relay type. Essential relays are seismically adequate if the seismic capacity of the relay exceeds the seismic demand for both the PEAK and ZPA regions of the demand spectra.

There are two methods for using the Level 2 screening approach. The first method is based on the Design Basis Earthquake (DBE) ground response spectrum. The second method is based on the in-structure or floor response spectra (IRS). The following describes the requirements for each method:

1. Method 1 - Ground Response Spectrum (*Alternate Method - Not Used*)

The applicable seismic demand at the floor for contact devices installed in enclosures with a natural frequency of 8 Hz or greater and located at 40 feet or less above effective grade is given below. This is the applicable floor demand for comparisons of GERS data for equipment such as metal-clad circuit breakers found in switchgear and motor starter contactors found in MCCs.

$$\text{Method 1 Floor Demand} = \text{DBE} \times 1.5 \times 1.5$$

The in-cabinet seismic demand for contact devices installed in enclosures with a natural frequency of 8 Hz or greater and located at 40 feet or less above effective grade is given by:

$$\text{Method 1 Cabinet Demand} = \text{Floor Demand} \times \text{AF} = \text{DBE} \times 1.5 \times 1.5 \times \text{AF}$$

where AF is the cabinet amplification factor.

Appendix I of EPRI NP-7148-SL provides guidelines for categorizing enclosures containing essential relays and defined an effective in-cabinet amplification factor for each category of enclosure. The following summarizes the generic in-cabinet amplification factors defined in Appendix I of EPRI NP-7148-SL. These factors were used to establish in-cabinet seismic demands for comparison with GERS data where cabinet specific response data are not available:

- AF = 7 for High Amplification Structures (e.g. switchgear enclosures);
- AF = 4.5 for Medium Amplification Structures (e.g. benchboards);
- AF = 3 for Low Amplification Structures (e.g. motor control centers).

2. Method 2 - Floor Response Spectra

For contact devices installed in enclosures where the seismic demand at the floor is given by the applicable in-structure or floor response spectra and the in-cabinet seismic demand is given by:

$$\text{Method 2 Floor Demand} = \text{IRS} \times \text{FS}$$

Method 2 Cabinet Demand = IRS x FS x AF

where: FS - is a factor of safety to account for uncertainties in the in-structure response spectra.

AF - is the cabinet amplification factor.

For Oconee Nuclear Station the in-structure response spectra are conservatively considered median-centered spectra. Therefore, FS = 1.5.

As a supplement to the GERS defined in Reference 6, GERS values developed under the industry sponsored Seismic Qualification Reporting and Testing Standardization (SQRSTS) program were also used where appropriate for capacity vs. demand screening.

Level 3 Screening (Not Used)

The Level 3 screening approach, defined in EPRI NP-7148-SL and Section II.6.4.2 of the GIP, is the same as the Level 2 screening approach except that instead of using a generic in-cabinet amplification factor, a specific in-cabinet response spectra is calculated. Essential relays are seismically adequate if the seismic capacity of the relay exceeds the seismic demand.

Level 4 Screening

The Level 4 screening approach, defined in EPRI NP-7148-SL and Section II.6.4.2 of the GIP, involves the use of formal seismic qualification methods specified in NRC-approved IEEE standards (e.g., IEEE 344-1975, -1987).

3.6 RELAY WALKDOWN

For resolution of Unresolved Safety Issue USI A-46, the GIP requires, in part, a plant walkdown of relays and their enclosures. The purpose of this walkdown is to :

1. Obtain, as necessary, information needed to determine cabinet types and cabinet-specific in-cabinet amplification factors for seismic capacity screening;
2. Verify the seismic adequacy of cabinets or enclosures which contain essential relays;
3. Spot-check mounting of essential relays to determine if they are mounted in accordance with manufacturers' recommendations.

Under the USI A-46 program, relay mountings are assumed to be in accordance with manufacturers' recommendations and plant documentation of relay types and locations is assumed to be accurate. The objective of the spot checks made during the relay walkdown was to confirm on a sample basis these assumptions. Other plant walkdowns, performed by the seismic capability engineers, collected the information needed for cabinet evaluations used in seismic capacity screening of relays and to verify the seismic adequacy of the cabinets and enclosures which support essential relays.

Table 3-1
Oconee Nuclear Station
Units 1, 2 & 3
Low Ruggedness Relays

Sorted by: Manufacturer + Model Number

Page 1 of 1

Relay ID	Manufacturer	Model No.
87BU1(X)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU1(Y)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU1(Z)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU2(X)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU2(Y)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU2(Z)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU3(X)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU3(Y)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87BU3(Z)	GENERAL-ELECTRIC	PVD11C11A (Low Ruggedness)
87T/CT4(X)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT4(Y)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT4(Z)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT5(X)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT5(Y)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT5(Z)	WESTINGHOUSE	HU (Low Ruggedness)
87T/CT1(X)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT1(Y)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT1(Z)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT2(X)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT2(Y)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT2(Z)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT3(X)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT3(Y)	WESTINGHOUSE	HU-1 (Low Ruggedness)
87T/CT3(Z)	WESTINGHOUSE	HU-1 (Low Ruggedness)

Section 4

SAFE SHUTDOWN EQUIPMENT

4.1 RELAY REVIEW SSEL

Safe Shutdown Functions and Path Selections are discussed in the "Oconee Nuclear Station, USI A-46 Seismic Evaluation Report" portion of this submittal.

Table 4-1 lists the SSEL equipment items requiring a relay review or required to support the relay review for Oconee Nuclear Station. Equipment on this list directed the relay reviewer to identify the essential and non-essential relays to be evaluated. The relay evaluation of each of these items is contained in Section 5 of this report.

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
05	0CCWPU0001	AUX SERVICE WATER PUMP	AB	771'+0"
05	0CCWPU0002	SSF AUX SERVICE WATER PUMP	SSF	754'+0"
05	0CCWPU0003	SSF HVAC COOLING WATER PUMP 1	SSF	754'+0"
05	0CCWPU0004	SSF HVAC COOLING WATER PUMP 2	SSF	754'+0"
05	0CCWPU0005	SSF DIESEL WATER JACKET PUMP	SSF	754'+0"
05	0HPSPU0001	HPSW STANDBY PUMP A	TB	775
05	0HPSPU0002	HPSW STANDBY PUMP B	TB	775
05	0HPSPU0003	HPSW JOCKEY PUMP	TB	775
20	0VSMN0001	CHLORINE DETECTOR MONITOR PANEL	AB	838'+0"
20	1&2POWDEXPANEL	1&2 POWDEX PANEL	TB	775'+0"
14	1A/1B/SW	1A/1B REG XFER SW	AB	796'+6"
14	1A/MCB	240/120V 1A REGULATOR OUTPUT BKR	AB	796'+6"
00	1A/REG	REGULATED PWR SUPP REG 1A	AB	796'+6"
20	1AB1	CONTROL BOARD 1AB1	AB	822
20	1AB3	CONTROL BOARD 1AB3	AB	822'+0"
20	1ADA	ISOL DIODE ASSEMBLY 1ADA	AB	796'+6"
20	1ADB	ISOL DIODE ASSEMBLY 1ADB	AB	796'+6"
20	1ADC	ISOL DIODE ASSEMBLY 1ADC	AB	796'+6"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	1ADD	ISOL DIODE ASSEMBLY 1ADD	AB	796'+6"
20	1ADE	ISOL DIODE ASSEMBLY 1ADE	AB	796'+6"
20	1ADF	ISOL DIODE ASSEMBLY 1ADF	AB	796'+6"
20	1ADG	ISOL DIODE ASSEMBLY 1ADG	AB	796'+6"
20	1ASP	AUX SHUTDOWN PANEL	TB	822'+0"
18	1ASPT0117P	AUX STEAM PRESSURE TRANSMITTER (MS-126 & MS-129)	TB	796'+6"
20	1AT3	AREA TERM CAB 1AT3	AB	809'+0"
20	1AT5	AREA TERM CAB 1AT5	AB	809'+0"
20	1AT8	AREA TERM CAB 1AT8	AB	809'+0"
18	1ATBOXEH	FWP 1A TERMINAL BOX EH	TB	775
20	1ATWSCP	U1 ATWS CONTROL PANEL	AB	838'+0"
14	1B	600V PPB 1B (FOR PZR HTR GROUP B BANK 2)	RB	818'+0"
14	1B/MCB	240/120V 1B REGULATOR OUTPUT BKR	AB	796'+6"
00	1B/REG	REGULATED PWR SUPP REG 1B	AB	796'+6"
18	1BSPS0018	RB PRESS SWITCH (ES CH 1A)	AB	809'+0"
18	1BSPS0019	RB PRESS SWITCH (ES CH 1A)	AB	809'+0"
18	1BSPS0020	RB PRESS SWITCH (ES CH 1B)	AB	809'+0"
18	1BSPS0021	RB PRESS SWITCH (ES CH 1B)	AB	809'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	1BSPS0022	RB PRESS SWITCH (ES CH 1C)	AB	809'+0"
18	1BSPS0023	RB PRESS SWITCH (ES CH 1C)	AB	809'+0"
18	1BSPT0004P	RB PRESS XMTR (ES CH 1A)	AB	809'+0"
18	1BSPT0005P	RB PRESS XMTR (ES CH 1B)	AB	809'+0"
18	1BSPT0006P	RB PRESS XMTR (ES CH 1C)	AB	809'+0"
08	1BSVA0001	RB SPRAY HEADER 1A ISOLATION	AB	809'+0"
08	1BSVA0002	RB SPRAY HEADER 1B ISOLATION	AB	809'+0"
08	1BSVA0003	RBS PUMP SUCTION ISOL	AB	758'+0"
08	1BSVA0004	RBS PUMP SUCTION ISOL	AB	758'+0"
18	1BTBOXEH	FWP 1B TERMINAL BOX EH	TB	775
14	1C	600V PPB 1C (FOR PRESSURIZER HEATERS RB GROUP C BANK 2)	RB	818'+0"
16	1CA/BC	CONTROL BATT CHGR 1CA	AB	796'+6"
20	1CAP	CHEMICAL ADDITION PANEL	AB	771'+0"
16	1CB/BC	CONTROL BATT CHGR 1CB	AB	796'+6"
21	1CCTK0001	COMPONENT COOLING SURGE TANK	AB	838'+0"
06	1CCWPU0001	CCW PUMP 1A	YD	810'+0"
06	1CCWPU0002	CCW PUMP 1B	YD	810'+0"
06	1CCWPU0003	CCW PUMP 1C	YD	810'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
06	1CCWPU0004	CCW PUMP 1D	YD	810'+0"
05	1CCWPU0024	EFWPT OIL COOLER PUMP	TB	775'+0"
08	1CCWVA0001	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0002	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0003	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0004	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0005	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0006	CCW EM DISCH ISOL	YD	796'+6"
08	1CCWVA0010	DISCH ISOL VALVE	YD	796'+6"
08	1CCWVA0011	DISCH ISOL VALVE	YD	796'+6"
08	1CCWVA0012	DISCH ISOL VALVE	YD	796'+6"
08	1CCWVA0013	DISCH ISOL VALVE	YD	796'+6"
08	1CCWVA0026	CCW VENT VALVE	YD	815
08	1CCWVA0027	CCW VENT VALVE	YD	796
08	1CCWVA0028	CCW VENT VALVE	YD	815
08	1CCWVA0029	CCW VENT VALVE	YD	796
08	1CCWVA0269	CROSSOVER ISOLATION TO A	AB	771'+0"
08	1CCWVA0287	SSF ISOL VALVE	SSF	754'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
21	1CFTK000A	CORE FLOOD TANK 1A	RB	797'+0"
21	1CFTK000B	CORE FLOOD TANK 1B	RB	818'+0"
18	1CLT0015A	UST 1B LEVEL	TB	838'+0"
18	1CLT0036	UST 1A LEVEL	TB	838'+0"
18	1CPS0015	UST MAKEUP LEVEL CONTROL (PS-15)	TB	838'+0"
18	1CPS0036	UST MAKEUP LEVEL CONTROL (PS-36)	TB	838'+0"
18	1CPS0227	CONDENSATE BOOSTER PUMP SUCTION HEADER PRESS LOW	TB	775'+0"
06	1CPU0010	HOTWELL PUMP 1A	TB	775'+0"
06	1CPU0011	HOTWELL PUMP 1B	TB	775'+0"
06	1CPU0012	HOTWELL PUMP 1C	TB	775'+0"
02	1CRDACBKRCAB	CRD SYSTEM AC BKR CAB	AB	809'+0"
20	1CRDDCBKRCAB	CRD SYSTEM DC BKR CAB	AB	809'+0"
08	1CSVA0005	QUENCH TANK DRAIN	RB	777'+6"
07	1CSVA0006	QUENCH TANK DRAIN	AB	758
08	1CVA0152	UST RISER ISOLATION	TB	775'+0"
08	1CVA0153	UST RISER ISOLATION	TB	822'+0"
08	1CVA0156	UST RISER ISOLATION	TB	822'+0"
08	1CVA0158	UST RISER ISOLATION	TB	822'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1CVA0160	UST SUPPLY ISOL TO TDEFWP	TB	775'+0"
07	1CVA0176	UST TO COND ISOL VALVE	TB	775'+0"
07	1CVA0187	UST TO COND ISOL VALVE	TB	771'+0"
07	1CVA0192	UST TO COND ISOL VALVE	TB	775'+0"
07	1CVA0225	POL DEMIN ISOL VALVE (BACKWASH INLET W/A VALVE)	TB	775'+0"
07	1CVA0232	POL DEMIN ISOL VALVE (DRAIN U/A VALVE)	TB	775'+0"
07	1CVA0233	POL DEMIN ISOL VALVE (BACKWASH INLET W/B VALVE)	TB	775'+0"
07	1CVA0237	POL DEMIN ISOL VALVE (DRAIN U/B VALVE)	TB	775'+0"
07	1CVA0240	POL DEMIN ISOL VALVE (BACKWASH INLET W/C VALVE)	TB	775'+0"
07	1CVA0244	POL DEMIN ISOL VALVE (DRAIN U/C VALVE)	TB	775'+0"
07	1CVA0247	POL DEMIN ISOL VALVE (BACKWASH INLET W/D VALVE)	TB	775'+0"
07	1CVA0251	POL DEMIN ISOL VALVE (DRAIN U/D VALVE)	TB	775'+0"
07	1CVA0254	POL DEMIN ISOL VALVE (BACKWASH INLET W/E VALVE)	TB	775'+0"
07	1CVA0258	POL DEMIN ISOL VALVE (DRAIN U/E VALVE)	TB	775'+0"
07	1CVA0262	SLURRY TANK ISOLATION VALVE (Z VALVE)	TB	775'+0"
07	1CVA0263	POL DEMIN ISOL VALVE (X VALVE)	TB	775'+0"
07	1CVA0264	SLURRY TANK ISOLATION VALVE (L VALVE)	TB	775'+0"
07	1CVA0265	SLURRY TANK ISOLATION VALVE (D VALVE)	TB	775'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	1CVA0267	POL DEMIN ISOL VALVE (VR VALVE)	TB	775'+0"
07	1CVA0268	POL DEMIN ISOL VALVE (QR VALVE)	TB	775'+0"
08	1CVA0391	HOTWELL SUPPLY ISOL TO TDEFW	TB	775'+0"
14	1D	600V PPB 1D (FOR PRESSURIZER HEATERS RB GROUP D BANK 2)	RB	818'+0"
01	1DCA	125V DC 1DCA	AB	796'+6"
01	1DCB	125V DC 1DCB	AB	796'+6"
16	1DIA/INV	120V STATIC INV 1DIA	AB	796'+6"
14	1DIA/PPB	125V PPB 1DIA	AB	809'+0"
16	1DIB/INV	120V STATIC INV 1DIB	AB	796'+6"
14	1DIB/PPB	125V PPB 1DIB	AB	809'+0"
16	1DIC/INV	120V STATIC INV 1DIC	AB	796'+6"
14	1DIC/PPB	125V PPB 1DIC	AB	809'+0"
16	1DID/INV	120V STATIC INV 1DID	AB	796'+6"
14	1DID/PPB	125V PPB 1DID	AB	809'+0"
14	1DL2/PPB	250V DC 1DL2 PPB	AB	796'+6"
01	1DP	125/250V DC 1DP	TB	796'+6"
20	1EB1	ELECTRICAL BOARD 1EB1	AB	822
20	1EB2	ELECTRICAL BOARD 1EB2	AB	822

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	1EB3	ELECTRICAL BOARD 1EB3	AB	822
20	1EB4	ELECTRICAL BOARD 1EB4	AB	822
20	1EF1	ELECTRICAL BOARD 1EF1	AB	822
20	1EF2	ELECTRICAL BOARD 1EF2	AB	822
20	1EHC1	EHC CAB 1EHC1	AB	809'+0"
20	1EHC2	EHC CAB 1EHC2	AB	809'+0"
20	1EHC3	EHC CAB 1EHC3	AB	809'+0"
20	1EHTC1	EHC TERM CAB 1EHTC1	AB	809'+0"
20	1EPSLP1	EPSL PANEL 1EPSLP1	AB	809'+0"
20	1EPSLP2	EPSL PANEL 1EPSLP2	AB	809'+0"
20	1ESFAS	ESFAS CABINETS	AB	822'+0"
20	1ESTC1	ESFAS ODD CH TERM CAB 1ESTC1	AB	809'+0"
20	1ESTC2	ESFAS EVEN CH TERM CAB 1ESTC2	AB	809'+0"
20	1ESTC2A	ESFAS AUX RLY CAB 1ESTC2A	AB	809'+0"
20	1ESTC3	ESFAS EVEN/ODD TERM CAB 1ESTC3	AB	809'+0"
00	1FDWFE0153	1A EFW HEADER FLOW	AB	783
00	1FDWFE0154	1B EFW HEADER FLOW	AB	796
18	1FDWFT0129	1A EFW HEADER FLOW	AB	775'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	1FDWFT0130	1B EFW HEADER FLOW	AB	796'+6"
18	1FDWFT0153	1A EFW HEADER FLOW TRANSMITTER	AB	783'+0"
18	1FDWFT0154	1B EFW HEADER FLOW TRANSMITTER	AB	783'+0"
18	1FDWLT0080	SG 1A LEVEL TRANSMITTER	RB	777'+0"
18	1FDWLT0081	SG 1B LEVEL TRANSMITTER	RB	777'+0"
18	1FDWLT0082	SG 1A LEVEL TRANSMITTER	RB	777'+0"
18	1FDWLT0083	SG 1B LEVEL TRANSMITTER	RB	777'+0"
18	1FDWLT008A	LOOP 2A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	1FDWLT010A	LOOP 2B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	1FDWLT051A	LOOP 3A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	1FDWLT052A	LOOP 3B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	1FDWPS0300	1EFPT LOW HYDRAULIC OIL PRESS SWITCH	TB	775'+0"
18	1FDWPS0386	MDEFWP 1A DISCH PRESS LOW	TB	775'+0"
18	1FDWPS0387	MDEFWP 1A DISCH PRESS LOW	TB	775'+0"
18	1FDWPS0388	FWPT 1B DISCH PRESS LOW	TB	775'+0"
18	1FDWPS0389	FWPT 1B DISCH PRESS LOW	TB	775'+0"
18	1FDWPS1009	MAIN FWP DISCH HDR PRESS SWITCH	TB	775'+0"
18	1FDWPS1010	MAIN FWP B DISCHARGE PRESSURE SWITCH	TB	775'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
05	1FDWPU0003	TDEFW PUMP	TB	775'+0"
05	1FDWPU0004	MDEFW PUMP 1A	TB	775'+0"
05	1FDWPU0005	MDEFW PUMP 1B	TB	775'+0"
08	1FDWVA0105	SG 1A SAMPLE ISOLATION	RB	797'+0"
07	1FDWVA0106	SG 1A SAMPLE ISOLATION	AB	809'+0"
08	1FDWVA0107	SG 1B SAMPLE ISOLATION	RB	797'+0"
07	1FDWVA0108	SG 1B SAMPLE ISOLATION	AB	809'+0"
07	1FDWVA0315	MDEFW PUMP 1A ISOLATION	AB	809'+0"
07	1FDWVA0316	MDEFW PUMP 1B ISOLATION	AB	809'+0"
08	1FDWVA0347	MDEFW PUMP 1B ISOLATION	AB	822'+0"
08	1FDWVA0368	TDEFWP HEADER 1A ISOLATION	TB	775'+0"
08	1FDWVA0369	TDEFWP HEADER 1B ISOLATION	TB	775'+0"
08	1FDWVA0372	MDEFW PUMP 1A ISOLATION	TB	775'+0"
08	1FDWVA0374	STARTUP HEADER ISOLATION	TB	775'+0"
08	1FDWVA0382	MDEFW PUMP 1B ISOLATION	TB	775'+0"
08	1FDWVA0384	STARTUP HEADER ISOLATION	TB	775'+0"
08	1GWDVA0012	QUENCH TANK VENT	RB	797'+6"
07	1GWDVA0013	QUENCH TANK VENT	AB	809

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	1HBP	UNIT 1 HEATER BLANKETING PANEL	TB	822'+0"
18	1HDPS0377	1ST STAGE RH PRESS SWITCH	TB	822'+0"
18	1HPIEP0002	1HP-31 VALVE POSITIONER (1HP11-E/P)	AB	775'+0"
18	1HPIFT0007A	HPI A TRAIN INJ FLOW TRANS	AB	758'+0"
18	1HPIFT0008A	HPI B TRAIN INJ FLOW TRANS	AB	758'+0"
18	1HPIFT0075	RCP SEAL INJ FLOW TRANSMITTER	AB	783'+0"
18	1HPIFT0101	RC PUMP SEAL INLET FLOW XMTR	AB	783'+0"
18	1HPIFT0102	RC PUMP SEAL INLET FLOW XMTR	AB	783'+0"
18	1HPIFT0103	RC PUMP SEAL INLET FLOW XMTR	AB	783'+0"
18	1HPIFT0104	RC PUMP SEAL INLET FLOW XMTR	AB	783'+0"
18	1HPIFT0160	B LOOP INJ FLOW TRANSMITTER	AB	809'+0"
18	1HPILT0033P1	LDST LEVEL #1	AB	771'+0"
18	1HPILT0033P2	LDST LEVEL #2	AB	771'+0"
00	1HPIPS0357	LETDOWN FLOW TEMP HIGH INTERLOCK	AB	783'+0"
06	1HPIPU0001	HPI PUMP 1A	AB	758'+0"
06	1HPIPU0002	HPI PUMP 1B	AB	758'+0"
06	1HPIPU0003	HPI PUMP 1C	AB	758'+0"
18	1HPISR0160	HPI CROSSOVER FLOW SQRT EXT B LOOP	AB	809'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1HPVA0003	LETDOWN ISOLATION	RB	777'+0"
08	1HPVA0004	LETDOWN ISOLATION	RB	777'+0"
07	1HPVA0005	LETDOWN ISOLATION	AB	809'+0"
08	1HPVA0020	RCP SEAL RETURN ISOLATION	RB	797'+6"
07	1HPVA0021	RCP SEAL RETURN ISOLATION	RB	809'+0"
07	1HPVA0022	LDST DRAIN	AB	783
08	1HPVA0023	HPI LDST SUCTION ISOLATION	AB	783
08	1HPVA0024	BWST SUCTION ISOLATION	AB	771'+0"
08	1HPVA0025	BWST SUCTION ISOLATION	AB	771'+0"
08	1HPVA0026	HPI TRAIN 1A INJECTION	AB	809'+0"
08	1HPVA0027	HPI TRAIN 1B (EMERGENCY) INJECTION	AB	809'+0"
07	1HPVA0031	RCP SEAL INJ FLOW CONTROL	AB	796'+6"
08	1HPVA0098	HPI SUCTION CROSSOVER	AB	758'+0"
08	1HPVA0115	HPI DISCH HEADER SEPARATION	AB	758'+0"
08	1HPVA0275	RCP SEAL RETURN ISOL VALVE	RB	797'+6"
08	1HPVA0276	RCP SEAL RETURN ISOL VALVE	RB	797'+6"
07	1HPVA0355	HPI AUX SPRAY THROTTLE	AB	809'+0"
08	1HPVA0405	ALT LETDOWN BOUNDARY	RB	777'+6"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1HPVA0409	HPI CROSSOVER ISOLATION	AB	809'+0"
08	1HPVA0410	HPI CROSSOVER ISOLATION	AB	809'+0"
08	1HPVA0417	ALT LETDOWN BOUNDARY	RB	777'+6"
08	1HPVA0426	ALT LETDOWN PATH ISOLATION	RB	777'+0"
08	1HPVA0428	ALT LETDOWN PATH ISOLATION	RB	777'+0"
20	1ICCM A	UNIT 1 ICCM TRAIN A CABINET	AB	822'+0"
20	1ICCM B	UNIT 1 ICCM TRAIN B CABINET	AB	822'+0"
20	1ICS	INTEGRATED CONTROL SYSTEM CABINETS	AB	822'+0"
14	1K	600V PPB 1K (FOR PRESSURIZER HEATERS GROUP K BANK 2)	RB	818'+0"
14	1KA	120V PPB 1KA	TB	775'+0"
14	1KC	120V PPB 1KC	TB	796'+6"
14	1KE	120V PPB 1KE	AB	796'+6"
20	1KESP	KEOWEE EM START PANEL	AB	809'+0"
14	1KG	120V PPB 1KG	AB	838'+0"
14	1KI	120V PPB 1KI	AB	809'+0"
16	1KI/INV	STATIC INVERTER 1KI (INCLUDES STATIC XFER SW)	AB	796'+6"
14	1KI/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 1KI	AB	796'+6"
14	1KI/SW/T	TRANSFER SWITCH 1KI	AB	796'+6"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	1KRA	120V PPB 1KRA	AB	809'+0"
14	1KSG	208/120V POWER PANELBOARD 1KSG	BH	796'+6"
14	1KU	120V PPB 1KU	AB	809'+0"
16	1KU/INV	STATIC INVERTER 1KU (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	1KU/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 1KU	AB	796'+6"
20	1KU/SW/T	TRANSFER SWITCH 1KU	AB	796'+6"
14	1KVIA	120V PPB 1KVIA	AB	809'+0"
14	1KVIB	120V PPB 1KVIB	AB	809'+0"
14	1KVIC	120V PPB 1KVIC	AB	809'+0"
14	1KVID	120V PPB 1KVID	AB	809'+0"
14	1KX	120V PPB 1KX	AB	809'+0"
16	1KX/INV	STATIC INVERTER 1KX (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	1KX/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 1KX	AB	796'+6"
20	1KX/SW/T	TRANSFER SWITCH 1KX	AB	796'+6"
14	1L2	120V PPB 1L2	AB	771'+0"
14	1L21/PPB	125V DC PPB 1L21	AB	822'+0"
18	1LPIFT0004P	LPI TRAIN 1B INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"
18	1LPIFT0005P	LPI TRAIN 1A INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
05	1LPIPU0001	1LPI PUMP A	AB	758'+0"
05	1LPIPU0002	1LPI PUMP B	AB	758'+0"
05	1LPIPU0003	1LPI PUMP C	AB	758'+0"
19	1LPITE0209	LPI COOLER 1B OUTLET TEMP (ICS INPUT)	AB	809'+0"
19	1LPITE0210	LPI COOLER 1A OUTLET TEMP (ICS INPUT)	AB	771'+0"
21	1LPITK0001	BWST	YD	796'+6"
18	1LPSEP0022	DECAY HEAT COOLER E/P CONVERTER (1LPSW-251)	TB	775'+0"
18	1LPSEP0023	DECAY HEAT COOLER E/P CONVERTER (1LPSW-252)	TB	775'+0"
18	1LPSFT0124	LPI COOLER 1A FLOW XMTR (1LPSW-251)	AB	771'+0"
18	1LPSFT0125	LPI COOLER 1B FLOW XMTR (1LPSW-252)	AB	771'+0"
18	1LPSPS0095	LPSW HEADER PRESSURE	TB	775'+0"
18	1LPSPS0096	LPSW HEADER PRESSURE	TB	775'+0"
05	1LPSPU0001	LPSW PUMP A	TB	775'+0"
05	1LPSPU0002	LPSW PUMP B	TB	775'+0"
05	1LPSPU0003	LPSW PUMP C	TB	775'+0"
08	1LPSVA0001	LPSW PUMP A SUCTION ISOL VALVE	TB	775'+0"
08	1LPSVA0002	LPSW PUMP B SUCTION ISOL VALVE	TB	775'+0"
08	1LPSVA0003	LPSW PUMP C SUCTION ISOL VALVE	TB	775'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1LPSVA0004	LPI COOLER 1A ISOLATION VALVE	AB	783'+0"
08	1LPSVA0005	LPI COOLER 1B ISOLATION VALVE	AB	783'+0"
08	1LPSVA0016	RBCU 1A SUPPLY VALVE	AB	809'+0"
08	1LPSVA0018	RBCU 1A RETURN VALVE	AB	809'+0"
08	1LPSVA0019	RBCU 1B SUPPLY VALVE	AB	809'+0"
08	1LPSVA0021	RBCU 1B RETURN VALVE	AB	809'+0"
08	1LPSVA0022	RBCU 1C SUPPLY VALVE	AB	809'+0"
08	1LPSVA0024	RBCU 1C RETURN VALVE	AB	809'+0"
08	1LPSVA0137	TDEFW ISOLATION VALVE	TB	775'+0"
8A	1LPSVA0139	NONESSENTIAL HEADER ISOLATION VALVE	TB	775'+0"
07	1LPSVA0251	LPI COOLER 1A CONTROL VALVE	TB	775'+0"
07	1LPSVA0252	LPI COOLER 1B CONTROL VALVE	TB	775'+0"
08	1LPSVA0284	CONT VAC PRIMING ISOL VALVE	TB	775'+0"
08	1LPSVA0290	CONT VAC PRIMING ISOL VALVE	TB	775'+0"
07	1LPSVA0516	EFW PUMP 1A LPSW ISOLATION VALVE	TB	775'+0"
07	1LPSVA0525	EFW PUMP 1B LPSW ISOLATION VALVE	TB	775'+0"
08	1LPSVA0565	RB AUX COOLERS SUPPLY VALVE	RB	797'+0"
08	1LPSVA0566	RBCU 3B INLET VALVE	RB	797'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1LPVA0001	LPI DROPLINE ISOL FROM RCS	RB	797'+6"
08	1LPVA0002	LPI DROPLINE ISOL FROM RCS	RB	797'+6"
08	1LPVA0003	LPI HOT LEG SUCTION	AB	809'+0"
08	1LPVA0005	LPI PUMP 1A SUCTION	AB	758'+0"
08	1LPVA0006	LPI SUCTION CROSSOVER	AB	758'+0"
08	1LPVA0007	LPI SUCTION CROSSOVER	AB	758'+0"
08	1LPVA0008	LPI PUMP 1B SUCTION	AB	758'+0"
08	1LPVA0009	LPI CROSSOVER	AB	758'+0"
08	1LPVA0010	LPI CROSSOVER	AB	758'+0"
08	1LPVA0011	LPI COOLER 1A ISOLATION	AB	771'+0"
08	1LPVA0012	LPI COOLER 1A ISOLATION	AB	771'+0"
08	1LPVA0013	LPI COOLER 3B ISOLATION	AB	771'+0"
08	1LPVA0014	LPI COOLER 1B ISOLATION	AB	771'+0"
08	1LPVA0015	LPI TO HPI/RBS PIGGYBACK TRAIN 1A	AB	771'+0"
08	1LPVA0016	LPI TO HPI/RBS PIGGYBACK TRAIN 1B	AB	771'+0"
08	1LPVA0017	LPI TRAIN 1A INJECTION ISOLATION	AB	809'+0"
08	1LPVA0018	LPI TRAIN 1B INJECTION ISOLATION	AB	809'+0"
08	1LPVA0019	RB EM SUMP SUCTION	AB	758'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1LPVA0020	RB EM SUMP SUCTION	AB	758'+0"
08	1LPVA0021	BWST SUCTION ISOLATION	AB	771'+0"
08	1LPVA0022	BWST SUCTION ISOLATION	AB	771'+0"
08	1LPVA0069	LPI SWITCHOVER FLOW CONTROL	AB	758'+0"
08	1LPVA0103	BORON DILUTION ISOLATION	RB	797'+6"
08	1LPVA0104	BORON DILUTION ISOLATION	RB	797'+6"
08	1LPVA0105	BORON DILUTION ISOLATION	RB	777'+6"
08	1LPVA0126	LPI POST ACCIDENT SAMPLE ISOL	AB	758'+0"
18	1MC-20	INSTRUMENT RACK 1MC-M20	TB	796'+6"
18	1MC-D24	INSTRUMENT RACK 1MC-D24	TB	775'+0"
18	1MC-E16	INSTRUMENT RACK 1MC-E16	TB	796'+6"
18	1MC-E25	INSTRUMENT RACK 1MC-E25	TB	775'+0"
18	1MC-F15	INSTRUMENT RACK 1MC-F15	TB	796'+6"
20	1MFBMRP	MAIN FDR BUS MONITOR RLY PANEL	AB	809'+0"
18	1MSPS0086	MAIN STEAM PRESS SWITCH (1MS-19)	TB	796'+6"
18	1MSPS0087	MAIN STEAM PRESS SWITCH (1MS-22)	TB	796'+6"
18	1MSPS0088	MAIN STEAM PRESS SWITCH (1MS-28)	TB	796'+6"
18	1MSPS0089	MAIN STEAM PRESS SWITCH (1MS-31)	TB	796'+6"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	1MSPT0024P	SG 1A PRESSURE	RB	825'+0"
18	1MSPT0025P	SG 1A PRESSURE	RB	825'+0"
18	1MSPT0026P	SG 1B PRESSURE	RB	825'+0"
18	1MSPT0027P	SG 1B PRESSURE	RB	825'+0"
00	1MSPY0042	UNIT 1 UPS (1MSSS0042 - 1MS-87)	AB	796'+6"
08	1MSVA0017	TURBINE BYPASS ISOLATION	TB	796'+6"
07	1MSVA0019	TURBINE BYPASS VALVE	TB	796'+6"
07	1MSVA0022	TURBINE BYPASS VALVE	TB	796'+6"
08	1MSVA0024	AS ISOLATION	TB	796'+6"
08	1MSVA0026	TURBINE BYPASS ISOLATION	TB	796'+6"
07	1MSVA0028	TURBINE BYPASS VALVE	TB	796'+6"
07	1MSVA0031	TURBINE BYPASS VALVE	TB	796'+6"
08	1MSVA0033	AS ISOLATION	TB	796'+6"
08	1MSVA0035	FWPT ISOLATION	TB	796'+6"
08	1MSVA0036	FWPT ISOLATION	TB	796'+6"
08	1MSVA0040	FWPT STOP VALVE	TB	775'+0"
08	1MSVA0043	FWPT STOP VALVE	TB	775'+0"
08	1MSVA0047	MS TO CSAE	TB	796'+6"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
 FOR RELAY REVIEW
 OCONEE NUCLEAR STATION
 Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1MSVA0076	MS RH ISOLATION	TB	796'+6"
08	1MSVA0077	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	1MSVA0078	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	1MSVA0079	MS RH ISOLATION	TB	796'+6"
08	1MSVA0080	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	1MSVA0081	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	1MSVA0082	TDEFW STEAM SUPPLY	TB	796'+6"
08	1MSVA0084	TDEFW STEAM SUPPLY	TB	796'+6"
07	1MSVA0087	TDEFW MS ISOLATION VALVE	TB	796'+6"
07	1MSVA0093	TDEFW MS ISOLATION VALVE	TB	775'+0"
07	1MSVA0094	EFW TURBINE STOP VALVE	TB	775'+0"
08	1MSVA0095	TDEFW CONTROL VALVE	TB	775'+0"
07	1MSVA0102	TURBINE STOP VALVE	TB	796'+6"
07	1MSVA0103	TURBINE STOP VALVE	TB	796'+6"
07	1MSVA0104	TURBINE STOP VALVE	TB	796'+6"
07	1MSVA0105	TURBINE STOP VALVE	TB	796'+6"
07	1MSVA0106	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	1MSVA0107	MAIN STEAM CONTROL VALVE	TB	796'+6"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	1MSVA0108	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	1MSVA0109	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	1MSVA0112	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
07	1MSVA0126	MS TO AS CONTROL VALVE	TB	796'+6"
07	1MSVA0129	MS TO AS CONTROL VALVE	TB	796'+6"
07	1MSVA0173	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
20	1MTC1	MISC TERM CAB 1MTC1	AB	809'+0"
20	1MTC2	MISC TERM CAB 1MTC2	AB	809'+0"
20	1MTC3	MISC TERM CAB 1MTC3	AB	809'+0"
20	1MTC4	MISC TERM CAB 1MTC4	AB	809'+0"
01	1MVC2	250V DC MCC 1MVC2	TB	775'+0"
01	1MVC3	250V DC MCC 1MVC3	TB	775'+0"
16	1PA/BC	PWR BATT CHGR 1PA	TB	796'+6"
18	1PAMLT0090	RB CONTAINMENT WATER LEVEL TRAIN A	RB	777'+0"
18	1PAMLT0091	RB CONTAINMENT WATER LEVEL TRAIN B	RB	777'+0"
20	1PASCP	POST ACCIDENT SAMPLE CONT PANEL (1RC-179)	AB	771'+0"
16	1PB/BC	PWR BATT CHGR 1PB	TB	796'+6"
18	1PIR	UNIT 1 PNEUMATIC INSTR RACK	AB	809'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	1PRVA0007	RB HYDROGEN PURGE INLET	RB	825
07	1PRVA0008	RB HYDROGEN PURGE INLET	AB	809
08	1PRVA0009	RB HYDROGEN PURGE OUTLET	RB	816'+9"
07	1PRVA0010	RB HYDROGEN PURGE OUTLET	AB	809
08	1PRVA0059	RB HYDROGEN PURGE INLET	RB	825
08	1PRVA0060	RB HYDROGEN PURGE OUTLET	RB	816'+9"
18	1PS155-1B/PS100-A	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	1PS156-1B/PS100-B	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	1PS157AB/PS101	LOW HYDRAULIC PRESSURE SWITCH	TB	775'+0"
18	1PS433/U1	HYDRAULIC PRESSURE SWITCH	TB	822
18	1PS434/U1	HYDRAULIC PRESSURE SWITCH	TB	822
09	1RBCAH0020A	RBCU FAN 1A	RB	825'+0"
09	1RBCAH0020B	RBCU FAN 1B	RB	825'+0"
09	1RBCAH0020C	RBCU FAN 1C	RB	825'+0"
00	1RBCDA000A	RBC DAMPER 1A	RB	825
00	1RBCDA000B	RBC DAMPER 1B	RB	825
00	1RBCDA000C	RBC DAMPER 1C	RB	825
00	1RCHE0002	U1 PRZ HEATERS BANK 2	RB	818

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
 FOR RELAY REVIEW
 OCONEE NUCLEAR STATION
 Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	1RCLT0004P1	PRZ LEVEL TRANSMITTER	RB	797'+0"
18	1RCLT0004P3	PRZ LEVEL TRANSMITTER	RB	797'+0"
18	1RCLT0123	1A RCS HOT LEG LVL (ICCM A)	RB	809'+0"
18	1RCLT0124	1B RCS HOT LEG LVL (ICCM B)	RB	809'+0"
18	1RCLT0125	RV HEAD LEVEL (ICCM A)	RB	809'+0"
18	1RCLT0126	RV HEAD LEVEL (ICCM B)	RB	809'+0"
18	1RCPS0364	RC PRESS SWITCH	RB	825'+0"
18	1RCPT0017P	RCS LOOP A PRESS TRANS	RB	825'+0"
18	1RCPT0021P	RC PRESS XMTR (ES CH A)	RB	825'+0"
18	1RCPT0022P	RC PRESS XMTR (ES CH B)	RB	825'+0"
18	1RCPT0023P	RC PRESS XMTR (ES CH C)	RB	825'+0"
18	1RCPT0166P	RCS LOOP B PRESS TRANS	RB	825'+0"
18	1RCPT0244	WR RCS PRESS TRAIN A (ICCM)	AB	809'+0"
18	1RCPT0245	WR RCS PRESS TRAIN B (ICCM)	AB	809'+0"
19	1RCRD0005B	A2 COLD LEG RTD	RB	797'+0"
19	1RCRD0006A	A1 COLD LEG RTD	RB	797'+0"
19	1RCRD0007B	B2 COLD LEG RTD	RB	797'+0"
19	1RCRD0008A	B1 COLD LEG RTD	RB	797'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
19	1RCRD0043A	PRZ RTD	RB	797'+0"
19	1RCRD0043B	PRZ RTD	RB	797'+0"
19	1RCRD0084B	A HOT LEG RTD	RB	844'+6"
19	1RCRD0085B	B HOT LEG RTD	RB	844'+6"
08	1RCVA0003	PRZ SPRAY ISOLATION	RB	850'+0"
08	1RCVA0004	PRZ PORV BLOCK VALVE	RB	850'+0"
08	1RCVA0005	PRZ STEAM SAMPLE ISOLATION	RB	797'+0"
08	1RCVA0006	PRZ WATER SAMPLE ISOLATION	RB	797'+0"
08	1RCVA0007	PRZ WATER SAMPLE ISOLATION	AB	809'+0"
08	1RCVA0066	PRZ PORV	RB	850'+0"
08	1RCVA0155	RCS HOT LEG 1A VENT	RB	825'+0"
08	1RCVA0157	RCS HOT LEG 1B VENT	RB	825'+0"
08	1RCVA0159	RV VENT ISOLATION	RB	844'+6"
08	1RCVA0160	RV VENT ISOLATION	RB	844'+6"
08	1RCVA0162	POST ACC SAMPLE PATH ISOL	RB	777'+0"
08	1RCVA0163	POST ACC SAMPLE PATH ISOL	RB	777'+0"
08	1RCVA0164	POST ACC SAMPLE PATH ISOL	AB	758'+0"
08	1RCVA0165	POST ACC SAMPLE PATH ISOL	AB	758'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	1RCVA0179	POST ACC SAMPLE THROTTLE	AB	758'+0"
20	1RPS	UNIT 1 RPS CABINETS	AB	822'+0"
14	1RSC-1CCW-287/ENCL	REMOTE STARTER ENCLOSURE FOR 1CCW-287	SSF	758'+0"
14	1RSC-1FDW-368/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-368	AB	809'+0"
14	1RSC-1FDW-369/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-369	AB	809'+0"
14	1RSC-1FDW-372/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-372	AB	809'+0"
14	1RSC-1FDW-374/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-374	AB	809'+0"
14	1RSC-1FDW-382/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-382	AB	809'+0"
14	1RSC-1FDW-384/ENCL	REMOTE STARTER ENCLOSURE FOR 1FDW-384	AB	809'+0"
14	1RSC-1HP-409/ENCL	REMOTE STARTER ENCLOSURE FOR 1HP-409	AB	796'+6"
14	1RSC-1HP-410/ENCL	REMOTE STARTER ENCLOSURE FOR 1HP-410	AB	796'+6"
14	1RSC-1LPSW-139/ENCL	REMOTE STARTER ENCLOSURE FOR 1LPSW-139	AB	796'+6"
14	1RSC-1LPSW-565/ENCL	REMOTE STARTER ENCLOSURE FOR 1LPSW-565	AB	796'+6"
14	1RSC-1LPSW-566/ENCL	REMOTE STARTER ENCLOSURE FOR 1LPSW-566	AB	796'+6"
14	1RSC-1PR-59/ENCL	REMOTE STARTER ENCLOSURE FOR 1PR-59	AB	809'+0"
14	1RSC-1PR-60/ENCL	REMOTE STARTER ENCLOSURE FOR 1PR-60	AB	809'+0"
20	1SCWP	UNIT 1 STATOR COOLING WATER PANEL	TB	775'+0"
21	1SFTK0002	INCORE INST HANDLING TANK	RB	825'+0"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	1SGFP	SG FWP PANEL	TB	775'+0"
20	1SGLC	STEAM GEN LOGIC CABINET	AB	809
14	1SKJ	120V PPB 1SKJ	AB	809'+0"
14	1SKK	120V PPB 1SKK	AB	809'+0"
14	1SKL	120V PPB 1SKL	AB	809'+0"
20	1SL-5	CRD SYSTEM LOGIC CAB 5	AB	809'+0"
20	1SL-6	CRD SYSTEM LOGIC CAB 6	AB	809'+0"
08	1SSHVA0001	STEAM SEAL HEADER ISOLATION	TB	796'+6"
08	1SSHVA0003	STEAM SEAL HEADER ISOLATION	TB	796'+6"
20	1TB-111	TERM BOX 111	YD	796'+6"
20	1TB-112	TERM BOX 112	YD	796'+6"
20	1TBATWS1	ATSW TERM BOX 1	AB	809'+0"
20	1TBATWS2	ATSW TERM BOX 2	AB	809'+0"
03	1TC	4KV SWGR 1TC	TB	796'+6"
20	1TCPA	TURB CONT PANEL 1TCPA	TB	796'+6"
03	1TD	4KV SWGR 1TD	TB	796'+6"
20	1TDC3	TRANSDUCER CAB 1TDC3	AB	809'+0"
03	1TE	4KV SWGR 1TE	TB	796'+6"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	1TE1602(Typical)	CORE EXIT THERMOCOUPLE 1TE1602	RB	---
05	1TOPU0022	EFWPT AUX OIL PUMP	TB	775'+0"
20	1TTC6	TURB TERM CAB 1TTC6	TB	796'+6"
20	1UB1	CONTROL BOARD 1UB1	AB	822'+0"
20	1UB2	CONTROL BOARD 1UB2	AB	822
20	1VB1	CONTROL BOARD 1VB1	AB	822'+0"
20	1VB2	CONTROL BOARD 1VB2	AB	822'+0"
20	1VB3	CONTROL BOARD 1VB3	AB	822'+0"
10	1VSAH-B1T-EV-A	B1T & B2T ENCLOSURE VENT FAN A	BH	796'+6"
10	1VSAH-B1T-EV-B	B1T & B2T ENCLOSURE VENT FAN B	BH	796'+6"
10	1VSAH-CT4-EV-A	CT4 ENCLOSURE VENT FAN A	BH	796'+6"
10	1VSAH-CT4-EV-B	CT4 ENCLOSURE VENT FAN B	BH	796'+6"
10	1VSAH0011	AHU-11	AB	838'+0"
10	1VSAH0012	AHU-12	AB	838'+0"
09	1VSAH0026	OUTSIDE AIR BOOSTER FAN 'A' (F-22)	AB	838'+0"
09	1VSAH0027	OUTSIDE AIR BOOSTER FAN 'B'(F-23)	AB	838'+0"
08	1VVA0186	COND VACUUM BREAKER	TB	796'+6"
02	1X01	600V LC 1X01	TB	796'+6"

Table 4-1-O1

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
 FOR RELAY REVIEW
 OCONEE NUCLEAR STATION
 Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
02	1X02	600V LC 1X02	TB	796'+6"
02	1X04	600V LC 1X04	TB	796'+6"
02	1X05	600V LC 1X05	TB	796'+6"
02	1X06	600V LC 1X06	TB	796'+6"
02	1X07	600V LC 1X07	TB	796'+6"
02	1X08	600V LC 1X08	AB	796'+6"
02	1X09	600V LC 1X09	AB	796'+6"
01	1XA	MCC 1XA	TB	796'+6"
01	1XA-A	208V MCC 1XA-A	TB	796'+6"
01	1XB	600V MCC 1XB	TB	775'+0"
01	1XC	MCC 1XC	TB	775'+0"
01	1XGA	1XGA	TB	796'+6"
01	1XGB	MCC 1XGB	TB	796'+6"
01	1XI(600V)	600V MCC 1XI	AB	809'+0"
01	1XJ(600V)	600V MCC 1XJ	AB	809'+0"
01	1XK	600V MCC 1XK	AB	809'+0"
01	1XL	MCC 1XL	AB	771'+0"
01	1XN	MCC 1XN	AB	771'+0"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
01	IXO	MCC IXO	AB	796'+6"
01	IXP	MCC IXO	AB	796'+6"
01	IXR	MCC IXR	AB	838'+0"
01	IXS1	MCC IXS1	AB	796'+6"
01	IXS2	MCC IXS2	AB	796'+6"
01	IXS3	MCC IXS3	AB	796'+6"
01	IXSF(208V)	MCC IXSF(208V)	SSF	817
01	IXSF(600V)	MCC IXSF(600V)	SSF	817
01	IXSF-1(208V)	MCC IXSF-1 (208V)	SSF	797'+0"
10	AHU11&12CONPNL	AIR HANDLING UNITS 11 & 12 CONTROL PANEL	AB	838'+0"
02	ASWS	AUX SERV WATER SWGR (4160V) (1TD-0)	AB	771'+0"
03	B1T	4KV SWGR B1T	BH	796'+6"
03	B2T	4KV SWGR B2T	BH	796'+6"
08	CCWVA0008	EM DISCHARGE VALVE	YD	796'+6"
04	CT-1	XFMR CT-1	YD	796'+6"
04	CT-4	XFMR CT-4	YD	796'+6"
04	CT-5	XFMR CT-5	YD	796'+6"
14	CT4FSC	CT4 FAN SPEED CABINET	BH	796'+6"

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	EHT-2/U1	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	EHT-4/U1	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	EHT-6/U1	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
14	KSFC/PPB	120V PPB KSFC	SSF	777'+0"
18	MS-HLT-1/U1	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-2/U1	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-3/U1	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-4/U1	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	NI/U1	UNIT 1 NUCLEAR INSTRUMENTATION	RB	N/A
20	PHC/SSF	PZR HEATER CAB (SSF)	SSF	777'+0"
18	PS11/U1(1PS135)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	PS12/U1(1PS136)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	RPIAMP-A01/U1(Typical)	ROD POSITION AMPLIFIER A01	AB	809'+0"
14	RSC-1KSG-01/ENCL	REMOTE STARTER CABINET FOR 1KSG-01	BH	796'+6"
14	RSC-1KSG-02/ENCL	REMOTE STARTER CABINET FOR 1KSG-02	BH	796'+6"
14	RSC-1KSG-03/ENCL	REMOTE STARTER CABINET FOR 1KSG-03	BH	796'+6"
14	RSC-1KSG-04/ENCL	REMOTE STARTER CABINET FOR 1KSG-04	BH	796'+6"
20	SSF/IC1	SSF EOC SYS INTERCONN CAB IC1	SSF	797

Table 4-1-01

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
 FOR RELAY REVIEW
 OCONEE NUCLEAR STATION
 Unit 1 + Shared Equipment

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	SSF/IC2	SSF EOC SYS INTERCONN CAB IC2	SSF	797
20	SSFCP	SSF CONTROL PANEL	SSF	797'+0"
18	TWS11/U1	THRUST BEARING WEAR DETECTOR SWITCH TURBINE END	TB	822
18	TWS12/U1	THRUST BEARING WEAR DETECTOR SWITCH GENERATOR END	TB	822
01	XOD1(208V)	208V MCC XOD1	YD	796'+6"
01	XOD2A(208V)	208V MCC XOD2A	YD	796'+6"
01	XSF(600V)	MCC XSF(600V)	SSF	777'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2A/2B/SW	2A/2B REG XFER SW	AB	796'+6"
14	2A/MCB	240/120V 2A REGULATOR OUTPUT BKR	AB	796'+6"
00	2A/REG	REGULATED PWR SUPP REG 2A	AB	796'+6"
20	2AB1	CONTROL BOARD 2AB1	AB	822'+0"
20	2AB3	CONTROL BOARD 2AB3	AB	822'+0"
20	2ADA	ISOL DIODE ASSEMBLY 2ADA	AB	796'+6"
20	2ADB	ISOL DIODE ASSEMBLY 2ADB	AB	796'+6"
20	2ADC	ISOL DIODE ASSEMBLY 2ADC	AB	796'+6"
20	2ADD	ISOL DIODE ASSEMBLY 2ADD	AB	796'+6"
20	2ADE	ISOL DIODE ASSEMBLY 2ADE	AB	796'+6"
20	2ADF	ISOL DIODE ASSEMBLY 2ADF	AB	796'+6"
20	2ADG	ISOL DIODE ASSEMBLY 2ADG	AB	796'+6"
20	2ASP	AUX SHUTDOWN PANEL	TB	822'+0"
18	2ASPT0117P	AUX STEAM PRESSURE TRANSMITTER (MS-126 & MS-129)	TB	796'+6"
20	2AT3	AREA TERM CAB 2AT3	AB	809'+0"
20	2AT8	AREA TERM CAB 2AT8	AB	809'+0"
18	2ATBOXEH	FWP 2A TERMINAL BOX EH	TB	775
20	2ATWSCP	U2 ATWS CONTROL PANEL	AB	838'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2B	600V PPB 2B (FOR PRESSURIZER HEATERS GROUP 2B BANK 2)	RB	800'+0"
14	2B/MCB	240/120V 2B REGULATOR OUTPUT BKR	AB	796'+6"
00	2B/REG	REGULATED PWR SUPP REG 2B	AB	796'+6"
18	2BSPS0018	RB PRESS SWITCH (ES CH 2A)	AB	809'+0"
18	2BSPS0019	RB PRESS SWITCH (ES CH 2A)	AB	809'+0"
18	2BSPS0020	RB PRESS SWITCH (ES CH 2B)	AB	809'+0"
18	2BSPS0021	RB PRESS SWITCH (ES CH 2B)	AB	809'+0"
18	2BSPS0022	RB PRESS SWITCH (ES CH 2C)	AB	809'+0"
18	2BSPS0023	RB PRESS SWITCH (ES CH 2C)	AB	809'+0"
18	2BSPT0004P	RB PRESS XMTR (ES CH 2A)	AB	809'+0"
18	2BSPT0005P	RB PRESS XMTR (ES CH 2B)	AB	809'+0"
18	2BSPT0006P	RB PRESS XMTR (ES CH 2C)	AB	809'+0"
08	2BSVA0001	RB SPRAY HEADER 2A ISOLATION	AB	809'+0"
08	2BSVA0002	RB SPRAY HEADER 2B ISOLATION	AB	809'+0"
08	2BSVA0003	RBS PUMP SUCTION ISOL	AB	758'+0"
08	2BSVA0004	RBS PUMP SUCTION ISOL	AB	758'+0"
18	2BTBOXEH	FWP 2B TERMINAL BOX EH	TB	775
14	2C	600V PPB 2C (FOR PRESSURIZER HEATERS GROUP 2C BANK 2)	RB	818'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
16	2CA/BC	CONTROL BATT CHGR 2CA	AB	796'+6"
20	2CAP	CHEMICAL ADDITION PANEL	AB	771'+0"
16	2CB/BC	CONTROL BATT CHGR 2CB	AB	796'+6"
21	2CCTK0001	COMP COOLING SURGE TANK	AB	838'+0"
05	2CCWPU0024	EFWPT OIL COOLER PUMP	TB	775'+0"
08	2CCWVA0010	DISCH ISOL VALVE	YD	796'+6"
08	2CCWVA0011	DISCH ISOL VALVE	YD	796'+6"
08	2CCWVA0012	DISCH ISOL VALVE	YD	796'+6"
08	2CCWVA0013	DISCH ISOL VALVE	YD	796'+6"
08	2CCWVA0026	CCW VENT VALVE	YD	796'
08	2CCWVA0027	CCW VENT VALVE	YD	796'
08	2CCWVA0028	CCW VENT VALVE	YD	796'
08	2CCWVA0029	CCW VENT VALVE	YD	796'
08	2CCWVA0269	CROSSOVER ISOLATION TO A	AB	771'+0"
08	2CCWVA0287	SSF ISOL VALVE	SSF	754'+0"
21	2CFTK000A	CORE FLOOD TANK 2A	RB	797'+0"
21	2CFTK000B	CORE FLOOD TANK 2B	RB	818'+0"
18	2CLT0015A	UST 2B LEVEL	TB	838'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2CLT0036	UST 2A LEVEL	TB	838'+0"
18	2CPS0015	UST MAKEUP LEVEL CONTROL (PS-15)	TB	838'+0"
18	2CPS0036	UST MAKEUP LEVEL CONTROL (PS-36)	TB	838'+0"
18	2CPS0227	CONDENSATE BOOSTER PUMP SUCTION HEADER PRESS LOW	TB	775'+0"
06	2CPU0010	HOTWELL PUMP 2A	TB	775'+0"
06	2CPU0011	HOTWELL PUMP 2B	TB	775'+0"
06	2CPU0012	HOTWELL PUMP 2C	TB	775'+0"
02	2CRDACBKRCAB	CRD SYSTEM AC BKR CAB	AB	809'+0"
20	2CRDDCBKRCAB	CRD SYSTEM DC BKR CAB	AB	809'+0"
08	2CSVA0005	QUENCH TANK DRAIN	RB	777'+6"
07	2CSVA0006	QUENCH TANK DRAIN	AB	758
08	2CVA0152	UST RISER ISOLATION	TB	777
08	2CVA0153	UST RISER ISOLATION	TB	777
08	2CVA0156	UST RISER ISOLATION	TB	777
08	2CVA0158	UST RISER ISOLATION	TB	777
08	2CVA0160	UST SUPPLY ISO TO TDEFWP	TB	777
07	2CVA0176	UST TO COND ISOL VALVE	TB	775'+0"
07	2CVA0187	UST TO COND ISOL VALVE	TB	775'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	2CVA0192	UST TO COND ISOL VALVE	TB	775'+0"
07	2CVA0225	POL DEMIN ISOL VALVE (BACKWASH INLET W/A VALVE)	TB	777
07	2CVA0232	POL DEMIN ISOL VALVE (DRAIN U/A VALVE)	TB	777
07	2CVA0233	POL DEMIN ISOL VALVE (BACKWASH INLET W/B VALVE)	TB	777
07	2CVA0237	POL DEMIN ISOL VALVE (DRAIN U/B VALVE)	TB	777
07	2CVA0240	POL DEMIN ISOL VALVE (BACKWASH INLET W/C VALVE)	TB	777
07	2CVA0244	POL DEMIN ISOL VALVE (DRAIN U/C VALVE)	TB	777
07	2CVA0247	POL DEMIN ISOL VALVE (BACKWASH INLET W/D VALVE)	TB	777
07	2CVA0251	POL DEMIN ISOL VALVE (DRAIN U/D VALVE)	TB	777
07	2CVA0254	POL DEMIN ISOL VALVE (BACKWASH INLET W/E VALVE)	TB	777
07	2CVA0258	POL DEMIN ISOL VALVE (DRAIN U/E VALVE)	TB	777
07	2CVA0262	SLURRY TANK ISOLATION VALVE (Z VALVE)	TB	777
07	2CVA0263	POL DEMIN ISOL VALVE (X VALVE)	TB	777
07	2CVA0264	SLURRY TANK ISOLATION VALVE (L VALVE)	TB	777
07	2CVA0265	SLURRY TANK ISOLATION VALVE (D VALVE)	TB	777
07	2CVA0267	POL DEMIN ISOL VALVE (VR VALVE)	TB	777
07	2CVA0268	POL DEMIN ISOL VALVE (QR VALVE)	TB	777
08	2CVA0391	HOTWELL SUPPLY ISOL TO TDEFW	TB	775'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2D	600V PPB 2D (FOR PRESSURIZER HEATERS RB GROUP 2D BANK 2)	RB	818'+0"
01	2DCA	125V DC 2DCA	AB	796'+6"
01	2DCB	125V DC 2DCB	AB	796'+6"
16	2DIA/INV	120V STATIC INV 2DIA	AB	796'+6"
14	2DIA/PPB	125V DC PPB 2DIA	AB	809'+0"
16	2DIB/INV	120V STATIC INV 2DIB	AB	796'+6"
14	2DIB/PPB	125V DC PPB 2DIB	AB	809'+0"
16	2DIC/INV	120V STATIC INV 2DIC	AB	796'+6"
14	2DIC/PPB	125V DC PPB 2DIC	AB	809'+0"
16	2DID/INV	120V STATIC INV 2DID	AB	796'+6"
14	2DID/PPB	125V DC PPB 2DID	AB	809'+0"
14	2DL2/PPB	250V DC PPB 2DL2	AB	796'+6"
01	2DP	125/250V DC 2DP	TB	796'+6"
20	2EB1	ELECTRICAL BOARD 2EB1	AB	822
20	2EB2	ELECTRICAL BOARD 2EB2	AB	822
20	2EB3	ELECTRICAL BOARD 2EB3	AB	822
20	2EB4	ELECTRICAL BOARD 2EB4	AB	822
20	2EF1	ELECTRICAL BOARD 2EF1	AB	822

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	2EF2	ELECTRICAL BOARD 2EF2	AB	822
20	2EHC1	EHC CAB 2EHC1	AB	809'+0"
20	2EHC2	EHC CAB 2EHC2	AB	809'+0"
20	2EHC3	EHC CAB 2EHC3	AB	809'+0"
20	2EHTC1	EHC TERM CAB 2EHTC1	AB	809'+0"
20	2EHTC2	EHC TERM CAB 2EHTC2	AB	809'+0"
20	2EPSLP1	EPSL PANEL 2EPSLP1	AB	809'+0"
20	2EPSLP2	EPSL PANEL 2EPSLP2	AB	809'+0"
20	2ESFAS	UNIT 2 ESFAS CABINETS	AB	822'+0"
20	2ESTC1	ESFAS ODD CH TERM CAB 2ESTC1	AB	809'+0"
20	2ESTC2	ESFAS EVEN CH TERM CAB 2ESTC2	AB	809'+0"
20	2ESTC2A	ESFAS AUX RLY CAB 2ESTC2A	AB	809'+0"
20	2ESTC3	ESFAS EVEN/ODD TERM CAB 2ESTC3	AB	809'+0"
00	2FDWFE0153	2A EFW HEADER FLOW	AB	783
00	2FDWFE0154	2B EFW HEADER FLOW	AB	783
18	2FDWFT0129	2A EFW HEADER FLOW	AB	775'+0"
18	2FDWFT0130	2B EFW HEADER FLOW	AB	775'+0"
18	2FDWFT0153	2A EFW HEADER FLOW TRANSMITTER	AB	783'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 2

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2FDWFT0154	2B EFW HEADER FLOW TRANSMITTER	AB	783'+0"
18	2FDWLT0080	SG 2A LEVEL TRANSMITTER	RB	777'+0"
18	2FDWLT0081	SG 2B LEVEL TRANSMITTER	RB	777'+0"
18	2FDWLT0082	SG 2A LEVEL TRANSMITTER	RB	777'+0"
18	2FDWLT0083	SG 2B LEVEL TRANSMITTER	RB	777'+0"
18	2FDWLT008A	LOOP 2A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	2FDWLT010A	LOOP 2B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	2FDWLT051A	LOOP 3A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	2FDWLT052A	LOOP 3B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	2FDWPS0300	2EFPT LOW HYDRAULIC OIL PRESS SWITCH	TB	775'+0"
18	2FDWPS0386	MDEFWP 2A DISCH PRESS SWITCH	TB	775'+0"
18	2FDWPS0387	MDEFWP 2A DISCH PRESS SWITCH	TB	775'+0"
18	2FDWPS0388	FWPT 2B DISCH PRESS LOW	TB	775'+0"
18	2FDWPS0389	FWPT 2B DISCH PRESS LOW	TB	775'+0"
18	2FDWPS1009	MAIN FWP DISCH PRESS SWITCH (2MS-93)	TB	775'+0"
18	2FDWPS1010	MAIN FWP DISCH PRESS SWITCH (2MS-93)	TB	775'+0"
05	2FDWPU0003	TDEFW PUMP	TB	775'+0"
05	2FDWPU0004	MDEFW PUMP 2A	TB	775'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
05	2FDWPU0005	MDEFW PUMP 2B	TB	775'+0"
08	2FDWVA0105	SG 2A SAMPLE ISOLATION	RB	797'+0"
07	2FDWVA0106	SG 2A SAMPLE ISOLATION	AB	809'+0"
08	2FDWVA0107	SG 2B SAMPLE ISOLATION	RB	797'+0"
07	2FDWVA0108	SG 2B SAMPLE ISOLATION	AB	809'+0"
07	2FDWVA0315	MDEFW PUMP 2A ISOLATION	AB	809'+0"
07	2FDWVA0316	MDEFW PUMP 2B ISOLATION	AB	809'+0"
08	2FDWVA0347	MDEFW PUMP 2B ISOLATION	AB	825'+0"
08	2FDWVA0368	TDEFW TO HEADER A	TB	775'+0"
08	2FDWVA0369	TDEFW TO HEADER B	TB	775'+0"
08	2FDWVA0372	MDEFW PUMP 2A ISOLATION	TB	775'+0"
08	2FDWVA0374	STARTUP HEADER ISOL	TB	775'+0"
08	2FDWVA0382	MDEFW PUMP 2B ISOLATION	TB	775'+0"
08	2FDWVA0384	STARTUP HEADER ISOL	TB	775'+0"
08	2GWDVA0012	QUENCH TANK VENT	RB	797'+6"
07	2GWDVA0013	QUENCH TANK VENT	AB	809
20	2HBP	UNIT 2 HEATER BLANKETING PANEL	TB	822'+0"
18	2HDPS0377	1ST STAGE RH PRESS SWITCH	TB	822'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2HPIEP0002	RCP SEAL INJECTION FLOW	AB	775'+0"
18	2HPIFT0007A	HPI A TRAIN INJ FLOW TRANSMITTER	AB	758'+0"
18	2HPIFT0008A	HPI B TRAIN INJ FLOW TRANSMITTER	AB	758'+0"
18	2HPIFT0075	RCP SEAL INJ FLOW TRANSMITTER	AB	783'+0"
18	2HPIFT0101	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	2HPIFT0102	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	2HPIFT0103	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	2HPIFT0104	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	2HPIFT0160	B LOOP INJ FLOW TRANSMITTER	AB	809'+0"
18	2HPILT0033P1	LDST LEVEL #1	AB	771'+0"
18	2HPILT0033P2	LDST LEVEL #2	AB	771'+0"
00	2HPIPS0357	LETDOWN FLOW TEMP HIGH INTERLOCK	AB	783'+0"
06	2HPIPU0001	HPI PUMP 2A	AB	758'+0"
06	2HPIPU0002	HPI PUMP 2B	AB	758'+0"
06	2HPIPU0003	HPI PUMP 2C	AB	758'+0"
08	2HPVA0003	LETDOWN ISOLATION	RB	777'+0"
08	2HPVA0004	LETDOWN ISOLATION	RB	777'+0"
07	2HPVA0005	LETDOWN ISOLATION	AB	809'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	2HPVA0020	RCP SEAL RETURN ISOLATION	RB	797'+0"
07	2HPVA0021	RCP SEAL RETURN ISOLATION	RB	809'+0"
07	2HPVA0022	LDST DRAIN	AB	783
08	2HPVA0023	HPI LDST SUCTION ISOLATION	AB	783
08	2HPVA0024	BWST SUCTION ISOLATION	AB	771'+0"
08	2HPVA0025	BWST SUCTION ISOLATION	AB	771'+0"
08	2HPVA0026	HPI TRAIN 2A INJECTION	AB	809'+0"
08	2HPVA0027	HPI TRAIN 2B (EMERGENCY) INJECTION	AB	809'+0"
07	2HPVA0031	RCP SEAL INJ FLOW CONTROL	AB	796'+6"
08	2HPVA0098	HPI SUCTION CROSSOVER	AB	758'+0"
08	2HPVA0115	HPI DISCH HEADER SEPARATION	AB	758'+0"
07	2HPVA0355	HPI AUX SPRAY THROTTLE	AB	809'+0"
08	2HPVA0405	ALT LETDOWN BOUNDARY	RB	777'+6"
08	2HPVA0409	HPI CROSSOVER ISOLATION	AB	809'+0"
08	2HPVA0410	HPI CROSSOVER ISOLATION	AB	809'+0"
08	2HPVA0417	ALT LETDOWN BOUNDARY	RB	777'+0"
08	2HPVA0426	ALT LETDOWN PATH ISOLATION	RB	777'+0"
08	2HPVA0428	ALT LETDOWN PATH ISOLATION	RB	777'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	2ICCMA	UNIT 2 ICCM TRAIN A CABINET	AB	822'+0"
20	2ICCMB	UNIT 2 ICCM TRAIN B CABINET	AB	822'+0"
20	2ICS	INTEGRATED CONTROL SYSTEM CABINETS	AB	822'+0"
14	2KA	120V PPB 2KA	TB	775'+0"
14	2KB	120V PPB 2KB	TB	796'+6"
14	2KC	120V PPB 2KC	TB	796'+6"
14	2KD	120V PPB 2KD	AB	809'+0"
20	2KESP	KEOWEE EM START PANEL	AB	809'+0"
14	2KI	120V PPB 2KI	AB	809'+0"
16	2KI/INV	STATIC INVERTER 2KI (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	2KI/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 2KI	AB	796'+6"
20	2KI/SW/T	TRANSFER SWITCH 2KI	AB	796'+6"
14	2KM	120V PPB 2KM	AB	809'+0"
14	2KRA	120V PPB 2KRA	AB	809'+0"
14	2KU	120V PPB 2KU	AB	809'+0"
16	2KU/INV	STATIC INVERTER 2KU (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	2KU/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 2KU	AB	796'+6"
20	2KU/SW/T	TRANSFER SWITCH 2KU	AB	796'+6"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2KVIA	120V PPB 2KVIA	AB	809'+0"
14	2KVIB	120V PPB 2KVIB	AB	809'+0"
14	2KVIC	120V PPB 2KVIC	AB	809'+0"
14	2KVID	120V PPB 2KVID	AB	809'+0"
14	2KX	120V PPB 2KX	AB	809'+0"
16	2KX/INV	STATIC INVERTER 2KX (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	2KX/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 2KX	AB	796'+6"
20	2KX/SW/T	TRANSFER SWITCH 2KX	AB	796'+6"
14	2L21/PPB	125V DC PPB 2L21	AB	822'+0"
18	2LPIFT0004P	LPI TRAIN 2B INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"
18	2LPIFT0005P	LPI TRAIN 2A INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"
05	2LPIPU0001	2LPI PUMP A	AB	758'+0"
05	2LPIPU0002	LPI PUMP 2B	AB	758'+0"
05	2LPIPU0003	2LPI PUMP C	AB	758'+0"
19	2LPITE0209	LPI COOLER 2B OUTLET TEMP (ICS INPUT)	AB	809'+0"
19	2LPITE0210	LPI COOLER 2A OUTLET TEMP (ICS INPUT)	AB	809'+0"
21	2LPITK0001	BWST	YD	796'+6"
18	2LPSEP0022	DECAY HEAT COOLER E/P CONVERTER (2LPSW-251)	TB	775'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2LPSEP0023	DECAY HEAT COOLER E/P CONVERTER (2LPSW-252)	TB	775'+0"
18	2LPSFT0124	LPI COOLER 2A FLOW XMTR (2LPSW-251)	AB	771'+0"
18	2LPSFT0125	LPI COOLER 2B FLOW XMTR (2LPSW-252)	AB	771'+0"
08	2LPSVA0004	LPI COOLER 2A ISOLATION VALVE	AB	783'+0"
08	2LPSVA0005	LPI COOLER 2B ISOLATION VALVE	AB	783'+0"
08	2LPSVA0016	RBCU 2A SUPPLY VALVE	AB	822'+0"
08	2LPSVA0018	RBCU 2A RETURN VALVE	AB	809'+0"
08	2LPSVA0019	RBCU 2B SUPPLY VALVE	AB	809'+0"
08	2LPSVA0021	RBCU 2B RETURN VALVE	AB	809'+0"
08	2LPSVA0022	RBCU 2C SUPPLY VALVE	AB	809'+0"
08	2LPSVA0024	RBCU 2C RETURN VALVE	AB	809'+0"
08	2LPSVA0137	TDEFW ISOLATION VALVE	TB	775'+0"
8A	2LPSVA0139	NONESSENTIAL HEADER ISOLATION VALVE	TB	775'+0"
07	2LPSVA0251	LPI COOLER 2A CONTROL VALVE	TB	775'+0"
07	2LPSVA0252	LPI COOLER 2B CONTROL VALVE	TB	775'+0"
07	2LPSVA0516	EFW PUMP 2A LPSW ISOLATION VALVE	TB	775'+0"
07	2LPSVA0525	EFW PUMP 2B LPSW ISOLATION VALVE	TB	775'+0"
08	2LPSVA0565	RB AUX COOLERS SUPPLY VALVE	RB	825'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	2LPSVA0566	RBCU 3B INLET VALVE	RB	797'+0"
08	2LPVA0001	LPI DROPLINE ISOL FROM RCS	RB	797'+0"
08	2LPVA0002	LPI DROPLINE ISOL FROM RCS	RB	797'+0"
08	2LPVA0003	LPI HOT LEG SUCTION	AB	758'+0"
08	2LPVA0005	LPI PUMP 2A SUCTION	AB	758'+0"
08	2LPVA0006	LPI SUCTION CROSSOVER	AB	758'+0"
08	2LPVA0007	LPI SUCTION CROSSOVER	AB	758'+0"
08	2LPVA0008	LPI PUMP 2B SUCTION	AB	758'+0"
08	2LPVA0009	LPI CROSSOVER	AB	758'+0"
08	2LPVA0010	LPI CROSSOVER	AB	758'+0"
08	2LPVA0011	LPI COOLER 2A ISOLATION	AB	771'+0"
08	2LPVA0012	LPI COOLER 2A ISOLATION	AB	771'+0"
08	2LPVA0013	LPI COOLER 2B ISOLATION	AB	771'+0"
08	2LPVA0014	LPI COOLER 2B ISOLATION	AB	771'+0"
08	2LPVA0015	LPI TO HPI/RBS PIGGYBACK 2A	AB	771'+0"
08	2LPVA0016	LPI TO HPI/RBS PIGGYBACK 2B	AB	771'+0"
08	2LPVA0017	LPI TRAIN 2A INJECTION ISOL	AB	822'+0"
08	2LPVA0018	LPI TRAIN 2B INJECTION ISOL	AB	809'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	2LPVA0019	RB EM SUMP SUCTION	AB	758'+0"
08	2LPVA0020	RB EM SUMP SUCTION	AB	758'+0"
08	2LPVA0021	BWST SUCTION ISOLATION	AB	771'+0"
08	2LPVA0022	BWST SUCTION ISOLATION	AB	771'+0"
08	2LPVA0069	LPI SWITCHOVER FLOW CTRL	AB	758'+0"
08	2LPVA0103	BORON DILUTION ISOLATION	RB	797'+6"
08	2LPVA0104	BORON DILUTION ISOLATION	RB	797'+6"
08	2LPVA0126	LPI POST ACC SAMPLE ISOL	AB	758'+0"
18	2MC-1	INSTRUMENT RACK 2MC-1	TB	775'+0"
18	2MC-12	INSTRUMENT RACK 2MC-12	TB	796'+6"
18	2MC-16	INSTRUMENT RACK 2MC-16	TB	796'+6"
18	2MC-2	INSTRUMENT RACK 2MC-2	TB	775'+0"
18	2MC-F40	INSTRUMENT RACK 2MC-F40	TB	796'+6"
20	2MFBMRP	MAIN FDR BUS MONITOR RLY PANEL	AB	809'+0"
18	2MSPS0086	MAIN STEAM PRESS SWITCH (MS-19)	TB	796'+6"
18	2MSPS0087	MAIN STEAM PRESS SWITCH (MS-22)	TB	796'+6"
18	2MSPS0088	MAIN STEAM PRESS SWITCH (MS-28)	TB	796'+6"
18	2MSPS0089	MAIN STEAM PRESS SWITCH (MS-31)	TB	796'+6"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2MSPT0024P	SG 2A PRESSURE	RB	825'+0"
18	2MSPT0025P	SG 2A PRESSURE	RB	825'+0"
18	2MSPT0026P	SG 2B PRESSURE	RB	825'+0"
18	2MSPT0027P	SG 2B PRESSURE	RB	825'+0"
00	2MSPY0042	UNIT 2 UPS (2MSSS0042 - 2MS-87)	AB	796'+6"
08	2MSVA0017	TURBINE BYPASS ISOLATION	TB	796'+6"
07	2MSVA0019	TURBINE BYPASS VALVE	TB	796'+6"
07	2MSVA0022	TURBINE BYPASS VALVE	TB	796'+6"
08	2MSVA0024	AS ISOLATION	TB	796'+6"
08	2MSVA0026	TURBINE BYPASS ISOLATION	TB	796'+6"
07	2MSVA0028	TURBINE BYPASS VALVE	TB	796'+6"
07	2MSVA0031	TURBINE BYPASS VALVE	TB	796'+6"
08	2MSVA0033	AS ISOLATION	TB	796'+6"
08	2MSVA0035	FWPT ISOLATION	TB	796'+6"
08	2MSVA0036	FWPT ISOLATION	TB	796'+6"
08	2MSVA0040	FWPT STOP VALVE	TB	775'+0"
08	2MSVA0043	FWPT STOP VALVE	TB	775'+0"
08	2MSVA0047	MS TO CSAE	TB	796'+6"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	2MSVA0076	MS RH ISOLATION	TB	796'+6"
08	2MSVA0077	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	2MSVA0078	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	2MSVA0079	MS RH ISOLATION	TB	796'+6"
08	2MSVA0080	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	2MSVA0081	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	2MSVA0082	TDEFW STEAM SUPPLY	TB	796'+6"
08	2MSVA0084	TDEFW STEAM SUPPLY	TB	796'+6"
07	2MSVA0087	TDEFW MS ISOLATION VALVE	TB	796'+6"
07	2MSVA0093	TDEFW MS ISOLATION VALVE	TB	775'+0"
07	2MSVA0094	EFW TURBINE STOP VALVE	TB	775'+0"
08	2MSVA0095	TDEFW CONTROL VALVE	TB	775'+0"
07	2MSVA0102	TURBINE STOP VALVE	TB	796'+6"
07	2MSVA0103	TURBINE STOP VALVE	TB	796'+6"
07	2MSVA0104	TURBINE STOP VALVE	TB	796'+6"
07	2MSVA0105	TURBINE STOP VALVE	TB	796'+6"
07	2MSVA0106	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	2MSVA0107	MAIN STEAM CONTROL VALVE	TB	796'+6"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	2MSVA0108	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	2MSVA0109	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	2MSVA0112	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
07	2MSVA0126	MS TO AS CONTROL VALVE	TB	796'+6"
07	2MSVA0129	MS TO AS CONTROL VALVE	TB	796'+6"
07	2MSVA0173	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
20	2MTC1	MISC TERM CAB 2MTC1	AB	809'+0"
20	2MTC2	MISC TERM CAB 2MTC2	AB	809'+0"
20	2MTC3	MISC TERM CAB 2MTC3	AB	809'+0"
20	2MTC4	MISC TERM CAB 2MTC4	AB	809'+0"
16	2PA/BC	PWR BATT CHGR 2PA	TB	796'+6"
18	2PAMLT0090	RB CONTAINMENT WATER LEVEL TRAIN A	RB	777'+0"
18	2PAMLT0091	RB CONTAINMENT WATER LEVEL TRAIN B	RB	777'+0"
20	2PASCP	POST ACCIDENT SAMPLE CONT PANEL (2RC-179)	AB	771'+0"
16	2PB/BC	PWR BATT CHGR 2PB	TB	796'+6"
18	2PIR	UNIT 2 PNEUMATIC INSTR RACK	AB	809'+0"
08	2PRVA0007	RB HYDROGEN PURGE INLET	RB	825
07	2PRVA0008	RB HYDROGEN PURGE INLET	AB	822

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	2PRVA0009	RB HYDROGEN PURGE OUTLET	RB	825
07	2PRVA0010	RB HYDROGEN PURGE OUTLET	AB	822
08	2PRVA0059	RB HYDROGEN PURGE INLET	RB	825
08	2PRVA0060	RB HYDROGEN PURGE OUTLET	RB	825
18	2PS155-1B/PS100-A	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	2PS156-1B/PS100-B	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	2PS157AB/PS101	LOW HYDRAULIC PRESSURE SWITCH	TB	775'+0"
18	2PS433/U2	HYDRAULIC PRESSURE SWITCH	TB	822
18	2PS434/U2	HYDRAULIC PRESSURE SWITCH	TB	822
09	2RBCAH0020A	RBCU FAN 2A	RB	825'+0"
09	2RBCAH0020B	RBCU FAN 2B	RB	825'+0"
09	2RBCAH0020C	RBCU FAN 2C	RB	825'+0"
00	2RBCDA000A	RBC DAMPER 2A	RB	825
00	2RBCDA000B	RBC DAMPER 2B	RB	825
00	2RBCDA000C	RBC DAMPER 2C	RB	825
00	2RCHE0002	U2 PRZ HEATERS BANK 2	RB	818
18	2RCLT0004P1	PRZ LEVEL TRANSMITTER	RB	797'+0"
18	2RCLT0004P3	PRZ LEVEL TRANSMITTER	RB	797'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	2RCLT0123	2A RCS HOT LEG LVL (ICCM A)	RB	809'+0"
18	2RCLT0124	2B RCS HOT LEG LVL (ICCM B)	RB	809'+0"
18	2RCLT0125	RV HEAD LEVEL (ICCM A)	RB	809'+0"
18	2RCLT0126	RV HEAD LEVEL (ICCM B)	RB	809'+0"
18	2RCPS0364	RC PRESS SWITCH	RB	825'+0"
18	2RCPT0017P	RCS LOOP A PRESS TRANS	RB	825'+0"
18	2RCPT0021P	RC PRESS XMTR (ES CH A)	RB	825'+0"
18	2RCPT0022P	RC PRESS XMTR (ES CH B)	RB	825'+0"
18	2RCPT0023P	RC PRESS XMTR (ES CH C)	RB	825'+0"
18	2RCPT0166P	RCS LOOP B PRESS TRANS	RB	825'+0"
18	2RCPT0244	WR RCS PRESS TRAIN A (ICCM)	AB	809'+0"
18	2RCPT0245	WR RCS PRESS TRAIN B (ICCM)	AB	809'+0"
19	2RCRD0005B	A2 COLD LEG RTD	RB	797'+0"
19	2RCRD0006A	A1 COLD LEG RTD	RB	797'+0"
19	2RCRD0007B	B2 COLD LEG RTD	RB	797'+0"
19	2RCRD0008A	B1 COLD LEG RTD	RB	797'+0"
19	2RCRD0043A	PRZ RTD	RB	797'+0"
19	2RCRD0043B	PRZ RTD	RB	797'+0"

Table 4-1-02

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
19	2RCRD0084B	A HOT LEG RTD	RB	844'+6"
19	2RCRD0085B	B HOT LEG RTD	RB	844'+6"
08	2RCVA0003	PRZ SPRAY ISOLATION	RB	850'+0"
08	2RCVA0004	PRZ PORV BLOCK VALVE	RB	850'+0"
08	2RCVA0005	PRZ STEAM SAMPLE ISOLATION	RB	813'
08	2RCVA0006	PRZ WATER SAMPLE ISOLATION	RB	815'+0"
08	2RCVA0007	PRZ WATER SAMPLE ISOLATION	AB	809'+0"
08	2RCVA0066	PRZ PORV	RB	850'+0"
08	2RCVA0155	RCS HOT LEG 2A VENT	RB	825'+0"
08	2RCVA0157	RCS HOT LEG 2B VENT	RB	825'+0"
08	2RCVA0159	RV VENT ISOLATION	RB	844'+6"
08	2RCVA0160	RV VENT ISOLATION	RB	844'+6"
07	2RCVA0162	POST ACC SAMPLE PATH ISOL	RB	777'+0"
07	2RCVA0163	POST ACC SAMPLE PATH ISOL	RB	777'+0"
08	2RCVA0164	POST ACC SAMPLE PATH ISOL	AB	758'+0"
08	2RCVA0165	POST ACC SAMPLE PATH ISOL	AB	758'+0"
07	2RCVA0179	POST ACC SAMPLE THROTTLE	AB	758'+0"
20	2RPS	UNIT 2 RPS CABINETS	AB	822'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2RSC-2CCW-287/ENCL	REMOTE STARTER ENCLOSURE FOR 2CCW-287	SSF	758'+0"
14	2RSC-2FDW-368/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-368	AB	809'+0"
14	2RSC-2FDW-369/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-369	AB	809'+0"
14	2RSC-2FDW-372/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-372	AB	809'+0"
14	2RSC-2FDW-374/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-374	AB	809'+0"
14	2RSC-2FDW-382/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-382	AB	809'+0"
14	2RSC-2FDW-384/ENCL	REMOTE STARTER ENCLOSURE FOR 2FDW-384	AB	809'+0"
14	2RSC-2HP-409/ENCL	REMOTE STARTER ENCLOSURE FOR 2HP-409	AB	796'+6"
14	2RSC-2HP-410/ENCL	REMOTE STARTER ENCLOSURE FOR 2HP-410	AB	796'+6"
14	2RSC-2LPSW-565/ENCL	REMOTE STARTER ENCLOSURE FOR 2LPSW-565	AB	796'+6"
14	2RSC-2LPSW-566/ENCL	REMOTE STARTER ENCLOSURE FOR 2LPSW-566	AB	796'+6"
14	2RSC-2PR-59/ENCL	REMOTE STARTER ENCLOSURE FOR 2PR-59	AB	809'+0"
14	2RSC-2PR-60/ENCL	REMOTE STARTER ENCLOSURE FOR 2PR-60	AB	809'+0"
20	2SCWP	UNIT 2 STATOR COOLING WATER PANEL	TB	775'+0"
21	2SFTK0002	INCORE INST HANDLING TANK	RB	825'+0"
20	2SGFP	SG FWP PANEL	TB	775'+0"
20	2SGLC	STEAM GEN LOGIC CABINET	AB	809'+0"
14	2SKJ	120V PPB 2SKJ	AB	809'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	2SKK	120V PPB 2SKK	AB	809'+0"
14	2SKL	120V PPB 2SKL	AB	809'+0"
20	2SL-5	CRD SYSTEM LOGIC CAB 5	AB	809'+0"
20	2SL-6	CRD SYSTEM LOGIC CAB 6	AB	809'+0"
08	2SSHVA0001	STEAM SEAL HEADER ISOL	TB	796'+6"
08	2SSHVA0003	STEAM SEAL HEADER ISOL	TB	796'+6"
8B	2SSWVA0155	SEAL WATER ISOLATION VALVE	VB	797'+6"
8B	2SSWVA0156	SEAL WATER ISOLATION VALVE	VB	797'+6"
8B	2SSWVA0157	SEAL WATER ISOLATION VALVE	VB	797'+6"
20	2TB-1001	TERMINAL BOX TB-1001	BH	796'+6"
20	2TB-1111	TERM BOX TB-1111	YD	796'+6"
20	2TB-1112	TERM BOX TB-1112	YD	796'+6"
20	2TBATWS1	ATSW TERM BOX 1	AB	809'+0"
20	2TBATWS2	ATSW TERM BOX 2	AB	809'+0"
03	2TC	4KV SWGR 2TC	TB	796'+6"
20	2TCPA	TURB CONT PANEL 2TCPA	TB	796'+6"
03	2TD	4KV SWGR 2TD	TB	796'+6"
20	2TDC3	TRANSDUCER CAB 2TDC3	AB	809'+0"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
03	2TE	4KV SWGR 2TE	TB	796'+6"
18	2TE1602(Typical)	CORE EXIT THERMOCOUPLE 2TE1602	RB	---
05	2TOPU0022	EFWPT AUX OIL PUMP	TB	775'+0"
20	2TTC4	TURB TERM CAB 2TTC4	TB	796'+6"
20	2UB1	CONTROL BOARD 2UB1	AB	822'+0"
20	2UB2	CONTROL BOARD 2UB2	AB	822'+0"
20	2VB1	CONTROL BOARD 2VB1	AB	822'+0"
20	2VB2	CONTROL BOARD 2VB2	AB	822'+0"
20	2VB3	CONTROL BOARD 2VB3	AB	822'+0"
08	2VVA0186	COND VACUUM BREAKER	TB	796'+6"
02	2X01	600V LC 2X01	TB	796'+6"
02	2X02	600V LC 2X02	TB	796'+6"
02	2X03	600V LC 2X03	TB	796'+6"
02	2X04	600V LC 2X04	TB	796'+6"
02	2X05	600V LC 2X05	TB	796'+6"
02	2X06	600V LC 2X06	TB	796'+6"
02	2X08	600V LC 2X08	AB	796'+6"
02	2X09	600V LC 2X09	AB	796'+6"

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
01	2XA	MCC 2XA	TB	796'+6"
01	2XA-A	208V MCC 2XA-A	TB	796'+6"
01	2XB	600V MCC 2XB	TB	775'+0"
01	2XC	MCC 2XC	TB	775'+0"
01	2XGA	2XGA	TB	796'+6"
01	2XGB	MCC 2XGB	TB	796'+6"
01	2XI(600V)	600V MCC 2XI	AB	809'+0"
01	2XJ(600V)	600V MCC 2XJ	AB	809'+0"
01	2XL	MCC 2XL	AB	771'+0"
01	2XN	MCC 2XN	AB	771'+0"
01	2XO	MCC 2XO	AB	796'+6"
01	2XP	MCC 2XP	AB	796'+6"
01	2XR	600V MCC 2XR	AB	838'+0"
01	2XS1	MCC 2XS1	AB	796'+6"
01	2XS2	MCC 2XS2	AB	796'+6"
01	2XS3	MCC 2XS3	AB	796'+6"
01	2XSF(208V)	MCC 2XSF(208V)	SSF	817
01	2XSF(600V)	MCC 2XSF(600V)	SSF	817

Table 4-1-O2

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
01	2XSF-1(208V)	MCC 2XSF-1 (208V)	SSF	797'+0"
04	CT-2	XFMR CT-2	YD	796'+6"
18	EHT-2/U2	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	EHT-4/U2	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	EHT-6/U2	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	MS-HLT-1/U2	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-2/U2	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-3/U2	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-4/U2	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	NI/U2	UNIT 2 NUCLEAR INSTRUMENTATION	RB	N/A
03	OTS1	4KV SWGR OTS1	SSF	777'+0"
18	PS11/U2(2PS135)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	PS12/U2(2PS136)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	RPIAMP-A01/U2(Typical)	ROD POSITION AMPLIFIER A01	AB	809
18	TWS11/U2	THRUST BEARING WEAR DETECTOR SWITCH TURBINE END	TB	822
18	TWS12/U2	THRUST BEARING WEAR DETECTOR SWITCH GENERATOR END	TB	822
01	XOD2B (208V)	208V MCC XOD2B	YD	796'+6"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	3A/3B/SW	3A/3B REG XFER SW	AB	796'+6"
14	3A/MCB	240/120V 3A REGULATOR OUTPUT BKR	AB	796'+6"
00	3A/REG	REGULATED PWR SUPP REG 3A	AB	796'+6"
20	3AB1	CONTROL BOARD 3AB1	AB	822'+0"
20	3AB3	CONTROL BOARD 3AB3	AB	822'+0"
20	3AB3A	CONTROL BOARD 3AB3A	AB	822'+0"
20	3ADA	ISOL DIODE ASSEMBLY 3ADA	AB	796'+6"
20	3ADB	ISOL DIODE ASSEMBLY 3ADB	AB	796'+6"
20	3ADC	ISOL DIODE ASSEMBLY 3ADC	AB	796'+6"
20	3ADD	ISOL DIODE ASSEMBLY 3ADD	AB	796'+6"
20	3ADE	ISOL DIODE ASSEMBLY 3ADE	AB	796'+6"
20	3ADF	ISOL DIODE ASSEMBLY 3ADF	AB	796'+6"
20	3ADG	ISOL DIODE ASSEMBLY 3ADG	AB	796'+6"
18	3AHCC	U3 AIR HANDLING CONTROL CENTER (FOR UNITS 13 & 14)	AB	838'+0"
20	3ASP	AUX SHUTDOWN PANEL	TB	822'+0"
18	3ASPT0117P	AUX STEAM PRESSURE TRANSMITTER (MS-126 & MS-129)	TB	796'+6"
20	3AT3	AREA TERM CAB 3AT3	AB	809'+0"
20	3AT4	AREA TERM CAB 3AT4	AB	809'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3ATBOXEH	FWP 3A TERMINAL BOX EH	TB	775
20	3ATWSCP	U3 ATWS CONTROL PANEL	AB	838'+0"
14	3B	600V PPB 3B (FOR PRESSURIZER HEATERS GROUP 3B BANK 2)	RB	797'+6"
14	3B/MCB	240/120V 3B REGULATOR OUTPUT BKR	AB	796'+6"
00	3B/REG	REGULATED PWR SUPP REG 3B	AB	796'+6"
03	3BIT	4KV SWGR 3BIT	BH	796'+6"
03	3B2T	4KV SWGR 3B2T	BH	796'+6"
18	3BSPS0018	RB PRESS SWITCH (ES CH 3A)	AB	809'+0"
18	3BSPS0019	RB PRESS SWITCH (ES CH 3A)	AB	809'+0"
18	3BSPS0020	RB PRESS SWITCH (ES CH 3B)	AB	809'+0"
18	3BSPS0021	RB PRESS SWITCH (ES CH 3B)	AB	809'+0"
18	3BSPS0022	RB PRESS SWITCH (ES CH 3C)	AB	809'+0"
18	3BSPS0023	RB PRESS SWITCH (ES CH 3C)	AB	809'+0"
18	3BSPT0004P	RB PRESS XMTR (ES CH 3A)	AB	809'+0"
18	3BSPT0005P	RB PRESS XMTR (ES CH 3B)	AB	809'+0"
18	3BSPT0006P	RB PRESS XMTR (ES CH 3C)	AB	809'+0"
08	3BSVA0001	RB SPRAY HEADER 3A ISOLATION	AB	809'+0"
08	3BSVA0002	RB SPRAY HEADER 3B ISOLATION	AB	809'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3BSVA0003	RBS PUMP SUCTION ISOL	AB	758'+0"
08	3BSVA0004	RBS PUMP SUCTION ISOL	AB	758'+0"
18	3BTBOXEH	FWP 3B TERMINAL BOX EH	TB	775
14	3C	600V PPB 3C (FOR PRESSURIZER HEATERS GROUP 3C BANK 2)	RB	818'+0"
16	3CA/BC	CONTROL BATT CHGR 3CA	AB	796'+6"
20	3CAP	CHEMICAL ADDITION PANEL	AB	771'+0"
16	3CB/BC	CONTROL BATT CHGR 3CB	AB	796'+6"
21	3CCTK0001	COMP COOLING SURGE TANK	AB	838'+0"
06	3CCWPU0001	CCW PUMP 3A	YD	810'+0"
06	3CCWPU0002	CCW PUMP 3B	YD	810'+0"
06	3CCWPU0003	CCW PUMP 3C	YD	810'+0"
06	3CCWPU0004	CCW PUMP 3D	YD	810'+0"
05	3CCWPU0024	EFWPT OIL COOLER PUMP	TB	775'+0"
08	3CCWVA0010	DISCH ISOL VALVE	YD	796'+6"
08	3CCWVA0011	DISCH ISOL VALVE	YD	796'+6"
08	3CCWVA0012	DISCH ISOL VALVE	YD	796'+6"
08	3CCWVA0013	DISCH ISOL VALVE	YD	796'+6"
08	3CCWVA0026	CCW VENT VALVE	YD	796

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3CCWVA0027	CCW VENT VALVE	YD	796
08	3CCWVA0028	CCW VENT VALVE	YD	796
08	3CCWVA0029	CCW VENT VALVE	YD	796
08	3CCWVA0093	EM DISCHARGE VALVE	TB	775'+0"
08	3CCWVA0269	CROSSOVER ISOLATION TO A	AB	771'+0"
08	3CCWVA0287	SSF ISOL VALVE	SSF	754'+0"
21	3CFTK000A	CORE FLOOD TANK 3A	RB	797'+0"
21	3CFTK000B	CORE FLOOD TANK 3B	RB	818'+0"
18	3CLT0015A	UST 3B LEVEL	TB	838'+0"
18	3CLT0036	UST 3A LEVEL	TB	838'+0"
18	3CPS0015	UST MAKEUP LEVEL CONTROL (PS-15)	TB	838'+0"
18	3CPS0036	UST MAKEUP LEVEL CONTROL (PS-36)	TB	838'+0"
18	3CPS0227	CONDENSATE BOOSTER PUMP SUCTION HEADER PRESS LOW	TB	775'+0"
06	3CPU0010	HOTWELL PUMP 3A	TB	775'+0"
06	3CPU0011	HOTWELL PUMP 3B	TB	775'+0"
06	3CPU0012	HOTWELL PUMP 3C	TB	775'+0"
02	3CRDACBKRCAB	CRD SYSTEM AC BKR CAB	AB	809'+0"
20	3CRDDCBKRCAB	CRD SYSTEM DC BKR CAB	AB	809'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3CSVA0005	QUENCH TANK DRAIN	RB	777'+6"
07	3CSVA0006	QUENCH TANK DRAIN	AB	758
08	3CVA0152	UST RISER ISOLATION	TB	775'+0"
08	3CVA0153	UST RISER ISOLATION	TB	775'+0"
08	3CVA0156	UST RISER ISOLATION	TB	775'+0"
08	3CVA0158	UST RISER ISOLATION	TB	775'+0"
08	3CVA0160	UST SUPPLY ISO TO TDEFW	TB	775'+0"
07	3CVA0176	UST TO COND ISOL VALVE	TB	775'+0"
07	3CVA0187	UST TO COND ISOL VALVE	TB	775'+0"
07	3CVA0192	UST TO COND ISOL VALVE	TB	775'+0"
07	3CVA0225	POL DEMIN ISOL VALVE (BACKWASH INLET W/A VALVE)	TB	775'+0"
07	3CVA0232	POL DEMIN ISOL VALVE (DRAIN U/A VALVE)	TB	775'+0"
07	3CVA0233	POL DEMIN ISOL VALVE (BACKWASH INLET W/B VALVE)	TB	775'+0"
07	3CVA0237	POL DEMIN ISOL VALVE (DRAIN U/B VALVE)	TB	775'+0"
07	3CVA0240	POL DEMIN ISOL VALVE (BACKWASH INLET W/C VALVE)	TB	775'+0"
07	3CVA0244	POL DEMIN ISOL VALVE (DRAIN U/C VALVE)	TB	775'+0"
07	3CVA0247	POL DEMIN ISOL VALVE (BACKWASH INLET W/D VALVE)	TB	775'+0"
07	3CVA0251	POL DEMIN ISOL VALVE (DRAIN U/D VALVE)	TB	775'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	3CVA0254	POL DEMIN ISOL VALVE (BACKWASH INLET W/E VALVE)	TB	775'+0"
07	3CVA0258	POL DEMIN ISOL VALVE (DRAIN U/E VALVE)	TB	775'+0"
07	3CVA0262	SLURRY TANK ISOLATION VALVE (Z VALVE)	TB	775'+0"
07	3CVA0263	POL DEMIN ISOL VALVE (X VALVE)	TB	775'+0"
07	3CVA0264	SLURRY TANK ISOLATION VALVE (L VALVE)	TB	775'+0"
07	3CVA0265	SLURRY TANK ISOLATION VALVE (D VALVE)	TB	775'+0"
07	3CVA0267	POL DEMIN ISOL VALVE (VR VALVE)	TB	775'+0"
07	3CVA0268	POL DEMIN ISOL VALVE (QR VALVE)	TB	775'+0"
08	3CVA0391	HOTWELL SUPPLY ISO TO TDEFW	TB	775'+0"
14	3D	600V PPB 3D (FOR PRESSURIZER HEATERS GROUP 3D BANK 2)	RB	818'+0"
01	3DCA	125V DC 3DCA	AB	796'+6"
01	3DCB	125V DC 3DCB	AB	796'+6"
16	3DIA/INV	120V STATIC INV 3DIA	AB	796'+6"
14	3DIA/PPB	125V PPB 3DIA	AB	809'+0"
16	3DIB/INV	120V STATIC INV 3DIB	AB	796'+6"
14	3DIB/PPB	125V PPB 3DIB	AB	809'+0"
16	3DIC/INV	120V STATIC INV 3DIC	AB	796'+6"
14	3DIC/PPB	125V PPB 3DIC	AB	809'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
16	3DID/INV	120V STATIC INV 3DID	AB	796'+6"
14	3DID/PPB	125V PPB 3DID	AB	809'+0"
14	3DL2/PPB	250V DC 3DL2 PPB	AB	796'+6"
01	3DP	125/250V DC 3DP	TB	796'+6"
20	3EB1	ELECTRICAL BOARD 3EB1	AB	822
20	3EB2	ELECTRICAL BOARD 3EB2	AB	822
20	3EB3	ELECTRICAL BOARD 3EB3	AB	822
20	3EB4	ELECTRICAL BOARD 3EB4	AB	822
20	3EHC1	EHC CAB 3EHC1	AB	809'+0"
20	3EHC2	EHC CAB 3EHC2	AB	809'+0"
20	3EHC3	EHC CAB 3EHC3	AB	809'+0"
20	3EHTC1	EHC TERM CAB 3EHTC1	AB	809'+0"
20	3EHTC2	EHC TERM CAB 3EHTC2	AB	809'+0"
20	3EPSLP1	EPSL PANEL 3EPSLP1	AB	809'+0"
20	3EPSLP2	EPSL PANEL 3EPSLP2	AB	809'+0"
20	3ESFAS	UNIT 3 ESFAS CABINETS	AB	822'+0"
20	3ESTC1	ESFAS ODD CH TERM CAB 3ESTC1	AB	809'+0"
20	3ESTC2	ESFAS EVEN CH TERM CAB 3ESTC2	AB	809'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	3ESTC2A	ESFAS AUX RLY CAB 3ESTC2A	AB	809'+0"
20	3ESTC3	ES ODD & EVEN RLY CAB 3ESTC3	AB	809'+0"
00	3FDWFE0153	SG 3A LEVEL INDICATOR	AB	783
00	3FDWFE0154	SG 3B LEVEL INDICATOR	RB	783
18	3FDWFT0140	3A EFW HEADER FLOW	AB	783'+0"
18	3FDWFT0141	3B EFW HEADER FLOW	AB	783'+0"
18	3FDWFT0153	3A EFW HEADER FLOW TRANSMITTER	AB	775'+0"
18	3FDWFT0154	3B EFW HEADER FLOW TRANSMITTER	AB	775'+0"
18	3FDWLT0080	SG 3A LEVEL TRANSMITTER	RB	777'+0"
18	3FDWLT0081	SG 3B LEVEL TRANSMITTER	RB	777'+0"
18	3FDWLT0082	SG 3A LEVEL TRANSMITTER	RB	777'+0"
18	3FDWLT0083	SG 3B LEVEL TRANSMITTER	RB	777'+0"
18	3FDWLT008A	LOOP 2A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	3FDWLT010A	LOOP 2B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	3FDWLT051A	LOOP 3A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	3FDWLT052A	LOOP 3B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	RB	777'+4"
18	3FDWPS0300	3EFPT LOW HYDR OIL PRESS SWITCH	TB	775'+0"
18	3FDWPS0385	FWPT 3B CONTROL OIL PRESS SWITCH	TB	775'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3FDWPS0386	MDEFWP 3A DISCH PRESS SWITCH (3TD-00)	TB	775'+0"
18	3FDWPS0387	MDEFWP 3A DISCH PRESS SWITCH (3TE-00)	TB	775'+0"
18	3FDWPS0388	FWPT 3B DISCH PRESS LOW	TB	775'+0"
18	3FDWPS0389	FWPT 3B DISCH PRESS LOW	TB	775'+0"
18	3FDWPS1009	MAIN FWP DISCH PRESS SWITCH (3MS-93)	TB	775'+0"
18	3FDWPS1010	MAIN FWP DISCH PRESS SWITCH (3MS-93)	TB	775'+0"
05	3FDWPU0003	TDEFW PUMP	TB	775'+0"
05	3FDWPU0004	MDEFW PUMP 3A	TB	775'+0"
05	3FDWPU0005	MDEFW PUMP 3B	TB	775'+0"
08	3FDWVA0105	SG 3A SAMPLE ISOLATION	RB	797'+0"
07	3FDWVA0106	SG 3A SAMPLE ISOLATION	AB	809'+0"
08	3FDWVA0107	SG 3B SAMPLE ISOLATION	RB	797'+0"
07	3FDWVA0108	SG 3B SAMPLE ISOLATION	AB	809'+0"
07	3FDWVA0315	MDEFW PUMP 3A ISOLATION	AB	809'+0"
07	3FDWVA0316	MDEFW PUMP 3B ISOLATION	AB	809'+0"
08	3FDWVA0347	MDEFW PUMP 3B ISOLATION	AB	822'+0"
08	3FDWVA0368	TDEFW TO HEADER A	TB	775'+0"
08	3FDWVA0369	TDEFW TO HEADER B	TB	775'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3FDWVA0372	MDEFW PUMP 3A ISOLATION	TB	775'+0"
08	3FDWVA0374	STARTUP HEADER ISOL	TB	775'+0"
08	3FDWVA0382	MDEFW PUMP 3B ISOLATION	TB	775'+0"
08	3FDWVA0384	STARTUP HEADER ISOL	TB	775'+0"
08	3GWDVA0012	QUENCH TANK VENT	RB	809'+3"
07	3GWDVA0013	QUENCH TANK VENT	AB	809
20	3HBP	UNIT 3 HEATER BLANKETING PANEL	TB	822'+0"
18	3HDPS0377	1ST STAGE RH PRESS SWITCH	TB	822'+0"
18	3HPIEP0002	RCP SEAL INJECTION FLOW	AB	775'+0"
18	3HPIFT0007A	A LOOP INJ FLOW TRANSMITTER	AB	758'+0"
18	3HPIFT0008A	HPI LOOP 3B FLOW XMTR	AB	758'+0"
18	3HPIFT0075	RCP SEAL INJ FLOW TRANSMITTER	AB	783'+0"
18	3HPIFT0101	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	3HPIFT0102	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	3HPIFT0103	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	3HPIFT0104	RC PUMP SEAL INLET FLOW XMTR (POWERED BY ICS)	AB	783'+0"
18	3HPIFT0160	B LOOP INJ FLOW TRANSMITTER	AB	809
18	3HPILT0033P1	LDST LEVEL #1	AB	771'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3HPILT0033P2	LDST LEVEL #2	AB	771'+0"
00	3HPIPS0357	LETDOWN FLOW TEMP HIGH INTERLOCK	AB	783'+0"
06	3HPIPU0001	HPI PUMP 3A	AB	758'+0"
06	3HPIPU0002	HPI PUMP 3B	AB	758'+0"
06	3HPIPU0003	HPI PUMP 3C	AB	758'+0"
08	3HPVA0003	LETDOWN ISOLATION	RB	777'+0"
08	3HPVA0004	LETDOWN ISOLATION	RB	777'+0"
07	3HPVA0005	LETDOWN ISOLATION	AB	809'+0"
08	3HPVA0020	RCP SEAL RETURN ISOLATION	RB	809'+0"
07	3HPVA0021	RCP SEAL RETURN CONTAIN ISOL	RB	809'+0"
07	3HPVA0022	LDST DRAIN	AB	783
08	3HPVA0023	HPI LDST SUCTION ISOLATION	AB	783
08	3HPVA0024	BWST SUCTION ISOLATION	AB	771'+0"
08	3HPVA0025	BWST SUCTION ISOLATION	AB	771'+0"
08	3HPVA0026	HPI LOOP 3A INJECTION	AB	809'+0"
08	3HPVA0027	HPI TRAIN 3B (EMERGENCY) INJECTION	AB	809'+0"
07	3HPVA0031	RCP SEAL INJ FLOW CONTROL	AB	796'+6"
08	3HPVA0098	HPI PUMP 3B SUCTION	AB	758'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3HPVA0115	HPI DISCH HEADER SEP	AB	758'+0"
07	3HPVA0355	HPI AUX SPRAY THROTTLE	AB	809'+0"
08	3HPVA0405	SSF RCMU BYPASS ISOL	RB	777'+6"
08	3HPVA0409	HPI CROSSOVER ISOLATION	AB	809'+0"
08	3HPVA0426	ALT LETDOWN PATH ISOLATION	RB	777'+0"
08	3HPVA0428	ALT LETDOWN PATH ISOLATION	RB	777'+0"
20	3ICCM A	UNIT 3 ICCM TRAIN A CABINET	AB	822'+0"
20	3ICCM B	UNIT 3 ICCM TRAIN B CABINET	AB	822'+0"
20	3ICS	INTEGRATED CONTROL SYSTEM CABINETS	AB	822'+0"
14	3KA	120V PPB 3KA	TB	775'+0"
14	3KC	120V PPB 3KC	TB	796'+6"
14	3KD	120V PPB 3KD	AB	771'+0"
14	3KE	120V PPB 3KE	AB	796'+6"
20	3KESP	KEOWEE EM START PANEL	AB	809'+0"
14	3KG	120V PPB 3KG	AB	838'+0"
14	3KI	120V PPB 3KI	AB	809'+0"
16	3KI/INV	STATIC INVERTER 3KI (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	3KI/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 3KI	AB	796'+6"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
20	3KI/SW/T	TRANSFER SWITCH 3KI	AB	796'+6"
14	3KM	120V PPB 3KM	AB	809'+0"
14	3KRA	120V PPB 3KRA	AB	809'+0"
14	3KTH1	120V PPB 3KTH1	AB	771'+0"
14	3KU	120V PPB 3KU	AB	809'+0"
16	3KU/INV	STATIC INVERTER 3KU (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	3KU/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 3KU	AB	796'+6"
20	3KU/SW/T	TRANSFER SWITCH 3KU	AB	796'+6"
14	3KVIA	120V PPB 3KVIA	AB	809'+0"
14	3KVIB	120V PPB 3KVIB	AB	809'+0"
14	3KVIC	120V PPB 3KVIC	AB	809'+0"
14	3KVID	120V PPB 3KVID	AB	809'+0"
14	3KX	120V PPB 3KX	AB	809'+0"
16	3KX/INV	STATIC INVERTER 3KX (INCLUDES STATIC XFER SWITCH)	AB	796'+6"
20	3KX/SW/BP	STATIC SWITCH AND INVERTER BYPASS SWITCH 3KX	AB	796'+6"
20	3KX/SW/T	TRANSFER SWITCH 3KX	AB	796'+6"
14	3L21/PPB	125V DC PPB 3L21	AB	822'+0"
14	3L22/PPB	125V DC PPB 3L22	AB	822'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3LPIFT0004P	LPI TRAIN 3B INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"
18	3LPIFT0005P	LPI TRAIN 3A INJ FLOW TRANS (POWERED BY ICCM)	AB	809'+0"
05	3LPIPU0001	3LPI PUMP A	AB	758'+0"
05	3LPIPU0002	3LPI PUMP B	AB	758'+0"
05	3LPIPU0003	3LPI PUMP C	AB	758'+0"
19	3LPITE0209	LPI COOLER OUTLET TEMP (ICS INPUT)	AB	809'+0"
19	3LPITE0210	LPI COOLER OUTLET TEMP (ICS INPUT)	AB	809'+0"
21	3LPITK0001	BWST	YD	796'+6"
18	3LPSEP0022	DECAY HEAT COOLER E/P CONVERTER (3LPSW-405)	TB	775'+0"
18	3LPSEP0023	DECAY HEAT COOLER E/P CONVERTER (3LPSW-404)	TB	775'+0"
18	3LPSFT0124	LPI COOLER 3A FLOW XMTR (3LPSW-405)	AB	771'+0"
18	3LPSFT0125	LPI COOLER 3B FLOW XMTR (3LPSW-404)	AB	771'+0"
18	3LPSPS0102	LPSW HEADER PRESSURE	TB	775'+0"
18	3LPSPS0103	LPSW HEADER PRESSURE	TB	775'+0"
05	3LPSPU0001	LPSW PUMP 3A	TB	775'+0"
05	3LPSPU0002	LPSW PUMP 3B	TB	775'+0"
08	3LPSVA0004	LPI COOLER 3A ISOLATION VALVE	AB	783'+0"
08	3LPSVA0005	LPI COOLER 3B ISOLATION VALVE	AB	783'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3LPSVA0016	RBCU 3A SUPPLY VALVE	AB	822'+0"
08	3LPSVA0018	RBCU 3A RETURN VALVE	AB	809'+0"
08	3LPSVA0019	RBCU 3B SUPPLY VALVE	AB	809'+0"
08	3LPSVA0021	RBCU 3B RETURN VALVE	AB	809'+0"
08	3LPSVA0022	RBCU 3C SUPPLY VALVE	AB	809'+0"
08	3LPSVA0024	RBCU 3C RETURN VALVE	AB	809'+0"
08	3LPSVA0120	LPSW PUMP A SUCTION VALVE	TB	775'+0"
08	3LPSVA0123	LPSW PUMP B SUCTION VALVE	TB	775'+0"
08	3LPSVA0137	TDEFW ISOLATION VALVE	TB	775'+0"
8A	3LPSVA0139	NONESSENTIAL HEADER ISOLATION VALVE	TB	796'
07	3LPSVA0404	LPI COOLER 3B CONTROL VALVE	TB	775'+0"
07	3LPSVA0405	LPI COOLER 3A CONTROL VALVE	TB	775'+0"
07	3LPSVA0516	EFW PUMP 3A LPSW ISOLATION VALVE	TB	775'+0"
07	3LPSVA0525	EFW PUMP 3B LPSW ISOLATION VALVE	TB	775'+0"
08	3LPSVA0565	RB AUX COOLERS SUPPLY VALVE	RB	825'+0"
08	3LPSVA0566	RBCU 3B INLET VALVE	RB	797'+0"
08	3LPVA0001	LPI DROPLINE ISOL FROM RCS	RB	797'+0"
08	3LPVA0002	LPI DROPLINE ISOL FROM RCS	RB	797'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3LPVA0003	LPI HOT LEG SUCTION	AB	758'+0"
08	3LPVA0005	LPI PUMP 3A SUCTION	AB	758'+0"
08	3LPVA0006	LPI SUCTION CROSSOVER	AB	758'+0"
08	3LPVA0007	LPI SUCTION CROSSOVER	AB	758'+0"
08	3LPVA0008	LPI PUMP 3B SUCTION	AB	758'+0"
08	3LPVA0009	LPI CROSSOVER	AB	758'+0"
08	3LPVA0010	LPI CROSSOVER	AB	758'+0"
08	3LPVA0012	LPI COOLER 3A ISOLATION	AB	771'+0"
08	3LPVA0014	LPI COOLER 3B ISOLATION	AB	771'+0"
08	3LPVA0015	LPI TO HPI/RBS PIGGYBACK 3A	AB	771'+0"
08	3LPVA0016	LPI TO HPI/RBS PIGGYBACK 3B	AB	771'+0"
08	3LPVA0017	LPI TRAIN 3A INJECTION ISOL	AB	809'+0"
08	3LPVA0018	LPI TRAIN 3B INJECTION ISOL	AB	809'+0"
08	3LPVA0019	RB EM SUMP SUCTION	AB	758'+0"
08	3LPVA0020	RB EM SUMP SUCTION	AB	758'+0"
08	3LPVA0021	BWST SUCTION ISOLATION	AB	771'+0"
08	3LPVA0022	BWST SUCTION ISOLATION	AB	771'+0"
07	3LPVA0092	LPI COOLER BYPASS VALVE	AB	771'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	3LPVA0093	LPI COOLER BYPASS VALVE	AB	771'+0"
08	3LPVA0103	BORON DILUTION ISOLATION	RB	797'+6"
08	3LPVA0126	LPI POST ACC SAMP ISOL	AB	758
18	3MC-25	INSTRUMENT RACK 3MC-25	TB	796'+6"
18	3MC-29	INSTRUMENT RACK 3MC-29	TB	796'+6"
18	3MC-32	INSTRUMENT RACK 3MC-32	TB	775'+0"
18	3MC-33	INSTRUMENT RACK 3MC-33	TB	775'+0"
18	3MC-F54	INSTRUMENT RACK 3MC-F54	TB	796'+6"
20	3MFBMRP	MAIN FDR BUS MONITOR RLY PANEL	AB	809'+0"
18	3MSPS0086	MAIN STEAM PRESS SWITCH (3MS-19)	TB	796'+6"
18	3MSPS0087	MAIN STEAM PRESS SWITCH (3MS-22)	TB	796'+6"
18	3MSPS0088	MAIN STEAM PRESS SWITCH (3MS-28)	TB	796'+6"
18	3MSPS0089	MAIN STEAM PRESS SWITCH (3MS-31)	TB	796'+6"
18	3MSPT0024P	SG 3A PRESSURE	RB	777'+0"
18	3MSPT0025P	SG 3A PRESSURE	RB	777'+0"
18	3MSPT0026P	SG 3B PRESSURE	RB	777'+0"
18	3MSPT0027P	SG 3B PRESSURE	RB	777'+0"
00	3MSPY0042	UNIT 3 UPS (3MSSS0042 - 3MS-87))	AB	796'+6"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3MSVA0017	TURBINE BYPASS ISOLATION	TB	796'+6"
07	3MSVA0019	TURBINE BYPASS VALVE	TB	796'+6"
07	3MSVA0022	TURBINE BYPASS VALVE	TB	796'+6"
08	3MSVA0024	AS ISOLATION	TB	796'+6"
08	3MSVA0026	TURBINE BYPASS ISOLATION	TB	796'+6"
07	3MSVA0028	TURBINE BYPASS VALVE	TB	796'+6"
07	3MSVA0031	TURBINE BYPASS VALVE	TB	796'+6"
08	3MSVA0033	AS ISOLATION	TB	796'+6"
08	3MSVA0035	FWPT ISOLATION	TB	796'+6"
08	3MSVA0036	FWPT ISOLATION	TB	796'+6"
08	3MSVA0040	FWPT STOP VALVE	TB	775'+0"
08	3MSVA0043	FWPT STOP VALVE	TB	775'+0"
08	3MSVA0047	MS TO CSAE	TB	796'+6"
08	3MSVA0076	MS RH ISOLATION	TB	796'+6"
08	3MSVA0077	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	3MSVA0078	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	3MSVA0079	MS RH ISOLATION	TB	796'+6"
08	3MSVA0080	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3MSVA0081	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
08	3MSVA0082	TDEFW STEAM SUPPLY	TB	796'+6"
08	3MSVA0084	TDEFW STEAM SUPPLY	TB	796'+6"
07	3MSVA0087	TDEFW MS ISOLATION VALVE	TB	796'+6"
07	3MSVA0093	TDEFW MS ISOLATION VALVE	TB	775'+0"
07	3MSVA0094	EFW TURBINE STOP VALVE	TB	775'+0"
08	3MSVA0095	TDEFW CONTROL VALVE	TB	775'+0"
07	3MSVA0102	TURBINE STOP VALVE	TB	796'+6"
07	3MSVA0103	TURBINE STOP VALVE	TB	796'+6"
07	3MSVA0104	TURBINE STOP VALVE	TB	796'+6"
07	3MSVA0105	TURBINE STOP VALVE	TB	796'+6"
07	3MSVA0106	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	3MSVA0107	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	3MSVA0108	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	3MSVA0109	MAIN STEAM CONTROL VALVE	TB	796'+6"
07	3MSVA0112	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
07	3MSVA0126	MS TO AS CONTROL VALVE	TB	796'+6"
07	3MSVA0129	MS TO AS CONTROL VALVE	TB	796'+6"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
07	3MSVA0173	MS TO 2ND STAGE RHTR ISOL	TB	796'+6"
20	3MTC1	MISC TERM CAB 3MTC1	AB	809'+0"
20	3MTC2	MISC TERM CAB 3MTC2	AB	809'+0"
20	3MTC3	MISC TERM CAB 3MTC3	AB	809'+0"
20	3MTC4	MISC TERM CAB 3MTC4	AB	809'+0"
16	3PA/BC	PWR BATT CHGR 3PA	TB	796'+6"
18	3PAMLT0090	RB CONTAINMENT WATER LEVEL TRAIN A	RB	777'+0"
18	3PAMLT0091	RB CONTAINMENT WATER LEVEL TRAIN B	RB	777'+0"
20	3PASCP	POST ACCIDENT SAMPLE CONT PANEL (3RC-179)	AB	771'+0"
16	3PB/BC	PWR BATT CHGR 3PB	TB	796'+6"
18	3PIR	UNIT 3 PNEUMATIC INSTR RACK	AB	809'+0"
20	3POWDEXPANEL	3 POWDEX PANEL	TB	775'+0"
08	3PRVA0007	RB HYDROGEN PURGE INLET	RB	825
07	3PRVA0008	RB HYDROGEN PURGE INLET	AB	809
08	3PRVA0009	RB HYDROGEN PURGE OUTLET	RB	809'+3"
07	3PRVA0010	RB HYDROGEN PURGE OUTLET	AB	809
08	3PRVA0059	RB HYDROGEN PURGE INLET	RB	825
08	3PRVA0060	RB HYDROGEN PURGE OUTLET	RB	809'+3"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3PS155-1B/PS100-A	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	3PS156-1B/PS100-B	PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	TB	822
18	3PS157AB/PS101	LOW HYDRAULIC PRESSURE SWITCH	TB	775'+0"
18	3PS433/U3	HYDRAULIC PRESSURE SWITCH	TB	822
18	3PS434/U3	HYDRAULIC PRESSURE SWITCH	TB	822
09	3RBCAH0020A	RBCU FAN 3A	RB	825'+0"
09	3RBCAH0020B	RBCU FAN 3B	RB	825'+0"
09	3RBCAH0020C	RBCU FAN 3C	RB	825'+0"
00	3RBCDA000A	RBC DAMPER 3A	RB	825
00	3RBCDA000B	RBC DAMPER 3B	RB	825
00	3RBCDA000C	RBC DAMPER 3C	RB	825
00	3RCHE0002	U3 PRZ HEATERS BANK 2	RB	818
18	3RCLT0004P1	PRZ LEVEL TRANSMITTER	RB	797'+0"
18	3RCLT0004P3	PRZ LEVEL TRANSMITTER	RB	797'+0"
18	3RCLT0123	3A RCS HOT LEG LVL (ICCM A)	RB	809'+0"
18	3RCLT0124	3B RCS HOT LEG LVL (ICCM B)	RB	809'+0"
18	3RCLT0125	RV HEAD LEVEL (ICCM A)	RB	809'+0"
18	3RCLT0126	RV HEAD LEVEL (ICCM B)	RB	809'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	3RCPS0364	RC PRESS SWITCH	RB	825'+0"
19	3RCPT0017P	RCS LOOP A PRESS TRANS	RB	825'+0"
18	3RCPT0021P	RC PRESS XMTR (ES CH A)	RB	825'+0"
18	3RCPT0022P	RC PRESS XMTR (ES CH B)	RB	825'+0"
18	3RCPT0023P	RC PRESS XMTR (ES CH C)	RB	825'+0"
18	3RCPT0166P	RCS LOOP B PRESS TRANS	RB	825'+0"
18	3RCPT0244	WR RCS PRESS TRAIN A (ICCM)	AB	809'+0"
18	3RCPT0245	WR RCS PRESS TRAIN B (ICCM)	AB	809'+0"
19	3RCRD0005B	RCS COLD LEG RTD	RB	797'+0"
19	3RCRD0006A	RCS COLD LEG RTD	RB	797'+0"
19	3RCRD0007B	RCS COLD LEG RTD	RB	797'+0"
19	3RCRD0008A	RCS COLD LEG RTD	RB	797'+0"
19	3RCRD0043A	PRZ RTD	RB	797'+0"
19	3RCRD0043B	PRZ RTD	RB	797'+0"
19	3RCRD0084B	HOT LEG 3A RTD	RB	844'+6"
19	3RCRD0085B	HOT LEG 3B RTD	RB	844'+6"
08	3RCVA0003	PRZ SPRAY ISOLATION	RB	850'+0"
08	3RCVA0004	PRZ PORV BLOCK VALVE	RB	850'+0"

Table 4-1-03

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3RCVA0005	PRZ STEAM SAMPLE ISOLATION	RB	797'+0"
08	3RCVA0006	PRZ WATER SAMPLE ISOLATION	RB	797'+0"
08	3RCVA0007	PRZ WATER SAMPLE ISOLATION	AB	809'+0"
08	3RCVA0066	PRZ PORV	RB	850'+0"
08	3RCVA0155	RCS HOT LEG 3A VENT	RB	825'+0"
08	3RCVA0157	RCS HOT LEG 3B VENT	RB	825'+0"
08	3RCVA0159	RV VENT ISOLATION	RB	844'+6"
08	3RCVA0160	RV VENT ISOLATION	RB	844'+6"
08	3RCVA0162	POST ACC SAMPLE PATH ISOL	RB	777'+0"
08	3RCVA0163	POST ACC SAMPLE PATH ISOL	RB	777'+0"
07	3RCVA0179	POST ACC SAMPLE THROTTLE	AB	758'+0"
20	3RPS	UNIT 3 RPS CABINETS	AB	822'+0"
14	3RSC-3CCW-287/ENCL	REMOTE STARTER ENCLOSURE FOR 3CCW-287	SSF	758'+0"
14	3RSC-3FDW-368/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-368	AB	809'+0"
14	3RSC-3FDW-369/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-369	AB	809'+0"
14	3RSC-3FDW-372/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-372	AB	809'+0"
14	3RSC-3FDW-374/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-374	AB	809'+0"
14	3RSC-3FDW-382/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-382	AB	809'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
14	3RSC-3FDW-384/ENCL	REMOTE STARTER ENCLOSURE FOR 3FDW-384	AB	809'+0"
14	3RSC-3HP-409/ENCL	REMOTE STARTER ENCLOSURE FOR 3HP-409	AB	796'+6"
14	3RSC-3HP-410/ENCL	REMOTE STARTER ENCLOSURE FOR 3HP-410	AB	796'+6"
14	3RSC-3LP-126/ENCL	REMOTE STARTER ENCLOSURE FOR 3LP-126	AB	771'+0"
14	3RSC-3LPSW-565/ENCL	REMOTE STARTER ENCLOSURE FOR 3LPSW-565	AB	796'+6"
14	3RSC-3LPSW-566/ENCL	REMOTE STARTER ENCLOSURE FOR 3LPSW-566	AB	796'+6"
14	3RSC-3PR-59/ENCL	REMOTE STARTER ENCLOSURE FOR 3PR-59	AB	809'+0"
14	3RSC-3PR-60/ENCL	REMOTE STARTER ENCLOSURE FOR 3PR-60	AB	809'+0"
20	3SCWP	UNIT 3 STATOR COOLING WATER PANEL	TB	775'+0"
21	3SFTK0002	INCORE INST HANDLING TANK	RB	825'+0"
20	3SGFP	SG FWP PANEL	TB	775'+0"
20	3SGLC	STEAM GEN LOGIC CABINET	AB	809'+0"
14	3SKJ	120V PPB 3SKJ	AB	809'+0"
14	3SKK	120V PPB 3SKK	AB	809'+0"
14	3SKL	120V PPB 3SKL	AB	809'+0"
20	3SL-5	CRD SYSTEM LOGIC CAB 5	AB	809'+0"
20	3SL-6	CRD SYSTEM LOGIC CAB 6	AB	809'+0"
08	3SSHVA0001	STEAM SEAL HEADER ISOLATION	TB	796'+6"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
08	3SSHVA0003	STEAM SEAL HEADER ISOLATION	TB	796'+6"
20	3TB-2111	TERM BOX 2111	YD	796'+6"
20	3TB-2112	TERM BOX 2112	YD	796'+6"
20	3TBATWS1	ATSW TERM BOX 1	AB	809'+0"
20	3TBATWS2	ATSW TERM BOX 2	AB	809'+0"
03	3TC	4KV SWGR 3TC	TB	796'+6"
20	3TCPA	TURB CONT PANEL 3TCPA	TB	796'+6"
03	3TD	4KV SWGR 3TD	TB	796'+6"
20	3TDC3	TRANSDUCER CAB 3TDC3	AB	809'+0"
03	3TE	4KV SWGR 3TE	TB	796'+6"
18	3TE1602(Typical)	CORE EXIT THERMOCOUPLE 3TE1602	RB	---
05	3TOPU0022	EFWPT AUX OIL PUMP	TB	775'+0"
20	3TTC4	TURB TERM CAB 3TTC4	TB	796'+6"
20	3UB1	CONTROL BOARD 3UB1	AB	822'+0"
20	3UB2	CONTROL BOARD 3UB2	AB	822'+0"
20	3VB1	CONTROL BOARD 3VB1	AB	822'+0"
20	3VB2	CONTROL BOARD 3VB2	AB	822'+0"
20	3VB3	CONTROL BOARD 3VB3	AB	822'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
10	3VSAH0013	AHU-3-13	AB	838'+0"
10	3VSAH0014	AHU-3-14	AB	838'+0"
09	3VSAH0026	OUTSIDE AIR BOOSTER FAN 'A' (F3-8)	AB	838'+0"
09	3VSAH0027	OUTSIDE AIR BOOSTER FAN 'B' (F3-9)	AB	838'+0"
20	3VSMN0001	CHLORINE DETECTOR MONITOR PANEL	AB	838'+0"
08	3VVA0186	COND VACUUM BREAKER	TB	796'+6"
02	3X01	600V LC 3X01	TB	796'+6"
02	3X02	600V LC 3X02	TB	796'+6"
02	3X03	600V LC 3X03	TB	796'+6"
02	3X04	600V LC 3X04	TB	796'+6"
02	3X05	600V LC 3X05	TB	796'+6"
02	3X06	600V LC 3X06	TB	796'+6"
02	3X08	600V LC 3X08	AB	796'+6"
02	3X09	600V LC 3X09	AB	796'+6"
01	3XA	MCC 3XA	TB	796'+6"
01	3XA-A	208V MCC 3XA-A	TB	796'+6"
01	3XB	600V MCC 3XB	TB	775'+0"
01	3XC	MCC 3XC	TB	775'+0"

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
01	3XGA	MCC 3XGA	TB	796'+6"
01	3XGB	MCC 3XGB	TB	796'+6"
01	3XI(600V)	600V MCC 3XI	AB	809'+0"
01	3XJ(600V)	600V MCC 3XJ	AB	809'+0"
01	3XL	MCC 3XL	AB	771'+0"
01	3XN	MCC 3XN	AB	771'+0"
01	3XO	MCC 3XO	AB	796'+6"
01	3XP	MCC 3XP	AB	796'+6"
01	3XR	600V MCC 3XR	AB	838'+0"
01	3XS1	MCC 3XS1	AB	796'+6"
01	3XS2	MCC 3XS2	AB	796'+6"
01	3XS3	MCC 3XS3	AB	796'+6"
01	3XSF(208V)	MCC 3XSF(208V)	SSF	817
01	3XSF(600V)	MCC 3XSF(600V)	SSF	817
01	3XSF-1(208V)	MCC 3XSF-1 (208V)	SSF	797'+0"
01	3XT	MCC 3XT	AB	838'+0"
04	CT-3	XFMR CT-3	YD	796'+6"
18	EHT-2/U3	EXHAUST HOOD TEMPERATURE SWITCH	TB	822

Table 4-1-O3

SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
FOR RELAY REVIEW
OCONEE NUCLEAR STATION
Unit 3

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SORTED BY EQUIPMENT ID

Equip Class	Equipment ID	System/Equipment Description	Bldg	Floor Elev
18	EHT-4/U3	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	EHT-6/U3	EXHAUST HOOD TEMPERATURE SWITCH	TB	822
18	MS-HLT-1/U3	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-2/U3	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-3/U3	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	MS-HLT-4/U3	MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	TB	796
18	NI/U3	UNIT 3 NUCLEAR INSTRUMENTATION	RB	N/A
18	PS11/U3(3PS135)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	PS12/U3(3PS136)	PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR	TB	822
18	RPIAMP-A01/U3(Typical)	ROD POSITION AMPLIFIER A01	AB	809
18	TWS11/U3	THRUST BEARING WEAR DETECTOR SWITCH TURBINE END	TB	822
18	TWS12/U3	THRUST BEARING WEAR DETECTOR SWITCH GENERATOR END	TB	822

Section 5

RESULTS OF FUNCTIONAL SCREENING OF RELAYS

5.1 INTRODUCTION

This section documents the relay screening and evaluations for each of the SSEL relay review equipment items listed in Section 4 of this report. The A-46 Relay Screening and Evaluation, Form G.4 - Contact Device Tabulation forms from References 7 and 10 were used to summarize the relay review and provide a traceable record of the reviews.

5.2 A-46 RELAY SCREENING AND EVALUATION

The A-46 Relay Screening and Evaluation, Form G.4 - Contact Device Tabulation forms provided herein provide a traceable record of the relays associated with each SSEL component requiring a relay review. SSEL component identifications are provided in the left column of the form. The control circuit drawing or other appropriate reference drawing for that component is listed in the second column. Each contact device that affects the SSEL component is listed below the SSEL component. The relay type and location are provided in the third column. The fourth column lists the results of the contact chatter review as well as the building and floor elevation where the contact device is located.

The forms are essentially the same format as shown in EPRI NP-7147-SL. The only minor differences are the manner in which relays are listed and the manner in which signatures are documented. The example in EPRI NP-7147-SL lists relays associated with a particular SSEL item in a column beside the item. The format used for Oconee Nuclear Station lists the relays beneath the listing for the SSEL item rather than in a column beside the item. Only one set of signatures are included at the end of the forms rather than on each page as is done in EPRI NP-7147-SL.

These forms are contained in Table 5-1. SAT field codes are included as the last page in each section printout.

Items on the forms that are printed in ***Bold-Italic*** font are considered to be major components such as pumps, major circuit breakers, etc. Items that are printed in **bold** font are those items which are major support to a major component (e.g. switchgear breakers in support a major pump). Items in standard font are other components that support the SSEL equipment.

NOTES:

The following notes apply to the SAT field on G.4 forms:

BA - Low Ruggedness Relay

CA	-	Chatter Acceptable
CNA	-	Chatter Not Acceptable
NV	-	Not Vulnerable to Contact Chatter
GERS	-	Seismically adequate per the referenced GERS Number
NA	-	Component not affected by relays
CR	-	Corrective Action Required
OA	-	Operator Action
EVAL	-	Evaluated using other seismic test reports, etc.

Example Cases:

- Where SAT = 'CA' and Chatter Evaluation = 'Rugged - ...', relay is seismically adequate per GERS or testing. In addition to the individual device ruggedness, the device function(s) is(are) also bypassed or blocked as noted by other seismically rugged devices.
- Where SAT = 'CA' and Chatter Evaluation = 'CA - ...', chatter is acceptable for the non-essential device and the device has no other circuit interfaces of concern with other devices.
- Where SAT = 'GERS-RLY-....' and Chatter Evaluation = 'GERS - Seismically adequate per GERS.', the essential device is screened based on the referenced GERS in the SAT field and depends on no further devices to be seismically adequate.
- Where SAT = "EVAL (xxxxx)", xxxxx is the reference to the documentation or method used to seismically evaluate the essential device.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - RELAY TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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Table 5-1-01
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OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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Table 5-1-01
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Table 5-1-01
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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **CT-1**

SUB SYSTEM: **Protective Relaying**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
50B/CT1 XFMR CT1 INSTANTANEOUS OC RLY	OEE-071 Rev 11	GENERAL-ELECTRIC CHC11A21 1EB2	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
51TN/CT1(230KV) XFMR CT1 230 KV/NEUTRAL OC RLY	OEE-071 Rev 11	WESTINGHOUSE CO-7 (1875252) 1EB2	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51TN/CT1(4160V) XFMR CT1 4.16 KV/NEUTRAL OC RLY	OEE-071 Rev 11	WESTINGHOUSE CO-7 (1875253) 1EB2	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51TN/CT1(6900V) XFMR CT1 6.9 KV/NEUTRAL OC RLY	OEE-071 Rev 11	WESTINGHOUSE CO-7 (1875253) 1EB2	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B1/PCB-17 PCB 17 AUX BKR FAIL RLY	OEE-071 Rev 11	STRUTHERS-DUNN 219BBXP 1EB2	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B1/PCB-18 PCB 18 AUX BKR FAIL RLY	OEE-071 Rev 11	STRUTHERS-DUNN 219BBXP 1EB2	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86/CT1 CT1 XFMR LOCKOUT RLY	OEE-071 Rev 11	GENERAL-ELECTRIC HEA61C245 1EB2	GERS-RLY-ALO.2 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			
87T/CT1(X) CT1 XFMR DIFF RLY (X PHASE)	OEE-071 Rev 11	WESTINGHOUSE HU-1 (Low Ruggedness) 1EB2	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay .</i>			
87T/CT1(Y) CT1 XFMR DIFF RLY (Y PHASE)	OEE-071 Rev 11	WESTINGHOUSE HU-1 (Low Ruggedness) 1EB2	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay .</i>			
87T/CT1(Z) CT1 XFMR DIFF RLY (Z PHASE)	OEE-071 Rev 11	WESTINGHOUSE HU-1 (Low Ruggedness) 1EB2	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay .</i>			
87TB/CT1(X) CT1 XFMR 230KV SUPPLY BUS DIFF RLY (X PHASE)	OEE-071 Rev 11	GENERAL-ELECTRIC PVD21D/NON-OP 1EB2	GERS-RLY-PPM.4 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: CT-1

SUB SYSTEM: Protective Relaying

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
87TB/CT1(Y) CT1 XFMR 230KV SUPPLY BUS DIFF RLY (Y PHASE)	OEE-071 Rev 11	GENERAL-ELECTRIC PVD21D/NON-OP 1EB2	GERs-RLY-PPM.4 AB 822
<i>GERs - Seismically Adequate Per GERs.</i>			
87TB/CT1(Z) CT1 XFMR 230KV SUPPLY BUS DIFF RLY (Z PHASE)	OEE-071 Rev 11	GENERAL-ELECTRIC PVD21D/NON-OP 1EB2	GERs-RLY-PPM.4 AB 822
<i>GERs - Seismically Adequate Per GERs.</i>			
1DIA-08/MCB 125V PPB 1DIA BKR 08 (CT1 LOCKOUT)	OEE-071 Rev 11	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
86BU1 U1 STUP BUS LOCKOUT RLY	OEE-117-28 Rev 9	ELECTRO-SWITCH LOR (SERIES 24) 1TCPA	GERs-RLY-ALO.2 L1 TB 796
<i>GERs - Seismically Adequate Per GERs.</i>			
87BU1(X) U1 STUP BUS DIFF RLY (X PHASE)	OEE-117-28 Rev 9	GENERAL-ELECTRIC PVD11C11A (Low Ruggedness) 1TCPA	BA TB 796
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate The Unit Start-Up Bus And CT.</i>			
87BU1(Y) U1 STUP BUS DIFF RLY (Y PHASE)	OEE-117-28 Rev 9	GENERAL-ELECTRIC PVD11C11A (Low Ruggedness) 1TCPA	BA TB 796
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate The Unit Start-Up Bus And CT.</i>			
87BU1(Z) U1 STUP BUS DIFF RLY (Z PHASE)	OEE-117-28 Rev 9	GENERAL-ELECTRIC PVD11C11A (Low Ruggedness) 1TCPA	BA TB 796
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate The Unit Start-Up Bus And CT.</i>			
RAR/1 CT1 STUP BUS DIFF TIME DELAY LOCKOUT INITIATE RLY	OEE-117-28 Rev 9	AGASTAT 7012 PA 1TCPA	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1DIA-31/MCB 125V PPB 1DIA BKR 31 (86BU1 LOCKOUT)	OEE-117-28 Rev 9	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **CT-1**

SUB SYSTEM: **Transformer Cooling**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
8-1(CT1) 600V DISC SWITCH FOR NORM FDR TO XFMR CT1 FANS <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC HC1 (600V) (20 A) CT1	NV YD 796
88-F1A(CT1) 600V FAN MTR A FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F1B(CT1) 600V FAN MTR B FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F1C(CT1) 600V FAN MTR C FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F1D(CT1) 600V FAN MTR D FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F1E(CT1) 600V FAN MTR E FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F1F(CT1) 600V FAN MTR F FOR CT1 COOL FAN BANK #1 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F2G(CT1) 600V FAN MTR G FOR CT1 COOL FAN BANK #2 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F2H(CT1) 600V FAN MTR H FOR CT1 COOL FAN BANK #2 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F2J(CT1) 600V FAN MTR J FOR CT1 COOL FAN BANK #2 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
88-F2K(CT1) 600V FAN MTR K FOR CT1 COOL FAN BANK #2 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **CT-1**

SUB SYSTEM: **Transformer Cooling**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
88-F2L(CT1) 600V FAN MTR L FOR CT1 COOL FAN BANK #2 WITH THERMO-TECTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC (1/3 HP) CT1	CA YD 796
89-E(CT1) CT1 AUTOMATIC THROW OVER SWITCH (EMERG) <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC CR109C002BAD CT1	CA YD 796
89-N(CT1) CT1 AUTOMATIC THROW OVER SWITCH (NORM) <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC CR109C002BAD CT1	CA YD 796
49(CT1) CT1 THERMAL RLY <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	QUALITROL AWR-102 (348A476H12) CT1	CA YD 796
83-1(CT1) CT1 PWR CONTROL XFER RLY <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	AGASTAT 2432 ABB CT1	CA YD 796
83-2(CT1) CT1 PWR CONTROL XFER RLY <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	AGASTAT 2432 ABB CT1	CA YD 796
83-3(CT1) CT1 PWR CONTROL XFER RLY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	AGASTAT 2412 AC CT1	CA YD 796
83-4(CT1) CT1 PWR CONTROL XFER RLY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	AGASTAT 2412 AC CT1	CA YD 796
4(CT1) CT1 FAN MAGNETIC CONTACTOR <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC CR105C CT1	CA YD 796
1XB-01BB/(CT1)/MCB 600V MCC 1XB BKR 01BB (XFMR CT1 FANS) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-A Rev 34	GENERAL-ELECTRIC THEF (70 A) 1XB	NV AB 809
52-1(CT1) 600V BKR (CT1 COOL FAN BANK #1) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 300-17 Rev 4	GENERAL-ELECTRIC TEF (15 A) CT1	NV YD 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **CT-1**SUB SYSTEM: **Transformer Cooling**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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52-2(CT1) 600V BKR (CT1 COOL FAN BANK #2)	OM 300-17 Rev 4	GENERAL-ELECTRIC TEF (15 A) CT1	NV YD 796
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: CT-4

SUB SYSTEM: Protective Relaying

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
51TN/CT4 XFMR CT4 NEUTRAL OC RLY	OEE-078 Rev 5	WESTINGHOUSE CO-7 (1875253) 1EB1	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86/CT4 CT4 XFMR LOCKOUT RLY	OEE-078 Rev 5	GENERAL-ELECTRIC HEA61B238 1EB1	GERS-RLY-ALO.2 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			
87T/CT4(X) CT4 XFMR DIFF RLY (X PHASE)	OEE-078 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 1EB1	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay.</i>			
87T/CT4(Y) CT4 XFMR DIFF RLY (Y PHASE)	OEE-078 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 1EB1	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay.</i>			
87T/CT4(Z) CT4 XFMR DIFF RLY (Z PHASE)	OEE-078 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 1EB1	BA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate CT By Operating It's 86CT Lockout Relay.</i>			
1DID-08/MCB 125V PPB 1DID BKR 08 (CT4 LOCKOUT)	OEE-078 Rev 5	ITE EH2 (20 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **CT-4**

SUB SYSTEM: **Transformer Cooling**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
88F-1A(CT4) 240V FAN MTR A FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-1B(CT4) 240V FAN MTR B FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-1C(CT4) 240V FAN MTR C FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-1D(CT4) 240V FAN MTR D FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-1E(CT4) 240V FAN MTR E FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-1F(CT4) 240V FAN MTR F FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-2G(CT4) 240V FAN MTR G FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-2H(CT4) 240V FAN MTR H FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-2J(CT4) 240V FAN MTR J FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-2K(CT4) 240V FAN MTR K FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
88F-2L(CT4) 240V FAN MTR L FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: CT-4

SUB SYSTEM: Transformer Cooling

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
88F-2M(CT4) 240V FAN MTR M FOR CT4 WITH THERMO-TECTOR	OM 300-42 Rev 5	WESTINGHOUSE SLISS/309P513 CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
2-1(CT4) CT4 PWR CONTROL XFER RLY	OM 300-42 Rev 5	POTTER-BRUMFIELD PR 11AY CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
2-2(CT4) CT4 PWR CONTROL XFER RLY	OM 300-42 Rev 5	POTTER-BRUMFIELD PR 11AY CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
2-3(CT4) CT4 PWR CONTROL XFER RLY	OM 300-42 Rev 5	POTTER-BRUMFIELD PR 11AY CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
2-4(CT4) CT4 PWR CONTROL XFER RLY	OM 300-42 Rev 5	POTTER-BRUMFIELD PR 11AY CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
49-1(CT4) CT4 THERMOSTAT	OM 300-42 Rev 5	WESTINGHOUSE NOT FOUND CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
4-1(CT4) CT4 COOL FAN BANK #1 CONTACTOR	OM 300-42 Rev 5	WESTINGHOUSE A201KICA CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
4-2(CT4) CT4 COOL FAN BANK #2 CONTACTOR	OM 300-42 Rev 5	WESTINGHOUSE A201KICA CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
4-3(CT4) CT4 NORM PWR SUPP CONTACTOR (COOL FANS)	OM 300-42 Rev 5	WESTINGHOUSE NOT FOUND CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
4-4(CT4) CT4 EM PWR SUPP CONTACTOR (COOL FANS)	OM 300-42 Rev 5	WESTINGHOUSE NOT FOUND CT4	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS1-F02B/MCB 600V MCC 1XS1 BKR F02B (XFMR CT4 FANS NORM FDR)	O-703-G Rev 47	GENERAL-ELECTRIC THEF (20A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: CT-4

SUB SYSTEM: Transformer Cooling

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
8-1(CT4) 600V BKR FOR NORM FDR TO XFMR CT4 FANS	OM 300-42 Rev 5	WESTINGHOUSE 368D451G25 CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
8-2(CT4) 600V BKR FOR EM FDR TO XFMR CT4 FANS	OM 300-42 Rev 5	WESTINGHOUSE 368D451G25 CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
8-3(CT4) 240V BKR FOR XFMR CT4 FANS CONTROLS	OM 300-42 Rev 5	WESTINGHOUSE 15A CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
8-4(CT4) 240V BKR FOR XFMR CT4 FANS CONTROLS	OM 300-42 Rev 5	WESTINGHOUSE 15A CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
8-5(CT4) 240V BKR FOR XFMR CT4 FANS CONTROLS	OM 300-42 Rev 5	WESTINGHOUSE 15A CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
8-6(CT4) 240V BKR FOR CT4 COOL FAN BANKS	OM 300-42 Rev 5	WESTINGHOUSE HA (30A) CT4	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: CT-5

SUB SYSTEM: Protective Relaying

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
51TN/CT5 CT5 XFMR NEUTRAL OC RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-079-01 Rev 5	WESTINGHOUSE CO-7 (1875253) 2EB1	EVAL (OSC-6642) AB 822
51TN/CT5(4160 V) CT5 XFMR 4 KV NEUTRAL OC RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-079-01 Rev 5	WESTINGHOUSE CO-7 (1875253) 2EB1	EVAL (OSC-6642) AB 822
86T/CT5 CT5 XFMR LOCKOUT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-079-01 Rev 5	GENERAL-ELECTRIC HEA61B238 2EB1	GERS-RLY-ALO.2 AB 822
87T/CT5(X) CT5 XFMR DIFF RLY (X PHASE) <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate Standby Bus.</i>	OEE-079-01 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 2EB1	BA AB 822
87T/CT5(Y) CT5 XFMR DIFF RLY (Y PHASE) <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate Standby Bus.</i>	OEE-079-01 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 2EB1	BA AB 822
87T/CT5(Z) CT5 XFMR DIFF RLY (Z PHASE) <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Isolate Standby Bus.</i>	OEE-079-01 Rev 5	WESTINGHOUSE HU (Low Ruggedness) 2EB1	BA AB 822
1DIB-08/MCB 125V PPB 1DIB BKR 08 (CT5 LOCKOUT) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-079-01 Rev 5	ITE EH2 (20 A) 1DIB/PPB	NV AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **Emergency Power (230KV Switchyard)**SUB SYSTEM: **Synchronizing and Undervoltage Circuits**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
SS/PCB-08 PCB-08 SYNC RELAY	OEE-038-E Rev 0	STRUTHERS-DUNN 219BBXP 2EF3	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-09 PCB-09 SYNC RELAY	OEE-039-E Rev 0	STRUTHERS-DUNN 219BBXP 2EF3	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-12 PCB-12 SYNC RELAY	OEE-042-E Rev 1	STRUTHERS-DUNN 219BBXP 2EF3	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-15 PCB-15 SYNC RELAY	OEE-045-E Rev 1	STRUTHERS-DUNN 219BBXP 2EF3	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-17 PCB-17 SYNC RELAY	OEE-047-E Rev 0	STRUTHERS-DUNN 219BBXP 2EF2	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
27/CTX DEGRADED GRID AUX UV RELAY	OEE-048-E Rev 1	CUTLER-HAMMER D26MRD704A1 2AT8	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Actuate The EGPS And Cannot Block Its Actuation.</i>			
27/CTX1 DEGRADED GRID AUX UV RELAY	OEE-048-E Rev 1	CUTLER-HAMMER D26MRD704A1 2AT8	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Actuate The EGPS And Cannot Block Its Actuation.</i>			
27/CTXTD DEGRADED GRID TIMER RLY	OEE-048-E Rev 1	CUTLER-HAMMER D87XDL30 2AT8	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27/CTXTD1 DEGRADED GRID TIMER RLY	OEE-048-E Rev 1	CUTLER-HAMMER D87XDL30 2AT8	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27CT1 DEGRADED GRID UNDERVOLTAGE RELAY	OEE-048-E Rev 1	ABB 27N 2AT8	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Actuate The EGPS And Cannot Block Its Actuation.</i>			
27CT2 DEGRADED GRID UNDERVOLTAGE RELAY	OEE-048-E Rev 1	ABB 27N 2AT8	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Actuate The EGPS And Cannot Block Its Actuation.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **Emergency Power (230KV Switchyard)**SUB SYSTEM: **Synchronizing and Undervoltage Circuits**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
27CT3	OEE-048-E Rev 1	ABB	CA
DEGRADED GRID UNDERVOLTAGE RELAY		27N	AB
		2AT8	809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Actuate The EGPS And Cannot Block Its Actuation.</i>			
SS/PCB-18	OEE-048-E Rev 1	STRUTHERS-DUNN	CA
PCB-18 SYNC RELAY		219BBXP	AB
		2EF2	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
25/PCB-21	OEE-051-E Rev 0	BASLER	CA
PCB-21 SYNC RELAY		BE1-25-MIFA 6PN4 ROF	AB
		1EB3	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
25/PCB-24	OEE-054-E Rev 0	BASLER	CA
PCB-24 SYNC RELAY		BE1-25	AB
		2EB3	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-26	OEE-056-E Rev 0	STRUTHERS-DUNN	CA
PCB-26 SYNC RELAY		219BBXP	AB
		1EF1	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-27	OEE-057-E Rev 0	STRUTHERS-DUNN	CA
PCB-27 SYNC RELAY		219BBXP	AB
		1EF1	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-28	OEE-058-E Rev 0	STRUTHERS-DUNN	CA
PCB-28 SYNC RELAY		219BBXP	AB
		1EF1	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-30	OEE-060-E Rev 0	STRUTHERS-DUNN	CA
PCB-30 SYNC RELAY		219BBXP	AB
		1EF1	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
SS/PCB-33	OEE-063-E Rev 0	STRUTHERS-DUNN	CA
PCB-33 SYNC RELAY		219BBXP	AB
		1EF2	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
41MX/1	OEE-110 Rev 9	GENERAL-ELECTRIC	CA
GENERATOR 1 FIELD BKR AUX RELAY		12HFA54B187H	TB
		ALTEREX CUBICLE	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
41MX/2	OEE-210 Rev 6	GENERAL-ELECTRIC	CA
GENERATOR 2 FIELD BKR AUX RELAY		12HFA54B187H	TB
		ALTEREX CUBICLE	822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: HVAC

SUB SYSTEM: BIT & B2T ENCLOSURE FANS

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1VSAH-B1T-EV-A**

BIT & B2T ENCLOSURE VENT FAN A

RSC-1KSG-03/MS 208V PPB 1KSG-03 REMOTE STARTER (BIT ENCLOSURE VENT FAN A)	OEE-131-08 Rev 1	CLARK X13TB31 RSC-1KSG-03/ENCL	CA BH 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-03/MCB 208V PPB 1KSG BKR 03 (BIT & B2T ENCLOSURE VENT FAN A)	OEE-131-08 Rev 1	GENERAL-ELECTRIC THQL (15 A) 1KSG	NV BH 796
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*NV - Not Vulnerable To Contact Chatter.***1VSAH-B1T-EV-B**

BIT & B2T ENCLOSURE VENT FAN B

RSC-1KSG-04/MS 208V PPB 1KSG-04 REMOTE STARTER (BIT ENCLOSURE VENT FAN B)	OEE-131-08 Rev 1	CLARK X13TB31 RSC-1KSG-04/ENCL	CA BH 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-04/MCB 208V PPB 1KSG BKR 04 (BIT & B2T ENCLOSURE VENT FAN B)	OEE-131-08 Rev 1	GENERAL-ELECTRIC THQL (15 A) 1KSG	NV BH 796
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NV - Not Vulnerable To Contact Chatter.

SGFR BIT & B2T ENCLOSURE VENT FANS AUX RELAY	OEE-131-08 Rev 1	CUTLER-HAMMER D23MR40A SGFSP	CA BH 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

SGTS BIT & B2T ENCLOSURE VENT FANS THERMOSTAT	OEE-131-08 Rev 1	A.C. CONTROLS 602-5BS SGFSP	CA BH 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-13/MCB 208V PPB 1KSG BKR 13 (BIT & B2T ENCLOSURE VENT FANS CTRLS)	OEE-131-08 Rev 1	GENERAL-ELECTRIC TQL (15 A) 1KSG	NV BH 796
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: HVAC

SUB SYSTEM: CT4 ENCLOSURE FANS

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1VSAH-CT4-EV-A**

CT4 ENCLOSURE VENT FAN A

RSC-1KSG-01/MS	OEE-131-09 Rev 1	CLARK	CA
208V PPB 1KSG-02 REMOTE STARTER (CT4		X13TB31	BH
ENCLOSURE VENT FAN A)		U1/U2 BLOCKHOUSE	796

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-01/MCB	OEE-131-09 Rev 1	GENERAL-ELECTRIC	NV
208V PPB 1KSG BKR 01 (CT4 ENCLOSURE VENT FAN		THQL (15 A)	BH
A)		1KSG	796

*NV - Not Vulnerable To Contact Chatter.***1VSAH-CT4-EV-B**

CT4 ENCLOSURE VENT FAN B

RSC-1KSG-02/MS	OEE-131-09 Rev 1	CLARK	CA
208V PPB 1KSG-02 REMOTE STARTER (CT4		X13TB31	BH
ENCLOSURE VENT FAN B)		U1/U2 BLOCKHOUSE	796

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-02/MCB	OEE-131-09 Rev 1	GENERAL-ELECTRIC	NV
208V PPB 1KSG BKR 02 (CT4 ENCLOSURE VENT FAN		THQL (15 A)	BH
B)		1KSG	796

NV - Not Vulnerable To Contact Chatter.

CT4FR	OEE-131-09 Rev 1	CUTLER-HAMMER	CA
CT4 ENCLOSURE VENT FANS AUX RELAY		D23MR40A	BH
		CT4FSP	796

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

CT4TS	OEE-131-09 Rev 1	A.C. CONTROLS	CA
CT4 ENCLOSURE VENT FANS THERMOSTAT		602-5BS	BH
		U1/U2 BLOCKHOUSE	796

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1KSG-14/MCB	OEE-131-09 Rev 1	GENERAL-ELECTRIC	NV
208V PPB 1KSG BKR 14 (CT4 ENCLOSURE VENT FANS		TQL (15 A)	BH
CTRLS)		1KSG	796

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: HVAC

SUB SYSTEM: U1 & U2 CONTROL ROOM FANS

Component ID Name	Ref Dwg/Revision	Manufacturer Model no Location	SAT* Building Floor Elev
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*Chatter Evaluation***1VSAH0026**

OUTSIDE AIR BOOSTER FAN 'A' (F-22)

CD-10A BOOSTER FAN "A" INLET DAMPER (UNIT 1&2)	OEE-131-61 Rev 1	RUSKIN CD 60 CD-10A	NV AB 838'+0"
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NV - Not Vulnerable To Contact Chatter.

1XR-05C/MS 600V MCC 1XR-05C STARTER (1VSAH0026 OUTSIDE AIR BOOSTER FAN A)	OEE-131-65 Rev 0	CLARK BUL 6013 CY-1 (A1) 1XR	CA AB 838
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1XR-05C/MCB 600V MCC 1XR BKR 5C (1VSAH0026 OUTSIDE AIR BOOSTER FAN A)	OEE-131-65 Rev 0	GENERAL-ELECTRIC THEF (65/165 A) 1XR	NV AB 838
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*NV - Not Vulnerable To Contact Chatter.***1VSAH0027**

OUTSIDE AIR BOOSTER FAN 'B' (F-23)

CD-10B BOOSTER FAN "B" INLET DAMPER (UNIT 1&2)	OEE-131-61 Rev 1	RUSKIN CD 60 CD-10B	NV AB 838'+0"
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NV - Not Vulnerable To Contact Chatter.

2XR-01B/MS 600V MCC 2XR-01B STARTER (1VSAH0027 OUTSIDE AIR BOOSTER FAN B)	OEE-131-01 Rev 3	CLARK BUL 6220 CY-3 2XR	CA AB 838
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

2XR-01B/MCB 600V MCC 2XR BKR 01B (1VSAH0027 OUTSIDE AIR BOOSTER FAN B)	OEE-131-01 Rev 3	GENERAL-ELECTRIC THED (65/165 A) 2XR	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

1KG-21/MCB 120V PPB 1KG BREAKER 21 (CD-10A & B)	OEE-131-61 Rev 1	GENERAL-ELECTRIC TQL (20 A) 1KG	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

1VSDT0001 CHLORINE GAS SENSOR (U1 CTRL ROOM INTAKE)	OEE-131-66 Rev 0	MINE SAFETY 5100 1VSDT0001	NV AB 838'+0"
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NV - Not Vulnerable To Contact Chatter.

BFI/GD/U1 CHLORINE GAS DETECTOR (CDI) FOR UNIT 1-2 CONTROL ROOM	OEE-131-66 Rev 0	MINE SAFETY 5100 0VSMN0001	CA AB 838
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **HVAC**

SUB SYSTEM: **U1 & U2 CONTROL ROOM FANS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
CDR1(U1) CHLORINE GAS DETECTOR AUX RELAY	OEE-131-66 Rev 0	CUTLER-HAMMER D26MR80A 1AT5	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1KG-34/MCB 120V PPB 1KG BKR 34 (POWER TO CHLORINE DETECTOR 1VSTD0001)	OEE-131-66 Rev 0	GENERAL-ELECTRIC TQL (10 A) 1KG	NV AB 838
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Keowee SK Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
B1T-05 4KV SWGR B1T BKR 05 (STBY BKR SK1)	OEE-117-06 Rev 12	ITE 5HK-350 (3000 A) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
25SK1(B1T-05) U0 STBY BUS 1 FDR (SK1) SYNC RLY	OEE-117-06-A Rev 11	WESTINGHOUSE CVE-1 (292B353A17) B1T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50BSK1(B1T-05) U0 STBY BUS 1 FDR (SK1) INSTANTANEOUS OC RLY	OEE-117-06 Rev 12	GENERAL-ELECTRIC CHC11A21A B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(B1T-05) U0 STBY BUS 1 FDR (SK1) GROUND OC RLY	OEE-117-06 Rev 12	WESTINGHOUSE CO-6 (1876904) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B1T-05) U0 STBY BUS 1 FDR (SK1) OC RLY (X PHASE)	OEE-117-06 Rev 12	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Y(B1T-05) U0 STBY BUS 1 FDR (SK1) OC RLY (Y PHASE)	OEE-117-06 Rev 12	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(B1T-05) U0 STBY BUS 1 FDR (SK1) OC RLY (Z PHASE)	OEE-117-06 Rev 12	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62BSK1(B1T-05) U0 STBY BUS 1 BKR (SK1) FAIL TIMER RLY	OEE-117-06-A Rev 11	WESTINGHOUSE TD-5 (293B301A30) B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXS1(B1T-05) U0 STBY BUS 1 BKR (SK1) FAIL AUX RLY	OEE-117-06-A Rev 11	WESTINGHOUSE AR (606B029A09) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
94SK1(B1T-05) U0 STBY BUS 1 FDR (SK1) AUX TRIP RLY	OEE-117-06-A Rev 11	WESTINGHOUSE AR (606B017A09) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
CIR-SK1(B1T-05) U0 STBY BUS 1 FDR (SK1) CLOSE RLY	OEE-117-06-A Rev 11	CUTLER-HAMMER D26MRD30A1 B1T	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Keowee SK Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1DIC-25/MCB 125V PPB 1DIC BKR 25 (4KV SWGR B1T 5-10 TRIP)	OEE-117-06-A Rev 11	ITE EH2 (50 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DID-25/MCB 125V PPB 1DID BKR 25 (4KV SWGR B1T 5-10 CLOSE/TRIP)	OEE-117-06-A Rev 11	ITE EH2 (50 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RX/1 U1 STBY FDR BUS BKR (SK1) AUX CLOSE RLY	OEE-117-06-B Rev 5	CUTLER-HAMMER D23MRD70A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
2RX/1 U2 STBY FDR BUS BKR (SK1) AUX CLOSE RLY	OEE-117-06-B Rev 5	CUTLER-HAMMER D23MRD70A1 2EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
3RX/1 U3 STBY FDR BUS BKR (SK1) AUX CLOSE RLY	OEE-117-06-B Rev 5	CUTLER-HAMMER D23MRD70A1 3EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
SK1/CP U0 STBY BUS 1 FDR (SK1) CLOSE PERMISSIVE RLY	OEE-117-06-B Rev 5	STRUTHERS-DUNN 219DXBP B1T	GERS-RLY-ARS.4 BH 796
B2T-09 4KV SWGR B2T BKR 09 (STBY BKR SK2)	OEE-117-23 Rev 15	ITE 5HK-350 (3000 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
25SK2(B2T-09) U0 STBY BUS 2 FDR (SK2) SYNC RLY	OEE-117-23-A Rev 13	WESTINGHOUSE CVE-1 (292B353A17) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50BSK2(B2T-09) U0 STBY BUS 2 FDR (SK2) INSTANTANEOUS OC RLY	OEE-117-23 Rev 15	GENERAL-ELECTRIC CHC11A21A B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(B2T-09) U0 STBY BUS 2 FDR (SK2) GROUND OC RLY	OEE-117-23 Rev 15	WESTINGHOUSE CO-6 (1876904) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B2T-09) U0 STBY BUS 2 FDR (SK2) OC RLY (X PHASE)	OEE-117-23 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Keowee SK Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
51Y(B2T-09) U0 STBY BUS 2 FDR (SK2) OC RLY (Y PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-23 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
51Z(B2T-09) U0 STBY BUS 2 FDR (SK2) OC RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-23 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
62BSK2(B2T-09) U0 STBY BUS 2 BKR (SK2) FAIL TIMER RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-23-A Rev 13	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
62BXS2(B2T-09) U0 STBY BUS 2 BKR (SK2) FAIL AUX RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-23-A Rev 13	WESTINGHOUSE AR (606B029A09) B2T	EVAL (OSC-6642) BH 796
86CT4X(B2T-09) CT4 XFMR LOCKOUT AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-23-A Rev 13	CUTLER-HAMMER D23MRD70A1 B2T	GERS-RLY-AI2.4 BH 796
94SK2(B2T-09) U0 STBY BUS 2 FDR (SK2) AUX TRIP RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-23-A Rev 13	WESTINGHOUSE AR (606B017A09) B2T	EVAL (OSC-6642) BH 796
CIR-SK2(B2T-09) U0 STBY BUS 2 FDR (SK2) CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-23-A Rev 13	CUTLER-HAMMER D26MRD30A1 B2T	GERS-RLY-AI2.4 BH 796
1DIC-26/MCB 125V PPB 1DIC BKR 26 (4KV SWGR B2T 5-9 TRIP) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-23-A Rev 13	ITE EH2 (50 A) 1DIC/PPB	NV AB 809
1DID-27/MCB 125V PPB 1DID BKR 27 (4KV SWGR B2T 5-9 CLOSE/TRIP) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-23-A Rev 13	ITE EH2 (50 A) 1DID/PPB	NV AB 809
1RX/2 U1 STBY FDR BUS BKR (SK2) AUX CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-23-B Rev 6	CUTLER-HAMMER D23MRD70A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
2RX/2 U2 STBY FDR BUS BKR (SK2) AUX CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-23-B Rev 6	CUTLER-HAMMER D23MRD70A1 2EPSLP2	GERS-RLY-AI2.4 AB 809

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Keowee SK Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
3RX/2 U3 STBY FDR BUS BKR (SK2) AUX CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-23-B Rev 6	CUTLER-HAMMER D23MRD70A1 3EPSLP2	GERS-RLY-AI2.4 AB 809
SK2/CP U0 STBY BUS 2 FDR (SK2) CLOSE PERMISSIVE RLY	OEE-117-23-B Rev 6	STRUTHERS-DUNN 219DXBP B2T	GERS-RLY-ARS.4 BH 796

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Lee SL Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
BIT-09 4KV SWGR BIT BKR 09 (STBY BKR SL1)	OEE-117-10 Rev 14	ITE 5HK-350 (3000 A) BIT	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27SL1(BIT-09) STBY BUS 1 FDR UV RLY	OEE-117-10-B Rev 7	ABB 27N 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Does Not Effect Devices Required By SSEL.</i>			
50BSL1(BIT-09) U0 STBY BUS 1 FDR INSTANTANEOUS OC RLY	OEE-117-10 Rev 14	GENERAL-ELECTRIC CHC11A21A BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BSL1(BIT-09) BKR FAIL TIMER RLY (SL1)	OEE-117-10-A Rev 5	WESTINGHOUSE TD-5 (293B301A30) BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXSL1(BIT-09) BKR FAIL AUX RLY (SL1)	OEE-117-10-A Rev 5	WESTINGHOUSE AR (606B029A09) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62CT5/1(BIT-09) BKR FAIL AUX RLY (CT5)	OEE-117-10-B Rev 7	CUTLER-HAMMER D26MRD70A1/D87XEL30 2TB-1001	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94SL1(BIT-09) FDR BKR AUX TRIP RLY (SL1)	OEE-117-10-A Rev 5	WESTINGHOUSE AR (606B017A09) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
SLF1A STBY BUS UV AUX RLY	OEE-117-10-B Rev 7	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
SLF1B STBY BUS UV AUX RLY	OEE-117-10-B Rev 7	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
SLP1A STBY BUS UV AUX RLY (BKR SK PERMISSIVE)	OEE-117-10-B Rev 7	CUTLER-HAMMER D23MRD30A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
SLP1B STBY BUS UV AUX RLY (BKR SK PERMISSIVE)	OEE-117-10-B Rev 7	CUTLER-HAMMER D23MRD30A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Lee SL Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
SLXB PERMISSIVE TRIP CKT FOR XFMRs X5 & X6	OEE-117-10-B Rev 7	CUTLER-HAMMER D26MRD70A1 B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
B2T-05 4KV SWGR B2T BKR 05 (STBY BKR SL2)	OEE-117-19 Rev 15	ITE 5HK-350 (3000 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27SL2 STBY BUS 2 FDR UV RLY	OEE-117-19-B Rev 6	ABB 27N 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Does Not Effect Devices Required By SSEL.</i>			
50BSL2(B2T-05) U0 STBY BUS 2 FDR INSTANTANEOUS OC RLY	OEE-117-19 Rev 15	GENERAL-ELECTRIC CHC11A21A B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BSL2(B2T-05) BKR FAIL TIMER RLY (SL2)	OEE-117-19-A Rev 9	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXSL2(B2T-05) BKR FAIL AUX RLY (SL2)	OEE-117-19-A Rev 9	WESTINGHOUSE AR (606B029A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62CT5/2(B2T-05) BKR FAIL AUX RLY (CT5)	OEE-117-19-B Rev 6	CUTLER-HAMMER D26MRD70A1/D87XEL30 2TB-1001	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94SL2(B2T-05) FDR BKR AUX TRIP RLY (SL2)	OEE-117-19-A Rev 9	WESTINGHOUSE AR (606B017A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
SLF2A STBY BUS UV AUX RLY	OEE-117-19-B Rev 6	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
SLF2B STBY BUS UV AUX RLY	OEE-117-19-B Rev 6	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
SLP2A STBY BUS UV AUX RLY (BKR SK PERMISSIVE)	OEE-117-19-B Rev 6	CUTLER-HAMMER D23MRD30A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Lee SL Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
SLP2B STBY BUS UV AUX RLY (BKR SK PERMISSIVE) <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-19-B Rev 6	CUTLER-HAMMER D23MRD30A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
SLXA PERMISSIVE TRIP CKT FOR XFMRS X5 & X6 <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-19-B Rev 6	CUTLER-HAMMER D26MRD70A1 B2T	CA BH 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Protective Relaying**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
86SB1(B1T-07) STBY BUS 1 LOCKOUT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-08-A Rev 11	GENERAL-ELECTRIC HEA61C240 B1T	GERS-RLY-ALO.2 BH 796
86XSB1(B1T-06) STBY BUS 1 LOCKOUT AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-08-A Rev 11	WESTINGHOUSE MG-6/NO (288B977A19) B1T	GERS-RLY-ARH.5 BH 796
86XXSB1(B1T-06) STBY BUS 1 LOCKOUT AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-08-A Rev 11	CUTLER-HAMMER D23MRD70A1 B1T	CA BH 796
87SB1(X)(B1T-07) STBY BUS 1 DIFF RLY (X PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-08 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
87SB1(Y)(B1T-07) STBY BUS 1 DIFF RLY (Y PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-08 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
87SB1(Z)(B1T-07) STBY BUS 1 DIFF RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-08 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
62SB1(B1T-07) STANDBY BUS 1 BKR FAIL TIMER RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-08-B Rev 3	WESTINGHOUSE TD-5 (293B301A25) 1KESP	EVAL (OSC-6642) AB 809
86SB2(B2T-07) STBY BUS 2 LOCKOUT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-21-A Rev 10	GENERAL-ELECTRIC HEA61C240 B2T	GERS-RLY-ALO.2 BH 796
86XSB2(B2T-06) STBY BUS 2 LOCKOUT AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-21-A Rev 10	WESTINGHOUSE MG-6/NO (288B977A19) B2T	GERS-RLY-ARH.5 BH 796
86XXSB2(B2T-07) STBY BUS 2 LOCKOUT AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-21-A Rev 10	CUTLER-HAMMER D23MRD70A1 B2T	CA BH 796
87SB2(X)(B2T-07) STBY BUS 2 DIFF RLY (X PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-21 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **STANDBY FEEDER BUS**SUB SYSTEM: **Protective Relaying**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
87SB2(Y)(B2T-07) STBY BUS 2 DIFF RLY (Y PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-21 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796
87SB2(Z)(B2T-07) STBY BUS 2 DIFF RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-21 Rev 8	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796
62SB2(B2T-07) STANDBY BUS 2 BKR FAIL TIMER RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-21-B Rev 3	WESTINGHOUSE TD-5 (293B301A25) 1KESP	EVAL (OSC-6642) AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 Auxiliary Service Water

SUB SYSTEM: AC PWR

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
B1T-10 4KV SWGR B1T BKR 10 (ASWS BKR)	OEE-117-11 Rev 2	ITE 5HK-350 (1200 A) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(B1T-10) AUX SERV WATER SWGR OC RLY (X PHASE)	OEE-117-11 Rev 2	WESTINGHOUSE CO-8 (1875277) B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Breaker Is Normally De-energized And Requires Manual Closing.</i>			
50-51Z(B1T-10) AUX SERV WATER SWGR OC RLY (Z PHASE)	OEE-117-11 Rev 2	WESTINGHOUSE CO-8 (1875277) B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Breaker Is Normally De-energized And Requires Manual Closing.</i>			
50G(B1T-10) AUX SERV WATER SWGR GROUND OC RLY	OEE-117-11 Rev 2	ITE GR-5 (202D6141) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
ASWS-02 4KV ASWS SWITCHGEAR UNIT 2 (500 KVA XFMR)	OEE-117-86 Rev 1	ITE 5HK-350 (1200 A) ASWS	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(ASWS-2) ASWS XFMR OC RLY (X PHASE)	OEE-117-86 Rev 1	WESTINGHOUSE CO-8 (1875277) ASWS	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Breaker Is Normally De-energized And Requires Manual Closing.</i>			
50-51Z(ASWS-2) ASWS XFMR OC RLY (Z PHASE)	OEE-117-86 Rev 1	WESTINGHOUSE CO-8 (1875277) ASWS	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Breaker Is Normally De-energized And Requires Manual Closing.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U0 Auxiliary Service Water**

SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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0CCWPU0001

AUX SERVICE WATER PUMP

ASWS-06B 600V ASW BKR 06 (ASW PUMP)	O-702-A-1 Rev 7	ITE TYPE K (600 A) ASWS	NV AB 771
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 Emergency Power Switching Logic

SUB SYSTEM: Lee SL Breakers

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
27CT5(A) CT5 UV RLY (PHASE A)	OEE-117-01-J Rev 4	BROWN BOVERI ITE-27N 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27CT5X/A CT5 UV AUX RLY	OEE-117-01-J Rev 4	CUTLER-HAMMER D26MRD70A1 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27CT5(B) CT5 UV RLY (PHASE B)	OEE-117-01-K Rev 4	BROWN BOVERI ITE-27N 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27CT5X/B CT5 UV AUX RLY	OEE-117-01-K Rev 4	CUTLER-HAMMER D26MRD70A1 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27CT5(C) CT5 UV RLY (PHASE C)	OEE-117-01-L Rev 4	BROWN BOVERI ITE-27N 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27CT5X/C CT5 UV AUX RLY	OEE-117-01-L Rev 4	CUTLER-HAMMER D26MRD70A1 2TB-1001	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 High Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
B2T-10 4KV SWGR B2T BKR 10 (HPSW STANDBY PUMP A)	OEE-117-24A Rev 3	ITE 5HK-350 (1200 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
0HPSPS0164 HPSW PUMP AUX CONTROL RELAY CR-90	OEE-028-02 Rev 12	United Electric J302-9765-453 0HPSTK0001	CA YD
<i>CA - Contact Chatter Is Acceptable Because Chatter Does Not Affect The Operation Of The Device(s).</i>			
0HPSPS0165 HPSW PUMP AUX CONTROL RELAY CR-70	OEE-028-02 Rev 12	United Electric J302-9765-453 0HPSTK0001	CA YD
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
0HPSPS0166 HPSW PUMP AUX CONTROL RELAY CR-60	OEE-028-02 Rev 12	United Electric J302-9765-453 0HPSTK0001	CA YD
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27(B2T-10) HPSW STANDBY PUMP A UV RLY	OEE-117-24A Rev 3	WESTINGHOUSE CV-2 (1875508) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(B2T-10) HPSW STANDBY PUMP A OC RLY (X PHASE)	OEE-117-24A Rev 3	WESTINGHOUSE CO-5 (1875241) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(B2T-10) HPSW STANDBY PUMP A OC RLY (Z PHASE)	OEE-117-24A Rev 3	WESTINGHOUSE CO-5 (1875241) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(B2T-10) HPSW STANDBY PUMP A GROUND OC RLY	OEE-117-24A Rev 3	ITE GR-5 (202D6141) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
CR-60 HPSW PUMP AUX CONTROL RELAY CR-60	OEE-028-02 Rev 12	CUTLER-HAMMER D23MR80A STTC	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
CR-70 HPSW PUMP AUX CONTROL RELAY CR-70	OEE-028-02 Rev 12	CUTLER-HAMMER D23MR80A STTC	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
CR-90 HPSW PUMP AUX CONTROL RELAY CR-90	OEE-028-02 Rev 12	CUTLER-HAMMER D23MR80A STTC	EVAL (GIP-2 SECTION 6.4.2) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 High Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
B1T-04 4KV SWGR B1T BKR 04 (HPSW STANDBY PUMP B)	OEE-117-05A Rev 2	ITE 5HK-350 (1200 A) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(B1T-04) HPSW STANDBY PUMP B UV RLY	OEE-117-05A Rev 2	WESTINGHOUSE CV-2 (1875508) B1T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(B1T-04) HPSW STANDBY PUMP B OC RLY (X PHASE)	OEE-117-05A Rev 2	WESTINGHOUSE CO-5 (1875241) B1T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(B1T-04) HPSW STANDBY PUMP B OC RLY (Z PHASE)	OEE-117-05A Rev 2	WESTINGHOUSE CO-5 (1875241) B1T	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(B1T-04) HPSW STANDBY PUMP B GROUND OC RLY	OEE-117-05A Rev 2	ITE GR-5 (202D6141) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XE-R01B/(0HPSPU0003)/MS 600V MCC 1XE-R01B STARTER (0HPSPU0003)	OEE-028-05 Rev 4	Clark/AO Smith BUL 6013 CY-3 1XE	EVAL (MCC QUAL) 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XE-R01B/(0HPSPU0003)/MCB 600V MCC 1XE BKR R01B (0HPSPU0003)	OEE-028-05 Rev 4	GENERAL-ELECTRIC THEF (480/1000 A) 1XE	NV 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 SSF HVAC

SUB SYSTEM: Pumps

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			

0CCWPU0003

SSF HVAC COOLING WATER PUMP 1

XSF-F02D/SSFHVACSERVWTRPUMP1/MS 600V MCC XSF-F02D STARTER (SSF HVAC SERV WTR PUMP 1)	OEE-163-10 Rev 1	GTE-SYLVANIA BUL 6200 XSF(600V)	CA SSF 797
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

XSF-F02D/SSFHVACSERVWTRPUMP1/MCB 600V MCC XSF BKR F02D (SSF HVAC SERV WTR PUMP 1)	OEE-163-10 Rev 1	GENERAL-ELECTRIC THED (50 A) XSF(600V)	NV SSF 797
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*NV - Not Vulnerable To Contact Chatter.***0CCWPU0004**

SSF HVAC COOLING WATER PUMP 2

XSF-F03B/SSFHVACSERVWTRPUMP2/MS 600V MCC XSF-F03B STARTER (SSF HVAC SERV WTR PUMP 2)	OEE-163-11 Rev 2	GTE-SYLVANIA BUL 6200 XSF(600V)	CA SSF 797
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

XSF-F03B/SSFHVACSERVWTRPUMP2/MCB 600V MCC XSF BKR F03B (SSF HVAC SERV WTR PUMP 2)	OEE-163-11 Rev 2	GENERAL-ELECTRIC THED (50 A) XSF(600V)	NV SSF 797
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U0 SSF AUX Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
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OCCWPU0002

SSF AUX SERVICE WATER PUMP

OTS1-02 4KV SWGR OTS1 (SSF ASW PUMP)	OEE-117-93-A Rev 0	ITE 5HK-350 (1200 A) OTS1	NV SSF 796
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NV - Not Vulnerable To Contact Chatter.

50-51(OTS1-02) SSF ASW PUMP OC RLY	OEE-117-93-A Rev 0	ITE ITE-51L (223T5341) OTS1	NV SSF 796
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NV - Not Vulnerable To Contact Chatter.

50G(OTS1-02) SSF ASW PUMP GROUND OC RLY RLY	OEE-117-93-A Rev 0	ITE GR-5 OTS1	NV SSF 796
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NV - Not Vulnerable To Contact Chatter.

CA(OTS1-2) SSF ASW PUMP AUX RLY	OEE-117-93-B Rev 2	CUTLER-HAMMER D26MRD40A1 SSF/IC1	CA SSF 797
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Rugged Relay Whose Contact Chatter Does Not Impact Equipment Designed To Function After SSE.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 125/250V DC PWR

SUB SYSTEM: 125V DC CONTROL PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DCA-01A/MCB 125V DC 1DCA BKR 01A (1DCA TO 1DCB)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCA-01B/MCB 125V DC 1DCA BKR 01B (1CA BATT CHGR)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCA-02A/MCB 125V DC 1DCA BKR 02A (1CA CTRL BATT)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCA-02B/MCB 125V DC 1DCA BKR 02B (1CS STBY CHGR)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS1-F04A/MCB 600V MCC 1XS1 BKR F04A (1CA BATT CHGR)	O-703-G Rev 47	GENERAL-ELECTRIC TFJ (200 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-01A/MCB 125V DC 1DCB BKR 01A (1DCB TO 1DCA)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-01B/MCB 125V DC 1DCB BKR 01B (1CB BATT CHGR)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-02A/MCB 125V DC 1DCB BKR 02A (1CB CTRL BATT)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-02B/MCB 125V DC 1DCB BKR 02B (1CS STBY CHGR)	O-705 Rev 59	GENERAL-ELECTRIC THKM (2400/8000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS2-F04D/MCB 600V MCC 1XS2 BKR F04D (1CB BATT CHGR)	O-703-G Rev 47	GENERAL-ELECTRIC TFJ (200 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCA-03A/MCB 125V DC 1DCA BKR 03A (ISOL DIODE 1ADA) (1DIA)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 125/250V DC PWR**SUB SYSTEM: **125V DC CONTROL PWR**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
2DCA-03A/MCB 125V DC 2DCA BKR 03A (ISOL DIODE 1ADA) (1DIA)	O-1705 Rev 45	GENERAL-ELECTRIC THFK (900/2000 A) 2DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCA-03B/MCB 125V DC 1DCA BKR 03B (ISOL DIODE 1ADB) (1DIB)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
2DCB-03A/MCB 125V DC 2DCB BKR 03A (ISOL DIODE 1ADB) (1DIB)	O-1705 Rev 45	GENERAL-ELECTRIC THFK (900/2000 A) 2DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-03A/MCB 125V DC 1DCB BKR 03A (ISOL DIODE 1ADC) (1DIC)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
2DCA-03B/MCB 125V DC 2DCA BKR 03B (ISOL DIODE 1ADC) (1DIC)	O-1705 Rev 45	GENERAL-ELECTRIC THFK (900/2000 A) 2DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-03B/MCB 125V DC 1DCB BKR 03B (ISOL DIODE 1ADD) (1DID)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
2DCB-03B/MCB 125V DC 2DCB BKR 03B (ISOL DIODE 1ADD) (1DID)	O-1705 Rev 45	GENERAL-ELECTRIC THFK (900/2000 A) 2DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 125/250V DC PWR

SUB SYSTEM: 250V DC MCC AND LGT DL2 PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1DL2-06/MCB 250V DC PPB 1DL2 BKR 6 (LPPB 1L21)	O-705-B Rev 23	GENERAL-ELECTRIC TEF (20A) 1DL2/PBB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F03CL/MCB 125/250V DC 1DP BKR F03CL (250V PPB 1DL2)	O-705-B Rev 23	GENERAL-ELECTRIC THEF (100 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F05AC/MCB 125/250V DC 1DP BKR F05AC (250V MOV MCC 1MVC2)	O-705-B Rev 23	GENERAL-ELECTRIC THEF (50 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F05BT/MCB 125/250V DC 1DP BKR F05BT (250V MOV MCC 1MVC3)	O-705-B Rev 23	GENERAL-ELECTRIC THEF (50 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 125/250V DC PWR

SUB SYSTEM: 250V DC PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DP-F01A/MCB 125/250V DC 1DP BKR F01A (1PA BATT)	O-705-B Rev 23	GENERAL-ELECTRIC THKM8 (2400/6400 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F01B/MCB 125/250V DC 1DP BKR F01B (1PA BATT CHGR)	O-705-B Rev 23	GENERAL-ELECTRIC THJK6 (500 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F01C/MCB 125/250V DC 1DP BKR F01C (1PS STBY CHGR)	O-705-B Rev 23	GENERAL-ELECTRIC THJK6 (500 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XO-F01B/MCB 600V MCC 1XO BKR F01B (BATT CHARGER 1PA)	O-703-F Rev 43	GENERAL-ELECTRIC THED (150 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F02A/MCB 125/250V DC 1DP BKR F02A (1PB BATT)	O-705-B Rev 23	GENERAL-ELECTRIC THKM8 (2400/6400 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F02B/MCB 125/250V DC 1DP BKR F02B (1PB BATT CHGR)	O-705-B Rev 23	GENERAL-ELECTRIC THJK6 (500 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F02C/MCB 125/250V DC 1DP BKR F02C (1PS BATT CHGR)	O-705-B Rev 23	GENERAL-ELECTRIC THJK6 (500 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XP-F01C/MCB 600V MCC 1XP BKR F01C (BATT CHARGER 1PB)	O-703-E Rev 38	GENERAL-ELECTRIC THED (150 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F04A/MCB 125/250V DC 1DP BKR F04A (1DP TO 2DP TIE MCB)	O-705-B Rev 23	GENERAL-ELECTRIC THKM8 (2400/6400 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DP-F04B/MCB 125/250V DC 1DP BKR F04B (1DP TO 2DP TIE MCB)	O-705-B Rev 23	GENERAL-ELECTRIC THKM8 (2400/6400 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 208V PWR (PPB)

SUB SYSTEM: AC PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XGB-F04BB/MCB 600V MCC 1XGB BKR F04BB (PPB 1KC)	O-703 Rev 52	GENERAL-ELECTRIC THEF (50 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XP-R03AT/MCB 208V MCC 1XP BKR R03AT (PPB 1KE)	O-703-E Rev 38	GENERAL-ELECTRIC TEF6 (100 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XR-06BT/MCB 208V MCC 1XR BKR 6BT (208V PPB 1KG)	O-703-F Rev 43	GENERAL-ELECTRIC TEF6 (100 A) 1XR	NV AB 838
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS1-F04C/MCB 600V MCC 1XS1 BKR F04C (208V PPB 1KSG FEEDER)	O-703-G Rev 47	GENERAL-ELECTRIC THED (30 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS1-R04B/MCB 208V MCC 1XS1 BKR R04B (PPB 1SKJ)	O-703-G Rev 47	GENERAL-ELECTRIC THED (70 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS2-R03CT/MCB 208V MCC 1XS2 BKR R03CT (PPB 1SKK)	O-703-G Rev 47	GENERAL-ELECTRIC THED (70 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS3-04BT/MCB 208V MCC 1XS3 BKR 04BT (PPB 1SKL)	O-703-G Rev 47	GENERAL-ELECTRIC THED (70 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 240/120V AC PWR

SUB SYSTEM: 120V AC AUX PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1DCA-03F/MCB 125V DC 1DCA BKR 03F (AUX PWR INV 1KX)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-03F/MCB 125V DC 1DCB BKR 03F (AUX PWR INV 1KX)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-02/MCB 120V PPB 1KRA BKR 02 (1KX STATIC SWITCH & INV BYPASS)	O-705-A Rev 61	ITE EEI (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 240/120V AC PWR

SUB SYSTEM: 120V AC ICS PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1DCA-03E/MCB 125V DC 1DCA BKR 03E (ICS PWR INV 1KI)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-03E/MCB 125V DC 1DCB BKR 03E (ICS PWR INV 1KI)	O-705 Rev 59	GENERAL-ELECTRIC THFK (900/2000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-01/MCB 120V PPB 1KRA BKR 01 (1KI STATIC SWITCH & INV BYPASS)	O-705-A Rev 61	ITE EEI (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KI-01/(ICS)/MCB 120V PPB 1KI BKR 01 (ICS HAND PWR)	O-705-A Rev 61	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KI-05/MCB 120V PPB 1KI BKR 05 (ICS EM PWR)	O-705-A Rev 61	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KI-25/MCB 120V PPB 1KI BKR 25 (ICS AUTO PWR)	O-705-A Rev 61	ITE CE (50 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 240/120V AC PWR

SUB SYSTEM: 120V AC VITAL PWR

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DIA-33/MCB 125V PPB 1DIA BKR 33 (VITAL INV 1DIA)	O-705 Rev 59	ITE FJ2 (125 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-03/MCB 120V PPB 1KRA BKR 03 (1KVIA XFER SWITCH)	O-705-A Rev 61	ITE EE1 (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIB-33/MCB 125V PPB 1DIB BKR 33 (VITAL INV 1DIB)	O-705 Rev 59	ITE FJ2 (125 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-04/MCB 120V PPB 1KRA BKR 04 (1KVIB XFER SWITCH)	O-705-A Rev 61	ITE EE1 (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIC-33/MCB 125V PPB 1DIC BKR 33 (VITAL INV 1DIC)	O-705 Rev 59	ITE FJ2 (125 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-05/MCB 120V PPB 1KRA BKR 05 (1KVIC XFER SWITCH)	O-705-A Rev 61	ITE EE1 (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DID-33/MCB 125V PPB 1DID BKR 33 (VITAL INV 1DID)	O-705 Rev 59	ITE FJ2 (125 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-06/MCB 120V PPB 1KRA BKR 06 (1KVID XFER SWITCH)	O-705-A Rev 61	ITE EE1 (100 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 240/120V AC PWR**

SUB SYSTEM: **240/120V AC COM PWR**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DCA-04B/MCB 125V DC 1DCA BKR 04B (COMP INV 1KU)	O-705 Rev 59	GENERAL-ELECTRIC THJK (900/3000 A) 1DCA	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DCB-04B/MCB 125V DC 1DCB BKR 04B (COMP INV 1KU)	O-705 Rev 59	GENERAL-ELECTRIC THJK (900/3000 A) 1DCB	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KRA-13/MCB 120V PPB 1KRA BKR 13 (1KU STATIC SWITCH & INV BYPASS)	O-705-A Rev 61	ITE QJ2 (150 A) 1KRA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 240/120V AC PWR**

SUB SYSTEM: **240/120V AC REG PWR**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1A/MCB 240/120V 1A REGULATOR OUTPUT BKR <i>NV - Not Vulnerable To Contact Chatter.</i>	O-705-A Rev 61	GENERAL-ELECTRIC TJJ (250 A) 1A/MCB	NV AB 796'+6"
1B/MCB 240/120V 1B REGULATOR OUTPUT BKR <i>NV - Not Vulnerable To Contact Chatter.</i>	O-705-A Rev 61	GENERAL-ELECTRIC TJJ (250 A) 1B/MCB	NV AB 796'+6"
1XO-F01E/MCB 600V MCC 1XO BKR F01E (NORM PWR REG 1A) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-F Rev 43	GENERAL-ELECTRIC THEF (90 A) 1XO	NV AB 796
1XP-F01AB/MCB 600V MCC 1XP BKR F01AB (NORM PWR REG 1B) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-E Rev 38	GENERAL-ELECTRIC THEF (90 A) 1XP	NV AB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160/600V KEOWEE PWR

SUB SYSTEM: 1TC-04

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1TC-04 4KV SWGR 1TC BKR 04 (KEO STBY XFMR CX)	OEE-117-42 Rev 3	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TC-04) KEOWEE STBY XFMR CX OC RLY (X PHASE)	OEE-117-42 Rev 3	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-04) KEOWEE STBY XFMR CX OC RLY (Z PHASE)	OEE-117-42 Rev 3	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-04) KEOWEE STBY XFMR CX GND OC RLY	OEE-117-42 Rev 3	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
86CXX(1TC-04) KEOWEE STAND-BY XFMR CX LOCKOUT AUX RLY	OEE-117-42 Rev 3	STRUTHERS-DUNN 219BBXP 1TC	GERS-RLY-ARS.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **MAIN FEEDER BUS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
B1T-01 4KV SWGR B1T BKR 01 (STUP BKR E11)	OEE-117-02 Rev 14	ITE 5HK-350 (3000 A) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50BE11(B1T-01) U1 STUP BKR E11 INSTANTANEOUS OC RLY	OEE-117-02 Rev 14	GENERAL-ELECTRIC CHC11A21A B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(B1T-01) U1 STUP BKR E11 GROUND OC RLY	OEE-117-02 Rev 14	WESTINGHOUSE CO-6 (1876904) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B1T-01) U1 STUP BKR E11 OC RLY (X PHASE)	OEE-117-02 Rev 14	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Y(B1T-01) U1 STUP BKR E11 OC RLY (Y PHASE)	OEE-117-02 Rev 14	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(B1T-01) U1 STUP BKR E11 OC RLY (Z PHASE)	OEE-117-02 Rev 14	WESTINGHOUSE CO-8 (1875267) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B11(B1T-01) U1 MAIN BUS 1 BKR FAIL TIMER RLY	OEE-117-02-A Rev 11	WESTINGHOUSE TD-5 (293B301A25) 1EPSLP3	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62BE11(B1T-01) U1 STUP BKR E11 FAIL TIMER RLY	OEE-117-02-A Rev 11	WESTINGHOUSE TD-5 (293B301A30) B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXE11(B1T-01) U1 STUP BKR E11 FAIL AUX RLY	OEE-117-02-A Rev 11	WESTINGHOUSE AR (606B029A09) B1T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86B11(B1T-02) U1 MFB 1 LOCKOUT RLY	OEE-117-02-A Rev 11	ELECTRO-SWITCH LOR B1T	GERS-RLY-ALO.2 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
86E11(B1T-01) U1 STUP BKR E11 LOCKOUT RLY	OEE-117-02-A Rev 11	GENERAL-ELECTRIC HEA61C240 B1T	GERS-RLY-ALO.2 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
86XB11(B1T-02) U1 MFB 1 LOCKOUT AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-02-A Rev 11	WESTINGHOUSE MG-6/NO (288B977A19) B1T	GERS-RLY-ARH.5 BH 796
86XXB11(B1T-02) U1 MFB 1 LOCKOUT AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-02-A Rev 11	CUTLER-HAMMER D23MRD70A1 B1T	CA BH 796
87B11(X)(B1T-02) U1 MFB 1 DIFF RLY (X PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-02 Rev 14	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
87B11(Y)(B1T-02) U1 MFB 1 DIFF RLY (Y PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-02 Rev 14	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
87B11(Z)(B1T-02) U1 MFB 1 DIFF RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-02 Rev 14	WESTINGHOUSE CA-16 (671B157A20) B1T	EVAL (OSC-6642) BH 796
94E11(B1T-01) U1 STUP BKR E11 AUX TRIP RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-02-A Rev 11	WESTINGHOUSE AR (606B017A09) B1T	EVAL (OSC-6642) BH 796
94X1(B1T-02) U1 STUP BKR E11 AUX TRIP RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-02-A Rev 11	CUTLER-HAMMER D23MRD30A1 B1T	CA BH 796
94Y1(B1T-02) U1 STUP BKR E11 AUX TRIP RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-02-A Rev 11	CUTLER-HAMMER D23MRD30A1 B1T	GERS-RLY-AI2.4 BH 796
CIR-E11(B1T-01) U1 STUP BKR E11 CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-02-A Rev 11	CUTLER-HAMMER D26MRD30A1 B1T	GERS-RLY-AI2.4 BH 796
1DIA-26/MCB 125V PPB 1DIA BKR 26 (4KV SWGR B1T 1-4 CLOSE/TRIP) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-02-A Rev 11	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
1DIB-31/MCB 125V PPB 1DIB BKR 31 (4KV SWGR B1T 1-4 TRIP) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-02-A Rev 11	ITE EH2 (50 A) 1DIB/PPB	NV AB 809

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **MAIN FEEDER BUS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
52-21/TD1 PCB 21 TRIP TD AUX RLY	OEE-117-02-B Rev 15	WESTINGHOUSE TD-5 (293B301A24) 1KESP	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
ITIRA/21 U1 FAST BUS TRANSFER SEAL-IN RLY	OEE-117-02-B Rev 15	CUTLER-HAMMER D26MRD30A1 1KESP	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
TDR1A(B1T-02) U1 STUP BKR E11 TIME DELAY RLY A	OEE-117-02-B Rev 15	AGASTAT 2412 PB B1T	GERS-RLY-PNT.7 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
TDR1B(B1T-02) U1 STUP BKR E11 TIME DELAY RLY B	OEE-117-02-B Rev 15	AGASTAT 2412 PB B1T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
B2T-13 4KV SWGR B2T BKR 13 (STUP BKR E21)	OEE-117-27 Rev 15	ITE 5HK-350 (3000 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50BE21(B2T-13) U1 STUP BKR E21 INSTANTANEOUS OC RLY	OEE-117-27 Rev 15	GENERAL-ELECTRIC CHC11A21A B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(B2T-13) U1 STUP BKR E21 GROUND OC RLY	OEE-117-27 Rev 15	WESTINGHOUSE CO-6 (1876904) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B2T-13) U1 STUP BKR E21 OC RLY (X PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Y(B2T-13) U1 STUP BKR E21 OC RLY (Y PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(B2T-13) U1 STUP BKR E21 OC RLY (Z PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B21(B2T-13) U1 MAIN BUS 2 BKR FAIL TIMER RLY	OEE-117-27-A Rev 9	WESTINGHOUSE TD-5 (293B301A25) 1EPSLP3	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S4T* Building Floor Elev
62BE21(B2T-13) U1 STUP BKR E21 FAIL TIMER RLY	OEE-117-27-A Rev 9	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXE21(B2T-12) U1 STUP BKR E21 FAIL AUX RLY	OEE-117-27-A Rev 9	WESTINGHOUSE AR (606B029A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86B21(B2T-12) U1 MFB 2 LOCKOUT RLY	OEE-117-27-A Rev 9	GENERAL-ELECTRIC HEA61C239 B2T	GERS-RLY-ALO.2 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
86E21(B2T-13) U1 STUP BKR E21 LOCKOUT RLY	OEE-117-27-A Rev 9	GENERAL-ELECTRIC HEA61C240 B2T	GERS-RLY-ALO.2 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
86TX(B2T-12) CT1 XFMR LOCKOUT AUX RLY	OEE-117-27-A Rev 9	CUTLER-HAMMER D23MRD70A1 B2T	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
86XB21(B2T-12) U1 MFB 2 LOCKOUT AUX RLY	OEE-117-27-A Rev 9	WESTINGHOUSE MG-6/NO (288B977A19) B2T	GERS-RLY-ARH.5 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
86XXB21(B2T-12) U1 MFB 2 LOCKOUT AUX RLY	OEE-117-27-A Rev 9	CUTLER-HAMMER D23MRD70A1 B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
87B21(X)(B2T-12) U1 MFB 2 DIFF RLY (X PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
87B21(Y)(B2T-12) U1 MFB 2 DIFF RLY (Y PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
87B21(Z)(B2T-12) U1 MFB 2 DIFF RLY (Z PHASE)	OEE-117-27 Rev 15	WESTINGHOUSE CA-16 (671B157A20) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
94E21(B2T-13) U1 STUP BKR E21 AUX TRIP RLY	OEE-117-27-A Rev 9	WESTINGHOUSE AR (606B017A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **MAIN FEEDER BUS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
94X1(B2T-12) U1 STUP BKR E21 AUX TRIP RLY	OEE-117-27-A Rev 9	CUTLER-HAMMER D23MRD30A1 B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
94Y1(B2T-12) U1 STUP BKR E21 AUX TRIP RLY	OEE-117-27-A Rev 9	CUTLER-HAMMER D23MRD30A1 B2T	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
CIR-E21(B2T-13) U1 STUP BKR E21 CLOSE RLY	OEE-117-27-A Rev 9	CUTLER-HAMMER D26MRD30A1 B2T	GERS-RLY-AI2.4 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
1DIC-27/MCB 125V PPB 1DIC BKR 27 (4KV SWGR B2T 10-13 CLOSE/TRIP)	OEE-117-27-A Rev 9	ITE EH2 (50 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DID-28/MCB 125V PPB 1DID BKR 28 (4KV SWGR B2T 10-13 TRIP)	OEE-117-27-A Rev 9	ITE EH2 (50 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52-21/TD2 PCB 21 TRIP TD AUX RLY	OEE-117-27-B Rev 13	WESTINGHOUSE TD-5 (293B301A24) 1KESP	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
BITIRA/21 U1 FAST BUS TRANSFER SEAL-IN RLY	OEE-117-27-B Rev 13	CUTLER-HAMMER D26MRD30A1 1KESP	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
TDR1A(B2T-12) U1 STUP BKR E21 TIME DELAY RLY A	OEE-117-27-B Rev 13	AGASTAT 2412 PB B2T	GERS-RLY-PNT.7 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
TDR1B(B2T-12) U1 STUP BKR E21 TIME DELAY RLY B	OEE-117-27-B Rev 13	AGASTAT 2412 PB B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
B1T-03 4KV SWGR B1T BKR 03 (NORM BKR N11)	OEE-117-04 Rev 7	ITE 5HK-350 (3000 A) B1T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
25B11(B1T-02) U1 BUS 1 SYNC RLY	OEE-117-04-A Rev 10	WESTINGHOUSE CVE (293B285A09) B1T	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
25XB11(B1T-02) U1 BUS 1 SYNC AUX RLY	OEE-117-04-A Rev 10	WESTINGHOUSE MG-6/NO (288B977A19) BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
50BN11(B1T-03) U1 NORM BKR N11 INSTANTANEOUS OC RLY	OEE-117-04 Rev 7	GENERAL-ELECTRIC CHC11A21A BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51G(B1T-03) U1 NORM BKR N11 GROUND OC RLY	OEE-117-04 Rev 7	WESTINGHOUSE CO-6 (1876904) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B1T-03) U1 NORM BKR N11 OC RLY (X PHASE)	OEE-117-04 Rev 7	WESTINGHOUSE CO-8 (1875267) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Y(B1T-03) U1 NORM BKR N11 OC RLY (Y PHASE)	OEE-117-04 Rev 7	WESTINGHOUSE CO-8 (1875267) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(B1T-03) U1 NORM BKR N11 OC RLY (Z PHASE)	OEE-117-04 Rev 7	WESTINGHOUSE CO-8 (1875267) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62BN11(B1T-03) U1 NORM BKR N11 FAIL TIMER RLY	OEE-117-04-A Rev 10	WESTINGHOUSE TD-5 (293B301A30) BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXN11(B1T-03) U1 NORM BKR N11 FAIL AUX RLY	OEE-117-04-A Rev 10	WESTINGHOUSE AR (606B029A09) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62BXXN11(B1T-03) U1 NORM BKR N11 FAIL AUX RLY	OEE-117-04-A Rev 10	WESTINGHOUSE TD-5 (293B301A30) BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
86N11(B1T-03) U1 NORM BKR N11 LOCKOUT RLY	OEE-117-04-A Rev 10	GENERAL-ELECTRIC HEA61C240 BIT	GERS-RLY-ALO.2 BH 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94N11(B1T-03) U1 NORM BKR N11 AUX TRIP RLY	OEE-117-04-A Rev 10	WESTINGHOUSE AR (606B017A09) BIT	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
94TD(B1T-03) U1 NORM BKR N11 TIME DELAY TRIP RLY	OEE-117-04-A Rev 10	AGASTAT 2422 PB BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
94X2(B1T-02) U1 STUP BKR E11 AUX TRIP RLY	OEE-117-04-A Rev 10	CUTLER-HAMMER D23MRD30A1 BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
94Y2(B1T-02) U1 NORM BKR N11 AUX TRIP RLY	OEE-117-04-A Rev 10	CUTLER-HAMMER D23MRD30A1 BIT	CA BH 796
<i>Rugged Relay Whose Contact Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
RXE1(B1T-02) U1 STUP BKR E1 BLOCKING RLY	OEE-117-04-A Rev 10	WESTINGHOUSE AR (606B029A13) BIT	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
RXE2(B1T-02) U1 STUP BKR E2 BLOCKING RLY	OEE-117-04-A Rev 10	WESTINGHOUSE AR (606B029A13) BIT	EVAL (GIP-2 SECTION 6.4.2) BH 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
B2T-11 4KV SWGR B2T BKR 11 (NORM BKR N21)	OEE-117-25 Rev 9	ITE 5HK-350 (3000 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
25B21(B2T-12) U1 BUS 2 SYNC RLY	OEE-117-25-A Rev 12	WESTINGHOUSE CVE (293B285A09) B2T	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
25XB21(B2T-12) U1 BUS 2 SYNC AUX RLY	OEE-117-25-A Rev 12	WESTINGHOUSE MG-6/NO (288B977A19) B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
50BN21(B2T-11) U1 NORM BKR N21 INSTANTANEOUS OC RLY	OEE-117-25 Rev 9	GENERAL-ELECTRIC CHC11A21A B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51G(B2T-11) U1 NORM BKR N21 GROUND OC RLY	OEE-117-25 Rev 9	WESTINGHOUSE CO-6 (1876904) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(B2T-11) U1 NORM BKR N21 OC RLY (X PHASE)	OEE-117-25 Rev 9	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
51Y(B2T-11) U1 NORM BKR N21 OC RLY (Y PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-25 Rev 9	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
51Z(B2T-11) U1 NORM BKR N21 OC RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-25 Rev 9	WESTINGHOUSE CO-8 (1875267) B2T	EVAL (OSC-6642) BH 796
62BN21(B2T-11) U1 NORM BKR N21 FAIL TIMER RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-25-A Rev 12	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
62BXN21(B2T-12) U1 NORM BKR N21 FAIL AUX RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-25-A Rev 12	WESTINGHOUSE AR (606B029A09) B2T	EVAL (OSC-6642) BH 796
62BXXN21(B2T-12) U1 NORM BKR N21 FAIL AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-25-A Rev 12	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
86/ITX1(B2T-11) U1 GEN LOCKOUT AUX RLY <i>Rugged Relay Whose Contact Chatter Can Trip And Lockout Normal Feeder Breakers.</i>	OEE-117-25-A Rev 12	CUTLER-HAMMER D23MRD70A1 B2T	CA BH 796
86N21(B2T-11) U1 NORM BKR N21 LOCKOUT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-25-A Rev 12	GENERAL-ELECTRIC HEA61C240 B2T	GERS-RLY-ALO.2 BH 796
94N21(B2T-11) U1 NORM BKR N21 AUX TRIP RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-25-A Rev 12	WESTINGHOUSE AR (606B017A09) B2T	EVAL (OSC-6642) BH 796
94TD(B2T-12) U1 NORM BKR N21 TIME DELAY TRIP RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-25-A Rev 12	AGASTAT 2422 PB B2T	CA BH 796
94X2(B2T-12) U1 NORM BKR N21 AUX TRIP RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-25-A Rev 12	CUTLER-HAMMER D23MRD30A1 B2T	CA BH 796
94Y2(B2T-12) U1 NORM BKR N21 AUX TRIP RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Equipment To Go To Its Desired Position.</i>	OEE-117-25-A Rev 12	CUTLER-HAMMER D23MRD30A1 B2T	CA BH 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**SUB SYSTEM: **MAIN FEEDER BUS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RYE1(B2T-12) U1 STUP BKR E1 BLOCKING RLY <i>EVAL - Seismically Adequate Per Switchgear Function.</i>	OEE-117-25-A Rev 12	WESTINGHOUSE AR (606B029A13) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
RYE2(B2T-12) U1 STUP BKR E2 BLOCKING RLY <i>EVAL - Seismically Adequate Per Switchgear Function.</i>	OEE-117-25-A Rev 12	WESTINGHOUSE AR (606B029A13) B2T	EVAL (GIP-2 SECTION 6.4.2) BH 796
B1T-06 4KV SWGR B1T BKR 06 (STBY BKR S11) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-07 Rev 9	ITE 5HK-350 (3000 A) B1T	NV BH 796
25S11(B1T-06) U1 STBY BUS 1 SYNC RLY <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-07-A Rev 10	WESTINGHOUSE CVE-1 (292B353A17) B1T	CA BH 796
50BS11(B1T-06) U1 STBY BKR S11 INSTANTANEOUS OC RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-07 Rev 9	GENERAL-ELECTRIC CHC11A21A B1T	CA BH 796
62BS11(B1T-06) U1 STBY BKR S11 FAIL TIMER RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-07-A Rev 10	WESTINGHOUSE TD-5 (293B301A30) B1T	CA BH 796
62BXS11(B1T-06) U1 STBY BKR S11 FAIL AUX RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-07-A Rev 10	WESTINGHOUSE AR (606B029A09) B1T	EVAL (OSC-6642) BH 796
94S11(B1T-06) U1 STBY BKR S11 AUX TRIP RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-07-A Rev 10	WESTINGHOUSE AR (606B017A09) B1T	EVAL (OSC-6642) BH 796
CIR-S11(B1T-06) U1 STBY BKR S11CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-07-A Rev 10	CUTLER-HAMMER D26MRD30A1 B1T	GERS-RLY-AI2.4 BH 796
1SBCX-1A U1 STBY BKR S11 AUX CLOSE RLY A <i>Rugged Relay Whose Contact Chatter Does Not Impact Equipment Designed To Function After SSE.</i>	OEE-117-07-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
1SBCX-1B U1 STBY BKR S11 AUX CLOSE RLY B <i>Rugged Relay Whose Contact Chatter Does Not Impact Equipment Designed To Function After SSE.</i>	OEE-117-07-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: MAIN FEEDER BUS

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1SDS-1A U1 STBY BKR S11 LOGIC TRIP AUX RLY	OEE-117-07-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1STD-1A U1 STBY BKR S11 LOGIC TIME DELAY TRIP RLY A	OEE-117-07-B Rev 4	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP2	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1STD-1AX U1 STBY BKR S11 LOGIC TIME DELAY TRIP AUX RLY A	OEE-117-07-B Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1STD-1B U1 STBY BKR S11 LOGIC TIME DELAY TRIP RLY B	OEE-117-07-B Rev 4	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP2	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1STD-1BX U1 STBY BKR S11 LOGIC TIME DELAY TRIP AUX RLY B	OEE-117-07-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
B2T-08 4KV SWGR B2T BKR 08 (STBY BKR S21)	OEE-117-22 Rev 8	ITE 5HK-350 (3000 A) B2T	NV BH 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
25S21(B2T-08) U1 STBY BUS 2 SYNC RLY	OEE-117-22-A Rev 9	WESTINGHOUSE CVE-1 (292B353A17) B2T	CA BH 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
50BS21(B2T-08) U1 STBY BKR S21 INSTANTANEOUS OC RLY	OEE-117-22 Rev 8	GENERAL-ELECTRIC CHC11A21A B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BS21(B2T-08) U1 STBY BKR S21 FAIL TIMER RLY	OEE-117-22 Rev 8	WESTINGHOUSE TD-5 (293B301A30) B2T	CA BH 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BXS21(B2T-08) U1 STBY BKR S21 FAIL AUX RLY	OEE-117-22-A Rev 9	WESTINGHOUSE AR (606B029A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
94S21(B2T-08) U1 STBY BKR S21 AUX TRIP RLY	OEE-117-22-A Rev 9	WESTINGHOUSE AR (606B017A09) B2T	EVAL (OSC-6642) BH 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **MAIN FEEDER BUS**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
CIR-S21(B2T-08) U1 STBY BKR S21 CLOSE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-22-A Rev 9	CUTLER-HAMMER D26MRD30A1 B2T	GERS-RLY-AI2.4 BH 796
1SBCX-2A U1 STBY BKR S21 AUX CLOSE RLY A <i>Rugged Relay Whose Contact Chatter Does Not Impact Equipment Designed To Function After SSE.</i>	OEE-117-22-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
1SBCX-2B U1 STBY BKR S21 AUX CLOSE RLY B <i>Rugged Relay Whose Contact Chatter Does Not Impact Equipment Designed To Function After SSE.</i>	OEE-117-22-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
1SDS-2A U1 STBY BKR S21 LOGIC TRIP AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-22-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
1STD-2A U1 STBY BKR S21 LOGIC TIME DELAY TRIP RLY A <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-22-B Rev 4	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP2	CA AB 809
1STD-2AX U1 STBY BKR S21 LOGIC TIME DELAY TRIP AUX RLY A <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-22-B Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
1STD-2B U1 STBY BKR S21 LOGIC TIME DELAY TRIP RLY B <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-22-B Rev 4	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP2	CA AB 809
1STD-2BX U1 STBY BKR S21 LOGIC TIME DELAY TRIP AUX RLY B <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-22-B Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	GERS-RLY-AI2.4 AB 809

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **Switchgear Supply Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TC-01 4KV SWGR 1TC BKR 01 (UNIT 1, FDR BUS 2)	OEE-117-39 Rev 3	ITE 5HK-350 (2000 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TC-01) FDR BKR 1TC-01 INSTANTANEOUS OC RLY	OEE-117-39 Rev 3	GENERAL-ELECTRIC CHC11A21A 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TC-01) FDR BKR 1TC-01 GROUND OC RLY	OEE-117-39 Rev 3	WESTINGHOUSE CO-6 (1876904) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TC-01) FDR BKR 1TC-01 OC RLY (X PHASE)	OEE-117-39 Rev 3	WESTINGHOUSE CO-8 (1875267) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TC-01) FDR BKR 1TC-01 OC RLY (Z PHASE)	OEE-117-39 Rev 3	WESTINGHOUSE CO-8 (1875267) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TC-01) FDR BKR 1TC-01 BKR FAIL RLY	OEE-117-39 Rev 3	WESTINGHOUSE TD-5 (293B301A24) 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TC-01) FDR BKR 1TC-01 BKR FAIL AUX RLY	OEE-117-39 Rev 3	WESTINGHOUSE AR (606B029A09) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TC-01) FDR BKR 1TC-01 LOCKOUT RLY	OEE-117-39 Rev 3	GENERAL-ELECTRIC HEA61C240 1TC	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TC-01) FDR BKR 1TC-01 AUX TRIP RLY	OEE-117-39 Rev 3	WESTINGHOUSE AR (606B029A09) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIA-25/(1TC-01)/MCB 125V PPB 1DIA BKR 25 (4KV SWGR 1TC CLOSE/TRIP)	OEE-117-39 Rev 3	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIB-15/(1TC-01)/MCB 125V PPB 1DIB BKR 15 (4KV SWGR 1TC TRIP)	OEE-117-39 Rev 3	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**SUB SYSTEM: **Switchgear Supply Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TC-14 4KV SWGR 1TC BKR 14 (UNIT 1, FDR BUS 1)	OEE-117-52 Rev 4	ITE 5HK-350 (2000 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TC-14) FDR BKR 1TC-14 INSTANTANEOUS OC RLY	OEE-117-52 Rev 4	GENERAL-ELECTRIC CHC11A21A 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TC-14) FDR BKR 1TC-14 GROUND OC RLY	OEE-117-52 Rev 4	WESTINGHOUSE CO-6 (1876904) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TC-14) FDR BKR 1TC-14 OC RLY (X PHASE)	OEE-117-52 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TC-14) FDR BKR 1TC-14 OC RLY (Z PHASE)	OEE-117-52 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TC-14) FDR BKR 1TC-14 BKR FAIL RLY	OEE-117-52 Rev 4	WESTINGHOUSE TD-5 (293B301A24) 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TC-14) FDR BKR 1TC-14 BKR FAIL AUX RLY	OEE-117-52 Rev 4	WESTINGHOUSE AR (606B029A09) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TC-14) FDR BKR 1TC-14 LOCKOUT RLY	OEE-117-52 Rev 4	GENERAL-ELECTRIC HEA61C240 1TC	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TC-14) FDR BKR 1TC-14 AUX TRIP RLY	OEE-117-52 Rev 4	WESTINGHOUSE AR (606B029A09) 1TC	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIA-25/(1TC-14)/MCB 125V PPB 1DIA BKR 25 (4KV SWGR 1TC CLOSE/TRIP)	OEE-117-52 Rev 4	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIB-15/(1TC-14)/MCB 125V PPB 1DIB BKR 15 (4KV SWGR 1TC TRIP)	OEE-117-52 Rev 4	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: Switchgear Supply Breakers

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TD-01 4KV SWGR 1TD BKR 01 (UNIT 1, FDR BUS 2)	OEE-117-54 Rev 4	ITE 5HK-350 (2000 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TD-01) FDR BKR 1TD-01 INSTANTANEOUS OC RLY	OEE-117-54 Rev 4	GENERAL-ELECTRIC CHC11A21A 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TD-01) FDR BKR 1TD-01 GROUND OC RLY	OEE-117-54 Rev 4	WESTINGHOUSE CO-6 (1876904) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TD-01) FDR BKR 1TD-01 OC RLY (X PHASE)	OEE-117-54 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TD-01) FDR BKR 1TD-01 OC RLY (Z PHASE)	OEE-117-54 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TD-01) FDR BKR 1TD-01 BKR FAIL RLY	OEE-117-54 Rev 4	WESTINGHOUSE TD-5 (293B301A24) 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TD-01) FDR BKR 1TD-01 BKR FAIL AUX RLY	OEE-117-54 Rev 4	WESTINGHOUSE AR (606B029A09) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TD-01) FDR BKR 1TD-01 LOCKOUT RLY	OEE-117-54 Rev 4	GENERAL-ELECTRIC HEA61C240 1TD	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TD-01) FDR BKR 1TD-01 AUX TRIP RLY	OEE-117-54 Rev 4	WESTINGHOUSE AR (606B029A09) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIA-32/(1TD-01)/MCB 125V PPB 1DIA BKR 32 (4KV SWGR 1TD TRIP)	OEE-117-54 Rev 4	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIB-32/(1TD-01)/MCB 125V PPB 1DIB BKR 32 (4KV SWGR 1TD CLOSE/TRIP)	OEE-117-54 Rev 4	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**SUB SYSTEM: **Switchgear Supply Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TD-14 4KV SWGR 1TD BKR 14 (UNIT 1, FDR BUS 1)	OEE-117-67 Rev 7	ITE 5HK-350 (2000 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TD-14) FDR BKR 1TD-14 INSTANTANEOUS OC RLY	OEE-117-67 Rev 7	GENERAL-ELECTRIC CHC11A21A 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TD-14) FDR BKR 1TD-14 GROUND OC RLY	OEE-117-67 Rev 7	WESTINGHOUSE CO-6 (1876904) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TD-14) FDR BKR 1TD-14 OC RLY (X PHASE)	OEE-117-67 Rev 7	WESTINGHOUSE CO-8 (1875267) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TD-14) FDR BKR 1TD-14 OC RLY (Z PHASE)	OEE-117-67 Rev 7	WESTINGHOUSE CO-8 (1875267) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TD-14) FDR BKR 1TD-14 BKR FAIL RLY	OEE-117-67 Rev 7	WESTINGHOUSE TD-5 (293B301A24) 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TD-14) FDR BKR 1TD-14 BKR FAIL AUX RLY	OEE-117-67 Rev 7	WESTINGHOUSE AR (606B029A09) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TD-14) FDR BKR 1TD-14 LOCKOUT RLY	OEE-117-67 Rev 7	GENERAL-ELECTRIC HEA61C240 1TD	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TD-14) FDR BKR 1TD-14 AUX TRIP RLY	OEE-117-67 Rev 7	WESTINGHOUSE AR (606B029A09) 1TD	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIA-32/(1TD-14)/MCB 125V PPB 1DIA BKR 32 (4KV SWGR 1TD TRIP)	OEE-117-67 Rev 7	ITE EH2 (50 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIB-32/(1TD-14)/MCB 125V PPB 1DIB BKR 32 (4KV SWGR 1TD CLOSE/TRIP)	OEE-117-67 Rev 7	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 4160V PWR**

SUB SYSTEM: **Switchgear Supply Breakers**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1TE-01 4KV SWGR 1TE BKR 01 (UNIT 1, FDR BUS 2)	OEE-117-68 Rev 4	ITE 5HK-350 (2000 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TE-01) FDR BKR 1TE-01 INSTANTANEOUS OC RLY	OEE-117-68 Rev 4	GENERAL-ELECTRIC CHC11A21A 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TE-01) FDR BKR 1TE-01 GROUND OC RLY	OEE-117-68 Rev 4	WESTINGHOUSE CO-6 (1876904) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TE-01) FDR BKR 1TE-01 OC RLY (X PHASE)	OEE-117-68 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TE-01) FDR BKR 1TE-01 OC RLY (Z PHASE)	OEE-117-68 Rev 4	WESTINGHOUSE CO-8 (1875267) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TE-01) FDR BKR 1TE-01 BKR FAIL RLY	OEE-117-68 Rev 4	WESTINGHOUSE TD-5 (293B301A24) 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TE-01) FDR BKR 1TE-01 BKR FAIL AUX RLY	OEE-117-68 Rev 4	WESTINGHOUSE AR (606B029A09) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TE-01) FDR BKR 1TE-01 LOCKOUT RLY	OEE-117-68 Rev 4	GENERAL-ELECTRIC HEA61C240 1TE	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TE-01) FDR BKR 1TE-01 AUX TRIP RLY	OEE-117-68 Rev 4	WESTINGHOUSE AR (606B029A09) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIB-16/(1TE-01)/MCB 125V PPB 1DIB BKR 16 (4KV SWGR 1TE TRIP)	OEE-117-68 Rev 4	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIC-28/(1TE-01)/MCB 125V PPB 1DIC BKR 28 (4KV SWGR 1TE CLOSE/TRIP)	OEE-117-68 Rev 4	ITE EH2 (50 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 4160V PWR

SUB SYSTEM: Switchgear Supply Breakers

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TE-14 4KV SWGR 1TE BKR 14 (UNIT 1, FDR BUS 1)	OEE-117-81 Rev 5	ITE 5HK-350 (2000 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50B(1TE-14) FDR BKR 1TE-14 INSTANTANEOUS OC RLY	OEE-117-81 Rev 5	GENERAL-ELECTRIC CHC11A21A 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
51G(1TE-14) FDR BKR 1TE-14 GROUND OC RLY	OEE-117-81 Rev 5	WESTINGHOUSE CO-6 (1876904) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51X(1TE-14) FDR BKR 1TE-14 OC RLY (X PHASE)	OEE-117-81 Rev 5	WESTINGHOUSE CO-8 (1875267) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
51Z(1TE-14) FDR BKR 1TE-14 OC RLY (Z PHASE)	OEE-117-81 Rev 5	WESTINGHOUSE CO-8 (1875267) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
62B(1TE-14) FDR BKR 1TE-14 BKR FAIL RLY	OEE-117-81 Rev 5	WESTINGHOUSE TD-5 (293B301A24) 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
62BX(1TE-14) FDR BKR 1TE-14 BKR FAIL AUX RLY	OEE-117-81 Rev 5	WESTINGHOUSE AR (606B029A09) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
86(1TE-14) FDR BKR 1TE-14 LOCKOUT RLY	OEE-117-81 Rev 5	GENERAL-ELECTRIC HEA61C240 1TE	GERS-RLY-ALO.2 L1 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
94(1TE-14) FDR BKR 1TE-14 AUX TRIP RLY	OEE-117-81 Rev 5	WESTINGHOUSE AR (606B029A09) 1TE	EVAL (OSC-6642) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DIB-16/(1TE-14)/MCB 125V PPB 1DIB BKR 16 (4KV SWGR 1TE TRIP)	OEE-117-81 Rev 5	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1DIC-28/(1TE-14)/MCB 125V PPB 1DIC BKR 28 (4KV SWGR 1TE CLOSE/TRIP)	OEE-117-81 Rev 5	ITE EH2 (50 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600/208V MOTOR CONTROL**

SUB SYSTEM: **208 V**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XA-F07AT/MCB 600V MCC 1XA BKR F07AT (208V MCC 1XA)	O-703 Rev 52	GENERAL-ELECTRIC THEF (30 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XA-R05BB/MCB 208V MCC 1XA BKR R05BB (208V MCC 1XA-A)	O-703 Rev 52	GENERAL-ELECTRIC TEF (70 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XC-F01AT/MCB 600V MCC 1XC BKR F01AT (208V MCC 1XC)	O-703-C Rev 45	GENERAL-ELECTRIC THEF (30 A) 1XC	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XGB-F04AT/MCB 600V MCC 1XGB BKR F04AT (208V MCC 1XGB)	O-703 Rev 52	GENERAL-ELECTRIC THEF (100 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XL-04AT/MCB 600V MCC 1XL BKR 04AT (208V MCC 1XL)	O-703-D Rev 34	GENERAL-ELECTRIC THEF (100 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XN-02AT/MCB 600V MCC 1XN BKR 02AT (208V MCC 1XN)	O-703-E Rev 38	GENERAL-ELECTRIC THEF (100 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XO-F05B/MCB 600V MCC 1XO BKR F05B (208V MCC 1XO)	O-703-F Rev 43	GENERAL-ELECTRIC TFJ (150 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XP-F05B/MCB 600V MCC 1XP BKR F05B (208V MCC 1XP)	O-703-E Rev 38	GENERAL-ELECTRIC TFJ (150 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XR-05B 600V MCC 1XR BKR 5B (208V MCC 1XR)	O-703-F Rev 43	GENERAL-ELECTRIC TFJ (150 A) 1XR	NV AB 838
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS1-F05AT/MCB 600V MCC 1XS1 BKR F05AT (208V MCC 1XS1)	O-703-G Rev 47	GENERAL-ELECTRIC THEF (50A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XS2-F04AT/MCB 600V MCC 1XS2 BKR F04AT (208V MCC 1XS2)	O-703-G Rev 47	GENERAL-ELECTRIC THED (50 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600/208V MOTOR CONTROL

SUB SYSTEM: 208 V

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1XS3-03BT/MCB 600V MCC 1XS3 BKR 03BT (208V MCC 1XS3)	O-703-G Rev 47	GENERAL-ELECTRIC THED (30 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XSF-F01A(208V)/MCB 208V MCC 1XSF BKR F01A (208V MCC 1XSF FEED)	O-703-K Rev 24	GENERAL-ELECTRIC THED (100 A) 1XSF(208V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XSF-F04A(600V)/MCB 600V MCC 1XSF BKR F04A (208V MCC 1XSF)	O-703-K Rev 24	GENERAL-ELECTRIC THED (40 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XSF-F02BL/(208V)/MCB 208V MCC 1XSF BKR F02BL (208V MCC 1XSF-1)	O-703-K Rev 24	GENERAL-ELECTRIC THED (70 A) 1XSF(208V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600/208V MOTOR CONTROL**SUB SYSTEM: **600 V**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1X01-04C 600V LC 1X01 BKR 04C (600V MCC 1XA) (NORM FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X01	NV TB 796
1XA-F03A/MCB 600V MCC 1XA BKR F03A (1XA NORM FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703 Rev 52	GENERAL-ELECTRIC TB6 (600 A) 1XA	NV TB 796
1X02-06A 600V LC 1X02 BKR 06A (600V MCC 1XA) (EMER FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X02	NV TB 796
1XA-F04A/MCB 600V MCC 1XA BKR F04A (1XA EMER FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703 Rev 52	GENERAL-ELECTRIC TB6 (600 A) 1XA	NV TB 796
1X02-04C 600V LC 1X02 BKR 04C (600V MCC 1XB) (NORM FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X02	NV TB 796
1XB-03A/MCB 600V MCC 1XB BKR 03A (1XB NORM FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-A Rev 34	GENERAL-ELECTRIC TB6 (600 A) 1XB	NV TB 775
1X04-06A 600V LC 1X04 BKR 06A (600V MCC 1XB) (EMER FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X04	NV TB 796
1XB-04A/MCB 600V MCC 1XB BKR 04A (1XB EMER FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-A Rev 34	GENERAL-ELECTRIC TB6 (600 A) 1XB	NV TB 775
1X04-04C 600V LC 1X04 BKR 04C (600V MCC 1XC) (NORM FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-03 Rev 6	ITE K1600 (500 A) 1X04	NV TB 796
1XC-F03A/MCB 600V MCC 1XC BKR F03A (1XC NORM FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-C Rev 45	GENERAL-ELECTRIC TB6 (600 A) 1XC	NV TB 775
1X02-06B 600V LC 1X02 BKR 06B (600V MCC 1XC) (EMER FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-04 Rev 0	ITE K1600 (500 A) 1X02	NV TB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600/208V MOTOR CONTROL

SUB SYSTEM: 600 V

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XC-F04A/MCB 600V MCC 1XC BKR F04A (1XC EMER FDR BKR)	O-703-C Rev 45	GENERAL-ELECTRIC TB6 (600 A) 1XC	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X01-05D 600V LC 1X01 BKR 05D (600V MCC 1XGB) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (400 A) 1X01	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XGB-F02A/MCB 600V MCC 1XGB BKR F02A (1XGB NORM FDR BKR)	O-703 Rev 52	GENERAL-ELECTRIC TB4 (400 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X04-06D 600V LC 1X04 BKR 06D (600V MCC 1XGB) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (400 A) 1X04	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XGB-F03A/MCB 600V MCC 1XGB BKR F03A (1XGB EMER FDR BKR)	O-703 Rev 52	GENERAL-ELECTRIC TB4 (400 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X06-04C 600V LC 1X06 BKR 04C (600V MCC 1XI) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XI-01A/MCB 600V MCC 1XI BKR 01A (1XI NORM FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB6 (600 A) 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X05-06B 600V LC 1X05 BKR 06B (600V MCC 1XI) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X05	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XI-05A/MCB 600V MCC 1XI BKR 05A (1XI EMER FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB6 (600 A) 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X07-04C 600V LC 1X07 BKR 04C (600V MCC 1XJ) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X07	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XJ-01A/MCB 600V MCC 1XJ BKR 01A (1XJ NORM FDR BKR)	O-703-F Rev 43	GENERAL-ELECTRIC TB6 (600 A) 1XJ	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600/208V MOTOR CONTROL

SUB SYSTEM: 600 V

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1X06-06A 600V LC 1X06 BKR 06A (600V MCC 1XJ) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XJ-05A/MCB 600V MCC 1XJ BKR 05A (1XJ EMER FDR BKR)	O-703-F Rev 43	GENERAL-ELECTRIC TB6 (600 A) 1XJ	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X05-04D 600V LC 1X05 BKR 04D (600V MCC 1XK) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (200 A) 1X05	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XK-02A/MCB 600V MCC 1XK BKR 02A (1XK NORM FDR BKR)	O-703-D Rev 34	GENERAL-ELECTRIC TB4 (200 A) 1XK	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X06-06B 600V LC 1X06 BKR 06B (600V MCC 1XK) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (200 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XK-02B/MCB 600V MCC 1XK BKR 02B (1XK EMER FDR BKR)	O-703-D Rev 34	GENERAL-ELECTRIC TB4 (200 A) 1XK	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X05-05C 600V LC 1X05 BKR 05C (600V MCC 1XL) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (400 A) 1X05	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XL-02A/MCB 600V MCC 1XL BKR 02A (1XL NORM FDR BKR)	O-703-D Rev 34	GENERAL-ELECTRIC TB4 (400 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X06-06D 600V LC 1X06 BKR 06D (600V MCC 1XL) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (400 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XL-03A/MCB 600V MCC 1XL BKR 03A (1XL EMER FDR BKR)	O-703-D Rev 34	GENERAL-ELECTRIC TB4 (400 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X06-05B 600V LC 1X06 BKR 05B (600V MCC 1XN) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (400 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600/208V MOTOR CONTROL**SUB SYSTEM: **600 V**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XN-01A/MCB 600V MCC 1XN BKR 01A (1XN NORM FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB4 (400 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X07-06C 600V LC 1X07 BKR 06C (600V MCC 1XN) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (400 A) 1X07	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XN-03A/MCB 600V MCC 1XN BKR 03A (1XN EMER FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB4 (400 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X07-05B 600V LC 1X07 BKR 05B (600V MCC 1XO) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X07	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XO-F02A/MCB 600V MCC 1XO BKR F02A (1XO NORM FDR BKR)	O-703-F Rev 43	GENERAL-ELECTRIC TB6 (600 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X05-06A 600V LC 1X05 BKR 06A (600V MCC 1XO) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X05	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XO-F03A/MCB 600V MCC 1XO BKR F03A (1XO EMER FDR BKR)	O-703-F Rev 43	GENERAL-ELECTRIC TB6 (600 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X06-04D 600V LC 1X06 BKR 04D (600V MCC 1XP) (NORM FEED)	OEE-116-03 Rev 6	ITE K1600 (600 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XP-F02A/MCB 600V MCC 1XP BKR F02A (1XP NORM FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB6 (600 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X07-06D 600V LC 1X07 BKR 06D (600V MCC 1XP) (EMER FEED)	OEE-116-04 Rev 0	ITE K1600 (600 A) 1X07	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1XP-F03A/MCB 600V MCC 1XP BKR F03A (1XP EMER FDR BKR)	O-703-E Rev 38	GENERAL-ELECTRIC TB6 (600 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600/208V MOTOR CONTROL**SUB SYSTEM: **600 V**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1X07-04D 600V LC 1X07 BKR 04D (600V MCC 1XR) (NORM FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-03 Rev 6	ITE K1600 (400 A) 1X07	NV TB 796
1XR-01A 600V MCC 1XR BKR 1A (1XR NORM FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-F Rev 43	GENERAL-ELECTRIC TB4 (400 A) 1XR	NV AB 838
1X06-06C 600V LC 1X06 BKR 06C (600V MCC 1XR) (EMER FEED) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-04 Rev 0	ITE K1600 (400 A) 1X06	NV TB 796
1XR-05A 600V MCC 1XR BKR 5A (1XR EMER FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-F Rev 43	GENERAL-ELECTRIC TB4 (400 A) 1XR	NV AB 838
1X08-05A 600V LC 1X08 BKR 05A (600V MCC 1XS1) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-05 Rev 3	ITE K600 (350A) 1X08	NV AB 796
1X09-05A 600V LC 1X09 BKR 05A (600V MCC 1XS2) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-05 Rev 3	ITE K600 (350A) 1X09	NV AB 796
1X08-05B 600V LC 1X08 BKR 05B (600V MCC 1XSF) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-116-05 Rev 3	ITE K600 (275A) 1X08	NV AB 796
1XSF-F05A(600V)/MCB 600V MCC 1XSF BKR F05A (1XSF NORM FDR BKR) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-703-K Rev 24	GENERAL-ELECTRIC TJC (400 A) 1XSF(600V)	NV SSF 817

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X01

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1TC-13 4KV SWGR 1TC BKR 13 (600V XFMR 1X01)	OEE-117-51 Rev 4	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TC-13) XFMR 1X01 UV RLY	OEE-117-51 Rev 4	WESTINGHOUSE CV-2 (1875508) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TC-13) XFMR 1X01 OC RLY (X PHASE)	OEE-117-51 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-13) XFMR 1X01 OC RLY (Z PHASE)	OEE-117-51 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-13) XFMR 1X01 GROUND OC RLY	OEE-117-51 Rev 4	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X01-04A 600V LC 1X01 BKR 04A (1X01 NORM FDR BKR)	O-703 Rev 52	ITE K2000 (1600 A) 1X01	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X01) 600V LC 1X01 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X01	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X01) 600V LC 1X01 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X01	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X1(1X01) 600V LC 1X01 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X01	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X3(1X01) 600V LC 1X01 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X01	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1DID-13/MCB 125V PPB 1DID BKR 13 (600V LC 1X1)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**SUB SYSTEM: **1X02**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TD-13 4KV SWGR 1TD BKR 13 (600V XFMR 1X02)	OEE-117-66 Rev 5	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TD-13) XFMR 1X02 UV RLY	OEE-117-66 Rev 5	WESTINGHOUSE CV-2 (1875508) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TD-13) XFMR 1X02 OC RLY (X PHASE)	OEE-117-66 Rev 5	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TD-13) XFMR 1X02 OC RLY (Z PHASE)	OEE-117-66 Rev 5	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TD-13) XFMR 1X02 FDR GROUND OC RLY	OEE-117-66 Rev 5	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X02-04A 600V LC 1X02 BKR 04A (1X02 NORM FDR BKR)	O-703-A Rev 34	ITE K2000 (1600 A) 1X02	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X02) 600V LC 1X02 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X02	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X02) 600V LC 1X02 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X02	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X1(1X02) 600V LC 1X02 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X02	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X4(1X02) 600V LC 1X02 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X02	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1DIC-16/MCB 125V PPB 1DIC BKR 16 (600V LC 1X2)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**

SUB SYSTEM: **1X04**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TE-03 4KV SWGR 1TE BKR 03 (600V XFMR 1X04)	OEE-117-70 Rev 4	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TE-03) XFMR 1X04 UV RLY	OEE-117-70 Rev 4	WESTINGHOUSE CV-2 (1875508) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TE-03) XFMR 1X04 OC RLY (X PHASE)	OEE-117-70 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TE-03) XFMR 1X04 OC RLY (Z PHASE)	OEE-117-70 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TE-03) XFMR 1X04 GROUND OC RLY	OEE-117-70 Rev 4	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X04-04A 600V LC 1X04 BKR 04A (1X04 NORM FDR BKR)	O-703-C Rev 45	ITE K2000 (1600 A) 1X04	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X04) 600V LC 1X04 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X04	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X04) 600V LC 1X04 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X04	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X1(1X04) 600V LC 1X04 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X04	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X4(1X04) 600V LC 1X04 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X04	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X5(1X04) 600V LC 1X04 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X04	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**SUB SYSTEM: **1X04**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DIC-17/MCB 125V PPB 1DIC BKR 17 (600V LC 1X4)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCOONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X05

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TD-02 4KV SWGR 1TD BKR 02 (600V XFMR 1X05)	OEE-117-55 Rev 9	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TD-02) XFMR 1X05 OC RLY (X PHASE)	OEE-117-55 Rev 9	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TD-02) XFMR 1X05 OC RLY (Z PHASE)	OEE-117-55 Rev 9	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TD-02) XFMR 1X05 GROUND OC RLY	OEE-117-55 Rev 9	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1TX5A(1TD-02) LOADSHED CONTROL TIMING RLY (XFMR 1X5)	OEE-117-55-A Rev 0	CUTLER-HAMMER D26MRD70A1/D87XEL30 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TX5B(1TD-02) LOADSHED CONTROL TIMING RLY (XFMR 1X5)	OEE-117-55-A Rev 0	CUTLER-HAMMER D26MRD70A1/D87XEL30 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1X5A(1TD-02) LOADSHED CONTROL RLY (XFMR 1X05)	OEE-117-55-A Rev 0	CUTLER-HAMMER D26MRD70A1 1TD	GERS-RLY-AI2.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
1X5B(1TD-02) LOADSHED CONTROL RLY (XFMR 1X05)	OEE-117-55-A Rev 0	CUTLER-HAMMER D26MRD70A1 1TD	GERS-RLY-AI2.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
1X05-04A 600V LC 1X05 BKR 04A (1X05 NORM FDR BKR)	O-703-D Rev 34	ITE K2000 (1600 A) 1X05	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X05) 600V LC 1X05 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X05	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X05) 600V LC 1X05 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X05	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X05

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
27X1(1X05) 600V LC 1X05 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X05	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X3(1X05) 600V LC 1X05 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X05	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X4(1X05) 600V LC 1X05 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X05	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1DID-15/MCB 125V PPB 1DID BKR 15 (600V LC 1X5)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X06

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TE-02 4KV SWGR 1TE BKR 02 (600V XFMR 1X06)	OEE-117-69 Rev 7	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TE-02) XFMR 1X06 OC RLY (X PHASE)	OEE-117-69 Rev 7	WESTINGHOUSE CO-8 (1875277) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TE-02) XFMR 1X06 OC RLY (Z PHASE)	OEE-117-69 Rev 7	WESTINGHOUSE CO-8 (1875277) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TE-02) XFMR 1X06 GROUND OC RLY	OEE-117-69 Rev 7	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1TX6A(1TE-02) LOADSHED CONTROL TIMING RLY (XFMR 1X6)	OEE-117-69-A Rev 0	CUTLER-HAMMER D26MRD70A1/87XEL30 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TX6B(1TE-02) LOADSHED CONTROL TIMING RLY (XFMR 1X6)	OEE-117-69-A Rev 0	CUTLER-HAMMER D26MRD70A1/87XEL30 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1X6A(1TE-02) LOADSHED CONTROL RLY (XFMR 1X06)	OEE-117-69-A Rev 0	CUTLER-HAMMER D26MRD70A1 1TE	GERS-RLY-AI2.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
1X6B(1TE-02) LOADSHED CONTROL RLY (XFMR 1X06)	OEE-117-69-A Rev 0	CUTLER-HAMMER D26MRD70A1 1TE	GERS-RLY-AI2.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
1X06-04A 600V LC 1X06 BKR 04A (1X06 NORM FDR BKR)	O-703-E Rev 38	ITE K2000 (1600 A) 1X06	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X06) 600V LC 1X06 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X06) 600V LC 1X06 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X06

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27X1(1X06) 600V LC 1X06 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X2(1X06) 600V LC 1X06 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X4(1X06) 600V LC 1X06 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X5(1X06) 600V LC 1X06 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X06	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1DIC-18/MCB 125V PPB 1DIC BKR 18 (600V LC 1X6)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**SUB SYSTEM: **1X07**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TC-02 4KV SWGR 1TC BKR 02 (600V XFMR 1X07)	OEE-117-40 Rev 6	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TC-02) XFMR 1X07 OC RLY (X PHASE)	OEE-117-40 Rev 6	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-02) XFMR 1X07 OC RLY (Z PHASE)	OEE-117-40 Rev 6	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-02) XFMR 1X07 GROUND OC RLY	OEE-117-40 Rev 6	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1TX7-1 LOADSHED CONTROL TIMING RLY (XFMR 1X7)	OEE-117-40-A Rev 1	AGASTAT E7012PE004 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TX7-1X LOADSHED CONTROL TIMING AUX RLY (XFMR 1X7)	OEE-117-40-A Rev 1	CUTLER-HAMMER D26MRD70A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TX7-2 LOADSHED CONTROL TIMING RLY (XFMR 1X7)	OEE-117-53-A Rev 0	AGASTAT E7012PE004 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1X07-04A 600V LC 1X07 BKR 04A (1X07 NORM FDR BKR)	O-703-F Rev 43	ITE K2000 (1600 A) 1X07	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X07) 600V LC 1X07 UV RLY	OEE-116-02 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X07	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X(1X07) 600V LC 1X07 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X07	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27X1(1X07) 600V LC 1X07 AUX UV RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X07	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**

SUB SYSTEM: **1X07**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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27X2(1X07) 600V LC 1X07 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X07	CA TB 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

27X5(1X07) 600V LC 1X07 UV AUX RLY	OEE-116-02 Rev 3	GENERAL-ELECTRIC HFA51A42F 1X07	CA TB 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1DID-17/MCB 125V PPB 1DID BKR 17 (600V LC 1X7)	OEE-116-02 Rev 3	ITE EH2 (20 A) 1DID/PPB	NV AB 809
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 600V PWR (LOAD CENTERS)**SUB SYSTEM: **1X08**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TC-03 4KV SWGR 1TC BKR 03 (600V XFMR 1X08)	OEE-117-41 Rev 4	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TC-03) XFMR 1X08 OC RLY (X PHASE)	OEE-117-41 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-03) XFMR 1X08 OC RLY (Z PHASE)	OEE-117-41 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-03) XFMR 1X08 GROUND OC RLY	OEE-117-41 Rev 4	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X08-04A 600V LC 1X08 BKR 04A (1X08 NORM FDR BKR)	O-703-G Rev 47	ITE K1600 (1600 A) 1X08	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X08) 600V LC 1X08 UV RLY	OEE-116-01 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X08	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
27X(1X08) 600V LC 1X08 AUX UV RLY	OEE-116-01 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X08	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
27X1(1X08) 600V LC 1X08 AUX UV RLY	OEE-116-01 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X08	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
1DIA-03/MCB 125V PPB 1DIA BKR 03 (600V LC 1X8)	OEE-116-01 Rev 3	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X09

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1TD-03 4KV SWGR 1TD BKR 03 (600V XFMR 1X09)	OEE-117-56 Rev 4	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TD-03) XFMR 1X09 OC RLY (X PHASE)	OEE-117-56 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TD-03) XFMR 1X09 OC RLY (Z PHASE)	OEE-117-56 Rev 4	WESTINGHOUSE CO-8 (1875277) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TD-03) XFMR 1X09 GROUND OC RLY	OEE-117-56 Rev 4	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1X09-04A 600V LC 1X09 BKR 04A (1X09 NORM FDR BKR)	O-703-G Rev 47	ITE K1600 (1600 A) 1X09	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1X09) 600V LC 1X09 UV RLY	OEE-116-01 Rev 3	WESTINGHOUSE CV-7 (1875524) 1X09	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
27X(1X09) 600V LC 1X09 AUX UV RLY	OEE-116-01 Rev 3	GENERAL-ELECTRIC HFA51A46F 1X09	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
27X1(1X09) 600V LC 1X09 AUX UV RLY	OEE-116-01 Rev 3	GENERAL-ELECTRIC HFA65D62F (Low Ruggedness) 1X09	CA AB 796
<i>CA - Relay/Contact Has Been Disabled From Control Circuit.</i>			
1DIB-20/MCB 125V PPB 1DIB BKR 20 (600V LC 1X9)	OEE-116-01 Rev 3	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 600V PWR (LOAD CENTERS)

SUB SYSTEM: 1X10

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1TE-12 4KV SWGR 1TE BKR 12 (600V XFMR 1X10)	OEE-117-79 Rev 7	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50-51X(1TE-12) XFMR 1X10 OC RLY (X PHASE)	OEE-117-79 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TE-12) XFMR 1X10 OC RLY (Z PHASE)	OEE-117-79 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TE-12) XFMR 1X10 GROUND OC RLY	OEE-117-79 Rev 7	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**

SUB SYSTEM: **FWPT A Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
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1MSVA0040

FWPT STOP VALVE

1FDWPS0246 FWP 1A SUCTION PRESS SWITCH (1MS-40)	OEE-146 Rev 15	UNITED ELECTRIC J6-9575 (CAT # 670) 1SGFP	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1FDWPS0255 FWPT 1A DISCHARGE PRESSURE (HIGH) SWITCH	OEE-146-17 Rev 5	MELETRON CO. ME-312-6SS49A 1MC-D24	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS170-A(PS1A) FWPT 1A STOP VALVE RESET (1MS-40)	OEE-146 Rev 15	SQUARE-D AGS11-9013 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

1TOPS171-A(PS2A) FWPT 1A THRUST BEARING WEAR ALARM	OEE-146 Rev 15	SQUARE-D ALG5-9013 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS179-A(PS11A) FWPT 1A TRIP SOLENOID BLOCKED (1MS-40)	OEE-146 Rev 15	SQUARE-D AGS11-9013 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS180-A(PS12A) FWPT 1A THRUST BEARING WEAR	OEE-146 Rev 15	SQUARE-D ALG5-9013 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS302-A(PS19A) FWPT 1A BEARING OIL PRESS LOW (1MS-40)	OEE-146 Rev 15	SQUARE-D 9012-GAW-22 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

OLT/LOWLEVELA/U1 OIL LEVEL TRIP SWITCH (1MS-40)	OEE-146 Rev 15	MAGNETROL TF21-F-M4 1FDWTR0001	CA TB 775
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1PS255X FWPT CONTROL RLY (FWPT 1A CONTROLS) (1MS-40)	OEE-146-17 Rev 5	STRUTHERS-DUNN 219ABAP 1TTC6	CA TB 796
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

FPTX/U1 FWPT TRIP AUX RLY	OEE-121-44 Rev 6	CUTLER-HAMMER D23MRD21A1 1EHTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: FWPT A Controls

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

SPTDA/U1	OEE-146 Rev 15	AGASTAT	CA
SUCTION PRESS TRIP DELAY TIMER (1MS-40)		7012 PC	TB
		1SGFP	775

Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1DIA-06/MCB	OEE-121-44 Rev 6	ITE	NV
125V PPB 1DIA BKR 06 (FWPT TRIP RLY FPTX/U1)		EH2 (20 A)	AB
		1DIA/PPB	809

NV - Not Vulnerable To Contact Chatter.

1DP-F06BR/MCB	OEE-146 Rev 15	GENERAL-ELECTRIC	NV
125/250V DC 1DP BKR F06BR (FWPT 1A MISC CONT)		THEF (50 A)	TB
(1MS-40)		1DP	796

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: FWPT B Controls

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***IMSV A0043**

FWPT STOP VALVE

1FDWPS0248	OEE-146-01 Rev 15	UNITED ELECTRIC	CA
FWPT 1B SUCTION PRESS SWITCH (1MS-43)		J6-9575 (CAT # 670)	TB
		1SGFP	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1FDWPS0256	OEE-146-18 Rev 6	MELETRON CO.	CA
FWPT 1B DISCHARGE PRESSURE (HIGH) SWITCH		ME-312-6SS49A	TB
		1MC-E25	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS186-A(PS1A)	OEE-146-01 Rev 15	SQUARE-D	CA
FWPT 1B STOP VALVE ALARM PRESS SWITCH		AGS11-9013	TB
(1MS-43)		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

1TOPS187-A(PS2A)	OEE-146-01 Rev 15	SQUARE-D	CA
FWPT 1B THRUST BEARING WEAR TRIP (1MS-43)		ALG5-9013	TB
		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS195-A(PS11A)	OEE-146-01 Rev 15	SQUARE-D	CA
FWPT 1B TRIP SOLENOID BLOCKED (1MS-43)		AGS11-9013	TB
		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS196-A(PS12A)	OEE-146-01 Rev 15	SQUARE-D	CA
FWPT 1B INACTIVE THRUST BEARING WEAR		ALG5-9013	TB
(1MS-43)		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1TOPS303-A(PS19A)	OEE-146-01 Rev 15	SQUARE-D	CA
FWPT 1B BEARING OIL PRESS LOW (1MS-43)		9012-GAW-22	TB
		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

OLT/LOWLEVELB/U1(1TOLS0627)	OEE-146-01 Rev 15	MAGNETROL	CA
OIL LEVEL TRIP SWITCH (1MS-43)		TF21-F-M4	TB
		1FDWTR0002	775

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1PS256X	OEE-146-18 Rev 6	STRUTHERS-DUNN	CA
FWPT CONTROL RLY (FWPT 1B CONTROLS) (1MS-43)		219ABAP	TB
		1TTC6	796

Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

SPTDB/U1	OEE-146-01 Rev 15	AGASTAT	CA
SUCTION PRESS TRIP DELAY TIMER (1MS-43)		7012 PC	TB
		1SGFP	775

Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**

SUB SYSTEM: **FWPT B Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1DP-F06DC/MCB 125/250V DC 1DP BKR F06DC (FWPT 1B MISC CONT) (1MS-43) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-146-01 Rev 15	GENERAL-ELECTRIC THEF (50 A) 1DP	NV TB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1CPU0010			
HOTWELL PUMP 1A			
1TC-08 4KV SWGR 1TC BKR 08 (HWP 1A)	OEE-117-46 Rev 10	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TC-08) HOTWELL PUMP 1A UV RLY	OEE-117-46 Rev 10	WESTINGHOUSE CV-2 (1875508) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TC-08) HOTWELL PUMP 1A OC RLY (X PHASE)	OEE-117-46 Rev 10	WESTINGHOUSE CO-5 (1875241) 1TC	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
50-51Z(1TC-08) HOTWELL PUMP 1A OC RLY (Z PHASE)	OEE-117-46 Rev 10	WESTINGHOUSE CO-5 (1875241) 1TC	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
50G(1TC-08) HOTWELL PUMP 1A GROUND OC RLY	OEE-117-46 Rev 10	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CPU0011			
HOTWELL PUMP 1B			
1TD-06 4KV SWGR 1TD BKR 06 (HWP 1B)	OEE-117-59 Rev 7	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TD-06) HOTWELL PUMP 1B UV RLY	OEE-117-59 Rev 7	WESTINGHOUSE CV-2 (1875508) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TD-06) HOTWELL PUMP 1B OC RLY (X PHASE)	OEE-117-59 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
50-51Z(1TD-06) HOTWELL PUMP 1B OC RLY (Z PHASE)	OEE-117-59 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
50G(1TD-06) HOTWELL PUMP 1B GROUND OC RLY	OEE-117-59 Rev 7	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CPU0012 HOTWELL PUMP 1C			
1TE-06 4KV SWGR 1TE BKR 06 (HWP 1C)	OEE-117-73 Rev 7	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TE-06) HOTWELL PUMP 1C UV RLY	OEE-117-73 Rev 7	WESTINGHOUSE CV-2 (1875508) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TE-06) HOTWELL PUMP 1C OC RLY (X PHASE)	OEE-117-73 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TE	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
50-51Z(1TE-06) HOTWELL PUMP 1C OC RLY (Z PHASE)	OEE-117-73 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TE	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Equipment To Go To Its Desired Position.</i>			
50G(1TE-06) HOTWELL PUMP 1C GROUND OC RLY	OEE-117-73 Rev 7	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1CVA0152 UST RISER ISOLATION			
CX1/U1 UST BOTTOM TIE VALVE CONT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-145-54 Rev 16	CUTLER-HAMMER D23MR80A 1MTC3	GERS-RLY-AI2.4 AB 809
1XGB-R06B/(1C-152)/MS 208V MCC 1XGB-R06C STARTER (1C-152) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-145-33 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
1KE-09/MCB 120V PPB 1KE BKR 09 (COND MISC CONTROLS) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-54 Rev 16	GENERAL-ELECTRIC TQL (30 A) 1KE	NV AB 796
1XGB-R06B/(1C-152)/MCB 208V MCC 1XGB BKR R06B (1C-152) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-33 Rev 3	GENERAL-ELECTRIC TEF6 (15/35 A) 1XGB	NV TB 796
1CVA0153 UST RISER ISOLATION			
1XGB-R06A/(1C-153)/MS 208V MCC 1XGB-R06A STARTER (1C-153) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-145-33 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
1XGB-R06A/(1C-153)/MCB 208V MCC 1XGB BKR R06A (1C-153) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-33 Rev 3	GENERAL-ELECTRIC TEF6 (15/35 A) 1XGB	NV TB 796
1CVA0156 UST RISER ISOLATION			
1XGA-F07C/(1C-156)/MS 208V MCC 1XGA-F07C STARTER (1C-156) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-145-34 Rev 1	CLARK BUL 6030 CY-1 (H1) 1XGA	EVAL (MCC QUAL) TB 796
1XGA-F07C/(1C-156)/MCB 208V MCC 1XGA BKR F07C (1C-156) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-34 Rev 1	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGA	NV TB 796

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**SUB SYSTEM: **Valves**Component ID
Name

Ref Dwg/Revision

Manufacturer
Modelno
LocationSAT*
Building
Floor Elev*Chatter Evaluation***1CVA0158**

UST RISER ISOLATION

1XGA-F07D/(1C-158)/MS
208V MCC 1XGA-F07D STARTER (1C-158)

OEE-145-35 Rev 2

CLARK
BUL 6030 CY-1 (H1)
1XGA

EVAL (MCC QUAL)
TB
796

EVAL - Seismically Adequate Per Test Report.

1XGA-F07D/(1C-158)/MCB
208V MCC 1XGA BKR F07D (1C-158)

OEE-145-35 Rev 2

GENERAL-ELECTRIC
TEF6 (65/165 A)
1XGA

NV
TB
796

*NV - Not Vulnerable To Contact Chatter.***1CVA0160**

UST SUPPLY ISOL TO TDEFWP

1XC-R01D/(1C-160)/MS
208V MCC 1XC-R01D STARTER (1C-160)

OEE-145-37 Rev 1

CLARK
BUL 6030 CY-1 (H1)
1XC

EVAL (MCC QUAL)
TB
775

EVAL - Seismically Adequate Per Test Report.

1XC-R01D/(1C-160)/MCB
208V MCC 1XC BKR R01D (1C-160)

OEE-145-37 Rev 1

GENERAL-ELECTRIC
TEF6 (28/68 A)
1XC

NV
TB
775

*NV - Not Vulnerable To Contact Chatter.***1CVA0176**

UST TO COND ISOL VALVE

1CPS0015
UST MAKEUP LEVEL CONTROL (PS-15)

OEE-145-73 Rev 0

ITT BARTON
581A-2
1CPS0015

EVAL (OSC-6642)
TB
838'+0"

EVAL - Seismically Adequate Per Test Report.

1CPS0036
UST MAKEUP LEVEL CONTROL (PS-36)

OEE-145-73 Rev 0

ITT BARTON
581A-2
1CPS0036

EVAL (OSC-6642)
TB
838'+0"

EVAL - Seismically Adequate Per Test Report.

BGAA
UST MAKEUP CONTROL RELAY (C-176,C-187, &
C-192)

OEE-145-73 Rev 0

CUTLER-HAMMER
D26MR22A
1AT3

GERS-RLY-AI2.4
AB
809

GERS - Seismically Adequate Per GERS.

BGAB
UST MAKEUP CONTROL RELAY (C-176,C-187, &
C-192)

OEE-145-73 Rev 0

CUTLER-HAMMER
D26MR22A
1AT3

GERS-RLY-AI2.4
AB
809

GERS - Seismically Adequate Per GERS.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KA-26/MCB(Condensate) 120V PPB 1KA BKR 26 (UST MAKEUP C-176,C-187, & C-192) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-74 Rev 0	GENERAL-ELECTRIC TQL (20A) 1KA	NV TB 775
1SKK-24/MCB(Condensate) 120V PPB 1SKK BKR 24 (UST MAKEUP C-176,C-187, & C-192) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-73 Rev 0	SQUARE-D QOB (20 A) 1SKK	NV AB 809
ICVA0225 POL DEMIN ISOL VALVE (BACKWASH INLET W/A VALVE)			
CR-15 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-35 Rev DG	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
CR-27 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
CR-28 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>GERS - Seismically Adequate Per GERS.</i>	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	TERS-RLY-ARS.4 TB 771
CR-29 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
CR-30 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
CR-37 POL DEMIN ISOL VALVE C-225 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
ICVA0232 POL DEMIN ISOL VALVE (DRAIN U/A VALVE)			
CR-14 POL DEMIN ISOL VALVE C-232 AUX RELAY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OM 225A-35 Rev DG	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

CR-36	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-232 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-1	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-232 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-2	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-232 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***ICVA0233**

POL DEMIN ISOL VALVE (BACKWASH INLET W/B VALVE)

CR-17	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-233 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-39	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-233 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***ICVA0237**

POL DEMIN ISOL VALVE (DRAIN U/B VALVE)

CR-16	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-237 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-38	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-237 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-3	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-237 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-4	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-237 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			

1CVA0240

POL DEMIN ISOL VALVE (BACKWASH INLET W/C VALVE)

CR-19	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-240 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-41	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-240 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***1CVA0244**

POL DEMIN ISOL VALVE (DRAIN U/C VALVE)

CR-18	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-244 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-40	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-244 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-5	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-244 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-6	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-244 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***1CVA0247**

POL DEMIN ISOL VALVE (BACKWASH INLET W/D VALVE)

CR-21	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-247 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-43	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-247 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***ICVA0251**

POL DEMIN ISOL VALVE (DRAIN U/D VALVE)

CR-20	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-251 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-42	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-251 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-7	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-251 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

LR-8	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-251 AUX RELAY		255XCXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***ICVA0254**

POL DEMIN ISOL VALVE (BACKWASH INLET W/E VALVE)

CR-23	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-254 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-45	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-254 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***ICVA0258**

POL DEMIN ISOL VALVE (DRAIN U/E VALVE)

CR-22	OM 225A-35 Rev DG	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-258 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

CR-44	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-258 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condensate**

SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
LR-10 POL DEMIN ISOL VALVE C-258 AUX RELAY	OM 225A-35 Rev DG	STRUTHERS-DUNN 255XCXP 1&2 POWDEX PANEL	CA TB 771
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
LR-9 POL DEMIN ISOL VALVE C-258 AUX RELAY	OM 225A-35 Rev DG	STRUTHERS-DUNN 255XCXP 1&2 POWDEX PANEL	CA TB 771
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1CVA0262 SLURRY TANK ISOLATION VALVE (Z VALVE)			
CR-49 POL DEMIN ISOL VALVE C-262 AUX RELAY	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	GERS-RLY-ARS.4 TB 771
<i>GERS - Seismically Adequate Per GERS.</i>			
CR-51 POL DEMIN ISOL VALVE C-262 AUX RELAY	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	GERS-RLY-ARS.4 TB 771
<i>GERS - Seismically Adequate Per GERS.</i>			
CR-54 POL DEMIN ISOL VALVE C-262 AUX RELAY	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1CVA0263 POL DEMIN ISOL VALVE (X VALVE)			
1CVA0264 SLURRY TANK ISOLATION VALVE (L VALVE)			
1CVA0265 SLURRY TANK ISOLATION VALVE (D VALVE)			
1CVA0267 POL DEMIN ISOL VALVE (VR VALVE)			
CR-32 POL DEMIN ISOL VALVE C-267 AUX RELAY	OM 225A-36 Rev EDF	STRUTHERS-DUNN 219BBXP 1&2 POWDEX PANEL	CA TB 771
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

CR-48	OM 225A-36 Rev EDF	STRUTHERS-DUNN	CA
POL DEMIN ISOL VALVE C-267 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

*Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).***ICVA0268**

POL DEMIN ISOL VALVE (QR VALVE)

CR-46	OM 225A-36 Rev EDF	STRUTHERS-DUNN	GERS-RLY-ARS.4
POL DEMIN ISOL VALVE C-268 AUX RELAY		219BBXP	TB
		1&2 POWDEX PANEL	771

*GERS - Seismically Adequate Per GERS.***ICVA0391**

HOTWELL SUPPLY ISOL TO TDEFW

1XC-R01E/(1C-391)MS	OEE-145-36 Rev 1	CLARK	EVAL (MCC QUAL)
208V MCC 1XC STARTER (1C-391)		BUL 6030 CY-1 (H1)	TB
		1XC	775

EVAL - Seismically Adequate Per Test Report.

1XC-R01E/(1C-391)MCB	OEE-145-36 Rev 1	GENERAL-ELECTRIC	NV
208V MCC 1XC BKR R01D (1C-391)		TEF6 (15/35 A)	TB
		1XC	775

NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate DC Interlocks

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1CPS0227 CONDENSATE BOOSTER PUMP SUCTION HEADER PRESS LOW <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-145-00-A Rev 11	UNITED ELECTRIC J6-358 1FDWPS0227	CA TB 775'+0"
1TOPS0176B FWPT 1A BEARING OIL PRESS LOW <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Tripping Of The HWP's (30 Sec Devices).</i>	OEE-145-00-A Rev 11	SQUARE D ALG3-9013-DR 1A TBOX EH	CNA TB 775'+0"
1TOPS0192B FWPT 1B BEARING OIL PRESS LOW <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Tripping Of The HWP's (30 Sec Devices).</i>	OEE-145-00-A Rev 11	SQUARE D ALG3-9013-DR 1B TBOX EH	CNA TB 775'+0"
1R01 FWPT 1A BRG OIL NORMAL PRESSURE RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1R02 FWPT 1A BRG OIL NORMAL PRESSURE RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1R03 FWPT 1B BRG OIL NORMAL PRESSURE RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1R04 FWPT 1B BRG OIL NORMAL PRESSURE RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1R07 CBP SUCTION HEADER LOW PRESSURE RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	CA AB 809
1R09 FWP 1A SUCTION VALVE CLOSED RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1R10 FWP 1A SUCTION VALVE CLOSED RLY <i>GERs - Seismically Adequate Per GERs.</i>	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	GERs-RLY-AI2.4 AB 809
1DIA-20/MCB 125V PPB 1DIA BKR 20 (COND DC INTLKS) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-145-00-A Rev 11	ITE EH2 (20 A) 1DIA/PPB	NV AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condensate DC Interlocks

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1FDWPS0251 FDW PUMP 1A DISCH PRESS LOW	OEE-145-00-B Rev 12	STATIC-O-RING 9NN-K45-N4-F1A 1MC-D24	CNA TB 775
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Tripping Of The HWP's (30 Sec Devices).</i>			
1FDWPS0253 FDW PUMP 1B DISCH PRESS LOW	OEE-145-00-B Rev 12	STATIC-O-RING 9NN-K45-N4-F1A 1MC-E25	CNA TB 775
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Tripping Of The HWP's (30 Sec Devices).</i>			
1R11 FWP 1B SUCTION VALVE CLOSED RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D23MRD70A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1R12 FWP 1B SUCTION VALVE CLOSED RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D23MRD70A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1R13 FWP DISCHARGE HEADER LOW PRESSURE RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D23MRD70A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1R14 FWP DISCHARGE HEADER LOW PRESSURE RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D23MRD70A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1R251 FWP A DISCHARGE HEADER LOW PRESSURE RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D26MRD40A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1R253 FWP B DISCHARGE HEADER LOW PRESSURE RLY	OEE-145-00-B Rev 12	CUTLER-HAMMER D26MRD40A1 1MTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27/1DIA20A PWR MONITORING RLY (Condensate Support)	OEE-145-00-B Rev 12	CUTLER-HAMMER D23MR40A 1MTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1EDO EM CCW DISCH VALVES OPEN RLY	OEE-136-03 Rev 9	CUTLER-HAMMER D23MRD70A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1ETPR U1 EM TRIP PUMP RESET RLY	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD30A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Momentarily Block Tripping Of CCW Pumps By ETX Relay.</i>			
1ETPRT CCW EM PUMP TRIP RESTART TIMER	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD30A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Momentarily Block Tripping Of CCW Pumps By ETX Relay.</i>			
1ETX EM TRIP AUX RLY	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD704A1 1MTC1	CA AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1POX ALL CCW PUMPS OFF UNIT 1 CCW SYS CONT RLY	OEE-136-02 Rev 11	CUTLER-HAMMER D23MRD704A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
1POX1 ALL CCWP OFF AUX RLY	OEE-136-02 Rev 11	CUTLER-HAMMER D23MRD30A1 1MTC1	CA AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1POX1T ALL CCW PUMPS OFF TIMER	OEE-136-02 Rev 11	CUTLER-HAMMER D23MRD30A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
1POX2 ALL CCW PUMPS OFF AUX TIMER	OEE-136-02 Rev 11	AGASTAT A7012 PE 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>			
1UPOX CCW SYSTEM CONT RLY	OEE-136-03 Rev 9	CUTLER-HAMMER D23MRD704A1 1MTC1	CA AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1UPOX1 CCW SYSTEM CONT RLY	OEE-136-03 Rev 9	CUTLER-HAMMER D23MRD704A1 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
CCWPX1A CCW PUMP 1A AUX RLY	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD704A1 1MTC1	CA AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
CCWPX/1B CCW PUMP 1B AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD704A1 1MTC1	GERS-RLY-AI2.4 AB 809
CCWPX/1C CCW PUMP 1C AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD704A1 1MTC1	GERS-RLY-AI2.4 AB 809
CCWPX/1D CCW PUMP 1D AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-136-01 Rev 13	CUTLER-HAMMER D23MRD704A1 1MTC1	GERS-RLY-AI2.4 AB 809
S-222/1ET CCW EM TRIP RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-136-01 Rev 13	GENERAL-ELECTRIC HEA61C246 1AB3	GERS-RLY-AIO.2 AB 822
1DIA-19/MCB 125V PPB 1DIA BKR 19 (CCW AND VAC PRIMING) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-136-01 Rev 13	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
CRIP/AH/U1 CCW INLET PIPE A HIGH POINT LEVEL SENSOR <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-136-20 Rev 6	B/W CONTROLS LH 1TB-111	CA YD 796
CRIP/AM/U1 CCW INLET PIPE A MID POINT LEVEL SENSOR <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-136-20 Rev 6	B/W CONTROLS LH 1TB-112	CA YD 796
CRIPX/AH/U1 CCW PIPE A HIGH POINT CONT RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-136-20 Rev 6	CUTLER-HAMMER D23MR40A 1MTC1	CA AB 809
CRIPX/AM/U1 CCW PIPE A MID POINT CONT RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-136-20 Rev 6	CUTLER-HAMMER D23MR40A 1MTC1	CA AB 809
1KVID-03/MCB 120V PPB 1KVID BKR 03 (CCW WATER LVL CONTROLS) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-136-20 Rev 6	ITE QP1 (20 A) 1KVID	NV AB 809
CRIP/BH/U1 CCW INLET PIPE B HIGH POINT LEVEL SENSOR <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-136-21 Rev 8	B/W CONTROLS LH 1TB-111	CA YD 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Controls

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
CRIP/BM/U1 CCW INLET PIPE B MID POINT LEVEL SENSOR	OEE-136-21 Rev 8	B/W CONTROLS LH 1TB-111	CA YD 796
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
CRIPX/BH/U1 CCW PIPE B HIGH POINT CONT RLY	OEE-136-21 Rev 8	CUTLER-HAMMER D23MR40A 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
CRIPX/BM/U1 CCW PIPE B MID POINT CONT RLY	OEE-136-21 Rev 8	CUTLER-HAMMER D23MR40A 1MTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1POX3 ONLY 1 CCW PUMP OPER IN STAT AUX RLY	OEE-136-23 Rev 11	CUTLER-HAMMER D23MR804A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1POX4 CCW TIME DELAY RLY	OEE-136-23 Rev 11	AGASTAT 2412 AD 1MTC1	GERS-RLY-PNT.7 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1POX5 CCW SYS CONTROL RELAY	OEE-136-23 Rev 11	CUTLER-HAMMER D26MR40A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
POL/AH/U1 CCW WATER LEVEL LATCHING RLY	OEE-136-22 Rev 2	CUTLER-HAMMER D23MR402A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
POL/AM/U1 CCW WATER LEVEL LATCHING RLY	OEE-136-22 Rev 2	CUTLER-HAMMER D23MR402A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
POL/BH/U1 CCW WATER LEVEL LATCHING RLY	OEE-136-22 Rev 2	CUTLER-HAMMER D23MR402A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
POL/BM/U1 CCW WATER LEVEL LATCHING RLY	OEE-136-22 Rev 2	CUTLER-HAMMER D23MR402A 1MTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condenser Circulating Water**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1CCWPU0001 CCW PUMP 1A			
1TC-05 4KV SWGR 1TC BKR 05 (CCWP 1A)	OEE-117-43 Rev 7	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TC-05) CCW PUMP 1A UV RLY	OEE-117-43 Rev 7	WESTINGHOUSE CV-2 (1875508) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TC-05) CCW PUMP 1A FDR OC (X PHASE)	OEE-117-43 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-05) CCW PUMP 1A OC RLY (Z PHASE)	OEE-117-43 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-05) CCW PUMP 1A GROUND OC RLY	OEE-117-43 Rev 7	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWPU0002 CCW PUMP 1B			
1TD-04 4KV SWGR 1TD BKR 04 (CCWP 1B)	OEE-117-57 Rev 7	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TD-04) CCW PUMP 1B UV RLY	OEE-117-57 Rev 7	WESTINGHOUSE CV-2 (1875508) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TD-04) CCW PUMP 1B OC RLY (X PHASE)	OEE-117-57 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TD-04) CCW PUMP 1B OC RLY (Z PHASE)	OEE-117-57 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
50G(1TD-04) CCW PUMP 1B GROUND OC RLY	OEE-117-57 Rev 7	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWPU0003 CCW PUMP 1C			
1TE-04 4KV SWGR 1TE BKR 04 (CCWP 1C)	OEE-117-71 Rev 6	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TE-04) CCW PUMP 1C UV RLY	OEE-117-71 Rev 6	WESTINGHOUSE CV-2 (1875508) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TE-04) CCW PUMP 1C OC RLY (X PHASE)	OEE-117-71 Rev 6	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TE-04) CCW PUMP 1C OC RLY (Z PHASE)	OEE-117-71 Rev 6	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TE-04) CCW PUMP 1C GROUND OC RLY	OEE-117-71 Rev 6	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWPU0004 CCW PUMP 1D			
1TC-06 4KV SWGR 1TC BKR 06 (CCWP 1D)	OEE-117-44 Rev 7	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TC-06) CCW PUMP 1D UV RLY	OEE-117-44 Rev 7	WESTINGHOUSE CV-2 (1875508) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(1TC-06) CCW PUMP 1D FDR OC (X PHASE)	OEE-117-44 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
50-51Z(1TC-06) CCW PUMP 1D OC RLY (Z PHASE)	OEE-117-44 Rev 7	WESTINGHOUSE CO-5 (1875241) ITC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-06) CCW PUMP 1D GROUND OC RLY	OEE-117-44 Rev 7	ITE GR-5 (202D6141) ITC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWPU0024 EFWPT OIL COOLER PUMP			
1R06 LOW EFDWP BEARING OIL PRESSURE RELAY	OEE-145-00-A Rev 11	CUTLER-HAMMER D23MRD70A1 1MTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1R06T LOW EFDWP BEARING OIL PRESSURE AUX TD RELAY	OEE-145-00-A Rev 11	AGASTAT A7012PE 1MTC2	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS3-04C/(1EFDWTP OIL COOL WTR PUMP)MS 208V MCC 1XS3-04C STARTER (EFWPT OIL COOL WATER PUMP)	OEE-136-29 Rev 1	CLARK BUL 6013 CY-1 (G1) 1XS3	CA AB 796
<i>Rugged Starter Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS3-04C/(1EFDWTP OIL COOL WTR PUMP)MCB 208V MCC 1XS3 BKR 04C (EFWP BRG OIL COOL PUMP)	OEE-136-29 Rev 1	GENERAL-ELECTRIC TEF6 (15 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1CCWVA0001 CCW EM DISCH ISOL			
1MVC2-01A/1CCW-1/MS 250V MCC 1MVC2-01A STARTER (CCW-1)	OEE-136-08 Rev 3	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1MVC2-01A/MCB 250V MCC 1MVC2 BKR 01A (CCW-1)	OEE-136-08 Rev 3	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0002 CCW EM DISCH ISOL			
1MVC2-01B/1CCW-2/MS 250V MCC 1MVC2-01B STARTER (CCW-2)	OEE-136-09 Rev 3	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1MVC2-01B/MCB 250V MCC 1MVC2 BKR 01B (CCW-2)	OEE-136-09 Rev 3	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0003 CCW EM DISCH ISOL			
1MVC2-01C/1CCW-3/MS 250V MCC 1MVC2-01C STARTER (CCW-3)	OEE-136-10 Rev 4	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1MVC2-01C/MCB 250V MCC 1MVC2 BKR 01C (CCW-3)	OEE-136-10 Rev 4	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0004 CCW EM DISCH ISOL			
1MVC2-01D/1CCW-4/MS 250V MCC 1MVC2-01D STARTER (CCW-4)	OEE-136-11 Rev 3	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Condenser Circulating Water**

SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1MVC2-01D/MCB 250V MCC 1MVC2 BKR 01D (CCW-4)	OEE-136-11 Rev 3	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0005 CCW EM DISCH ISOL			
1MVC2-02A/1CCW-5/MS 250V MCC 1MVC2-02A STARTER (CCW-5)	OEE-136-12 Rev 3	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1MVC2-02A/MCB 250V MCC 1MVC2 BKR 02A (CCW-5)	OEE-136-12 Rev 3	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0006 CCW EM DISCH ISOL			
1MVC2-02B/1CCW-6/MS 250V MCC 1MVC2-02B STARTER (CCW-6)	OEE-136-13 Rev 3	CLARK BUL 6258 CY-1 1MVC2	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1MVC2-02B/MCB 250V MCC 1MVC2 BKR 02B (CCW-6)	OEE-136-13 Rev 3	GENERAL-ELECTRIC THEF (15/35 A) 1MVC2	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
CCWVA0008 EM DISCHARGE VALVE			
1DP-F05C/(CCW-8)/MS 125/250V DC 1DP-F05C STARTER (CCW-8)	OEE-136-15 Rev 10	CLARK BUL 6258 1DP	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1DP-F05C/(CCW-8)/MCB 125/250V DC 1DP BKR F05C (CCW-8)	OEE-136-15 Rev 10	GENERAL-ELECTRIC THED (40 A) 1DP	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0010 DISCH ISOL VALVE			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1XS1-F02C/(1CCW-10)/MS 600V MCC 1XS1-F02C STARTER (1CCW-10)	OEE-136-04 Rev 7	CLARK BUL 6030 CY-1 (B1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-F02C/(1CCW-10)/MCB 600V MCC 1XS1 BKR F02C (1CCW-10)	OEE-136-04 Rev 7	GENERAL-ELECTRIC THEF (20 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0011 DISCH ISOL VALVE			
1XS2-F02D/(1CCW-11)/MS 600V MCC 1XS2-F02D STARTER (1CCW-11)	OEE-136-05 Rev 7	CLARK BUL 6030 CY-1 (B1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-F02D/(1CCW-11)/MCB 600V MCC 1XS2 BKR F02D (1CCW-11)	OEE-136-05 Rev 7	GENERAL-ELECTRIC THEF (20 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0012 DISCH ISOL VALVE			
1XS3-02E/(1CCW-12)/MS 600V MCC 1XS3-02E STARTER (1CCW-12)	OEE-136-06 Rev 8	CLARK BUL 6030 CY-1 (B1A) 1XS3	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS3-02E/(1CCW-12)/MCB 600V MCC 1XS3 BKR 02E (1CCW-12)	OEE-136-06 Rev 8	GENERAL-ELECTRIC THEF (20 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0013 DISCH ISOL VALVE			
1XS1-F03C/(1CCW-13)/MS 600V MCC 1XS1-F03C STARTER (1CCW-13)	OEE-136-07 Rev 8	CLARK BUL 6030 CY-1 (B1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-F03C/(1CCW-13)/MCB 600V MCC 1XS1 BKR F03C (1CCW-13)	OEE-136-07 Rev 8	GENERAL-ELECTRIC THEF (20 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1CCWVA0026 CCW VENT VALVE			
XOD1-03A/1CCW-26/MS 208V MCC XOD1-03A STARTER (1CCW-26)	OEE-136-16 Rev 4	CLARK BUL 6240 CY-1 XOD1	EVAL (MCC QUAL) YD 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
XOD1-03A/MCB 208V MCC XOD1 BKR 03A (1CCW-26)	OEE-136-16 Rev 4	GENERAL-ELECTRIC TEF6 (15/35 A) XOD1	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0027 CCW VENT VALVE			
XOD2A-03A/1CCW-27/MS 208V MCC XOD2A-03A STARTER (1CCW-27)	OEE-136-16 Rev 4	CLARK T310031-76 XOD2A	EVAL (MCC QUAL) YD 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
XOD2A-03A/MCB 208V MCC XOD2A BKR 03A (1CCW-27)	OEE-136-16 Rev 4	WESTINGHOUSE 30MCP (100/300 A) XOD2A	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0028 CCW VENT VALVE			
XOD1-03B/1CCW-28/MS 208V MCC XOD1-03B STARTER (1CCW-28)	OEE-136-17 Rev 7	CLARK BUL 6240 CY-1 XOD1	EVAL (MCC QUAL) YD 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
XOD1-03B/MCB 208V MCC XOD1 BKR 03B (1CCW-28)	OEE-136-17 Rev 7	GENERAL-ELECTRIC TEF6 (15/35 A) XOD1	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0029 CCW VENT VALVE			
XOD2A-03B/1CCW-29/MS 208V MCC XOD2A-03B STARTER (1CCW-29)	OEE-136-17 Rev 7	CLARK T310031-76 XOD2A	EVAL (MCC QUAL) YD 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Condenser Circulating Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
XOD2A-03B/MCB 208V MCC XOD2A BKR 03B (1CCW-29)	OEE-136-17 Rev 7	WESTINGHOUSE 30MCP (100/300 A) XOD2A	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0269 CROSSOVER ISOLATION TO A			
1XSF-F01D(600V)/(1CCW-269)/MS 600V MCC 1XSF-F01D STARTER (1CCW-269)	OEE-151-35 Rev 3	GTE-SYLVANIA BUL 6240 1XSF(600V)	EVAL (SSF QUAL) SSF 817
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-F01D(600V)/(1CCW-269)/MCB 600V MCC 1XSF BKR F01D (1CCW-269)	OEE-151-35 Rev 3	GENERAL-ELECTRIC THED (30 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CCWVA0287 SSF ISOL VALVE			
1XSF-F01BL(600V)/(RSC-1CCW-287)/MS 600V REMOTE STARTER (1CCW-287) (FED FROM 600V MCC 1XSF-F01BL)	OEE-151-49 Rev 0	GTE-SYLVANIA BUL 6038/40 TM 1RSC-1CCW-287/ENCL	EVAL (OSC-6642) SSF 758
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-F01BL(600V)/(RSC-1CCW-287)/MCB 600V MCC 1XSF BKR F01BL (1CCW-287)	OEE-151-49 Rev 0	GENERAL-ELECTRIC THED (20 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Control Rod Position

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RPI/U1 UNIT 1 CONT ROD POSITION INDICATORS	OM 201-2871 Rev D4	DIAMOND POWER 703255 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RPIAMP-A01/U1(Typical) ROD POSITION AMPLIFIER A01	OM 201-2871 Rev D4	DIAMOND POWER ASSY' 707193-103 1SL-6	NV AB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
K-60/U1 ABS/REL RPI SELECT RLY	OM 201-1421 Rev C	T-BAR 956410 1SL-6	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
K-61/U1 ABS/REL RPI SELECT RLY	OM 201-1421 Rev C	T-BAR 956410 1SL-6	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
K-62/U1 ABS/REL RPI SELECT RLY	OM 201-1421 Rev C	T-BAR 956410 1SL-6	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1KX-14/MCB 120V PPB 1KX BKR 14 (RPI PWR SOURCE)	O-705-A Rev 61	ITE CC (20 A) 1KX	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Feedwater

SUB SYSTEM: ATWS Mitigation Cont

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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AMSACChannel1/U1

U1 AMSAC Channel 1

ROM221CH1/U1 ATWS PLC OUTPUT MODULE	OEE-147-18 Rev 0	SQUARE D SY/MAX 8030/ROM-221 1ATWSCP	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

AB/U1 U1 ATWS AUX RELAY	OEE-147-18 Rev 0	STRUTHERS-DUNN 219FXXP 1ATWSCP	CA AB 838
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Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.

BB1/U1 ATWS INTERFACE RLY	OEE-147-18 Rev 0	STRUTHERS-DUNN 219DXBP 1TBATWS1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

CC1/U1 ATWS INTERFACE RLY	OEE-147-18 Rev 0	STRUTHERS-DUNN 219DXBP 1TBATWS1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Cannot Block The Starting Of THE MDEFW Pump .

DD1/U1 ATWS INTERFACE RLY	OEE-147-18 Rev 0	STRUTHERS-DUNN 219DXBP 1TBATWS1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Cannot Block The Starting Of THE MDEFW Pump .

1FDWPY2000 ATWS POWER SUPPLY (UNIT 1 AMSAC CHANNEL 1)	OEE-147-13 Rev 2	AT&T 1000/E101/T440 1ATWSCP	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

1KG-28/MCB 120V PPB 1KG BKR 28 (UNIT 1 AMSAC CHANNEL 1)	OEE-147-13 Rev 2	GENERAL-ELECTRIC TQL (30 A) 1KG	NV AB 838
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*NV - Not Vulnerable To Contact Chatter.***AMSACChannel2/U1**

U1 AMSAC Channel 2

ROM221CH2/U1 ATWS PLC OUTPUT MODULE	OEE-147-28 Rev 1	SQUARE D SY/MAX 8030/ROM-221 1ATWSCP	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

BB2/U1 ATWS INTERFACE RLY	OEE-147-28 Rev 1	STRUTHERS-DUNN 219DXBP 1TBATWS2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**

SUB SYSTEM: **ATWS Mitigation Cont**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
CC2/U1 ATWS INTERFACE RLY	OEE-147-28 Rev 1	STRUTHERS-DUNN 219DXBP 1TBATWS2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Cannot Block The Starting Of THE MDEFW Pump .</i>			
DB/U1 ATWS AUX RELAY	OEE-147-28 Rev 1	STRUTHERS-DUNN 219FXXP 1ATWSCP	CA AB 838
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
DD2/U1 ATWS INTERFACE RLY	OEE-147-28 Rev 1	STRUTHERS-DUNN 219DXBP 1TBATWS2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because Chatter Cannot Block The Starting Of THE MDEFW Pump .</i>			
1FDWPY2001 ATWS POWER SUPPLY (UNIT 1 AMSAC CHANNEL 2)	OEE-147-13 Rev 2	AT&T 1000/E101/T440 1ATWSCP	NV AB 838
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KG-29/MCB 120V PPB 1KG BKR 29 (UNIT 1 AMSAC CHANNEL 2)	OEE-147-13 Rev 2	GENERAL-ELECTRIC TQL (20 A) 1KG	NV AB 838
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Emergency Turbine Pump**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
1MSVA0082			
TDEFW STEAM SUPPLY			
1XA-A-R05A/(1MS-82)/MS 208V MCC 1XA-A-R05A STARTER (1MS-82)	OEE-147 Rev 6	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-R05A/(1MS-82)/MCB 208V MCC 1XA-A BKR R05A (1MS-82)	OEE-147 Rev 6	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0084			
TDEFW STEAM SUPPLY			
1XA-A-R05B/(1MS-84)/MS 208V MCC 1XA-A-R05B STARTER (1MS-84)	OEE-147-01 Rev 7	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-R05B/(1MS-84)/MCB 208V MCC 1XA-A BKR R05B (1MS-84)	OEE-147-01 Rev 7	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0087			
TDEFW MS ISOLATION VALVE			
1MSEP0016 1MS-87 E/P CONVERTER	OEE-147-02-A Rev 6	FISHER 3582-I-53 1MSVA0087	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPT0057 STEAM TO EFWPT PRESS XMTR	OEE-147-02-A Rev 6	ROSEMOUNT 1151GP9E22T1122B 1MC-E16	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSSS0042 STM TO EFWPT PRESS VALVE (CONTROLS 1MS-87)	OEE-147-02-A Rev 6	MOORE PRODUCTS 352BA11NNF 1MC-E16	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MS94X EFWPT CONTROL RLY (1MS-87)	OEE-147-02 Rev 23	CUTLER-HAMMER D26MRD40A1/D26MD10 1AT8	CA AB 809

Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**
SUB SYSTEM: **Emergency Turbine Pump**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1MSPY0042 UNIT 1 UPS (1MSSS0042 - 1MS-87)	OEE-147-02-A Rev 6	ELGAR IPS 1100X 1IPS1100X/U1	CA AB 796'+6"
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1DIB-03/MCB 125V PPB 1DIB BKR 03 (TURB MISC CTRL) (1MS-87)	OEE-147-02 Rev 23	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KC-31/MCB 120V PPB 1KC BKR 31 (1MSSS0042)	OEE-147-02-A Rev 6	GENERAL-ELECTRIC TQL (20 A) 1KC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0093 TDEFW MS ISOLATION VALVE			
1FDWPS1009 MAIN FWP DISCH HDR PRESS SWITCH	OEE-147-02 Rev 23	STATIC-O-RING 9N6W5U8CIAJTTNQ 1FDWPS1009	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1FDWPS1010 MAIN FWP B DISCHARGE PRESSURE SWITCH	OEE-147-02 Rev 23	STATIC-O-RING 9N6W5U8CIAJTTNQ 1FDWPS1010	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1FDWPS1011 FWP 1A CONTROL OIL PRESSURE SWITCH	OEE-147-02 Rev 23	STATIC-O-RING 9N6W3U8CIAJTTNQ 1A TBOX EH	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1FDWPS1012 FWP 1B CONTROL OIL PRESS SWITCH	OEE-147-02 Rev 23	STATIC-O-RING 6N6W3U8C1AJTTNQ 1B TBOX EH	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1EFWCB 1MS-93 CONTROL RLY	OEE-147-02 Rev 23	CUTLER-HAMMER D26MR40A/D87XDL30 1UB1	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1SV74X EFWPT CONTROL RLY	OEE-147-02 Rev 23	CUTLER-HAMMER D26MR40A 1UB1	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1KVID-09/MCB 120V PPB 1KVID BKR 09 (1MS-93)	OEE-147-02 Rev 23	ITE QP1 (20 A) 1KVID	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**

SUB SYSTEM: **Emergency Turbine Pump**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
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1TOPU0022

EFWPT AUX OIL PUMP

1FDWPS0300	OEE-147-05 Rev 10	SQUARE D	CA
1EFPT LOW HYDRAULIC OIL PRESS SWITCH		9013	TB
		1FDWPS0300	775'+0"

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1DP-R03A(EFWPTOILPUMP)/MS	OEE-147-05 Rev 10	CLARK	CA
125/250V DC 1DP-R03A STARTER (1EFWPT AUX OIL PUMP)		BUL 6253	TB
		1DP	796

CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1DP-R03A(EFWPTOILPUMP)/MCB	OEE-147-05 Rev 10	GENERAL-ELECTRIC	NV
125/250V DC 1DP BKR R03A (1EFWPT AUX OIL PUMP)		THEF (28/68 A)	TB
		1DP	796

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1FDWP0275 1A EFW HEADER FLOW IND	OEE-147-34 Rev 0	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWFT0153 1A EFW HEADER FLOW TRANSMITTER	OEE-147-34 Rev 0	ROSEMOUNT 1152DP5E92PB 1FDWFT0153	NV AB 783'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWSI0153 1A EFW HEADER ISOLATED SIGNAL TRANSMITTER (FLOW IND)	OEE-147-34 Rev 0	ROCHESTER-INSTRUMENTS SC-1302 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWSQRT0153 1A EFW HEADER SQUARE ROOT EXTRACTOR (FLOW IND)	OEE-147-34 Rev 0	ROCHESTER-INSTRUMENTS SC-1330 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWPY0153 1A EFW HEADER POWER SUPPLY (FLOW IND)	OEE-147-34 Rev 0	LAMBDA 48-LCS-CC 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIC-09/MCB(1FDWP0275) 120V PPB 1KVIC BKR 9 (1FDWP0275)	OEE-147-34 Rev 0	ITE QP1 (20 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWP0276 1B EFW HEADER FLOW IND	OEE-147-35 Rev 0	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWFT0154 1B EFW HEADER FLOW TRANSMITTER	OEE-147-35 Rev 0	ROSEMOUNT 1152DP5E92PB 1FDWFT0154	NV AB 783'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWSI0154 1B EFW HEADER ISOLATED SIGNAL TRANSMITTER (FLOW IND)	OEE-147-35 Rev 0	ROCHESTER-INSTRUMENTS SC-1302 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWSQRT0154 1B EFW HEADER SQUARE ROOT EXTRACTOR (FLOW IND)	OEE-147-35 Rev 0	ROCHESTER-INSTRUMENTS SC-1330 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWPY0154 1B EFW HEADER POWER SUPPLY (FLOW IND)	OEE-147-35 Rev 0	LAMBDA 48-LCS-CC 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Instrumentation**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

1KVIC-09/MCB(1FDWP0276)	OEE-147-35 Rev 0	ITE	NV
120V PPB 1KVIC BKR 9 (1FDWP0276)		QP1 (20 A)	AB
		1KVIC	809

NV - Not Vulnerable To Contact Chatter.

1FDWP0277	O-422-M-37 Rev 9	WESTINGHOUSE	NV
1A EFW HEADER FLOW IND		VX-252	AB
		1UB1	822

NV - Not Vulnerable To Contact Chatter.

1FDWFT0129	O-422-M-37 Rev 9	ROSEMOUNT	NV
1A EFW HEADER FLOW		1152DP5E92PB	AB
		1FDWFT0129	775'+0"

NV - Not Vulnerable To Contact Chatter.

1FDWPY0129	O-422-M-37 Rev 9	LAMBDA	NV
1A EFW HEADER FLOW (POWER SUPPLY)		48-LCS-CC	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

1FDWSI0129	O-422-M-37 Rev 9	ROCHESTER INSTRUMENTS	NV
1A EFW HEADER FLOW (ISOLATED SIGNAL TRANSMITTER)		SC-1302	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

1FDWSQRT0129	O-422-M-37 Rev 9	ROCHESTER INSTRUMENTS	NV
1A EFW HEADER FLOW (SQUARE ROOT EXTRACTOR)		SC-1330	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

1FDWP0278	O-422-M-37 Rev 9	WESTINGHOUSE	NV
1B EFW HEADER FLOW IND		VX-252	AB
		1UB1	822

NV - Not Vulnerable To Contact Chatter.

1FDWFT0130	O-422-M-37 Rev 9	ROSEMOUNT	NV
1B EFW HEADER FLOW		1152DP5E92PB	AB
		1FDWFT0130	796'+6"

NV - Not Vulnerable To Contact Chatter.

1FDWPY0130	O-422-M-37 Rev 9	LAMBDA	NV
1B EFW HEADER FLOW (POWER SUPPLY)		48-LCS-CC	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

1FDWSI0130	O-422-M-37 Rev 9	ROCHESTER INSTRUMENTS	NV
1B EFW HEADER FLOW (ISOLATED SIGNAL TRANSMITTER)		SC-1302	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

1FDWSQRT0130	O-422-M-37 Rev 9	ROCHESTER INSTRUMENTS	NV
1B EFW HEADER FLOW (SQUARE ROOT EXTRACTOR)		SC-1330	AB
		1SGLC	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1FDWPU0004

MDEFW PUMP 1A

1TD-00 4KV SWGR 1TD BKR 0 (MDEFWP 1A)	OEE-117-90 Rev 7	ITE 5HK-350 (1200 A) 1TD	NV TB 796
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NV - Not Vulnerable To Contact Chatter.

1FDWPS0382 FWPT 1A CONTROL OIL PRESS SWITCH	OEE-117-90 Rev 7	CUSTOM COMPONENTS CC-604GZ3 1B TBOX EH	EVAL (OSC-6642) TB 775'+0"
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EVAL - Seismically Adequate Per Test Report.

1FDWPS0384 FWPT 1B CONTROL OIL PRESS SWITCH	OEE-117-90 Rev 7	CUSTOM COMPONENTS CC-604GZ3 1A TBOX EH	EVAL (OSC-6642) TB 775'+0"
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EVAL - Seismically Adequate Per Test Report.

1XRA MDEFWP 1A CONTROL RLY	OEE-117-90 Rev 7	CUTLER-HAMMER D26MRD30A1 1TD	GERS-RLY-A12.4 TB 796
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GERS - Seismically Adequate Per GERS.

50-51(1TD-0) MDEFW PUMP 1A OC RLY	OEE-117-90 Rev 7	ITE 51L (223T5341) 1TD	NV TB 796
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NV - Not Vulnerable To Contact Chatter.

50G(1TD-0) MDEFW PUMP 1A GROUND OC RLY	OEE-117-90 Rev 7	ITE GR-5 (202D6141UL) 1TD	NV TB 796
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*NV - Not Vulnerable To Contact Chatter.***1LPSVA0516**

EFW PUMP 1A LPSW ISOLATION VALVE

1SLA MDEFWP 1A CONT RLY	OEE-155-41 Rev 2	CUTLER-HAMMER D26MR40A 1MTC4	GERS-RLY-A12.4 AB 809
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GERS - Seismically Adequate Per GERS.

RX/AAU1 STEAM GEN LEVEL AUX RLY	OEE-155-41 Rev 2	STRUTHERS-DUNN 219BBXP 1SGLC	GERS-RLY-ARS.4 AB 809
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GERS - Seismically Adequate Per GERS.

RX/ABU1 STEAM GEN LEVEL AUX RLY	OEE-155-41 Rev 2	STRUTHERS-DUNN 219BBXP 1SGLC	GERS-RLY-ARS.4 AB 809
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GERS - Seismically Adequate Per GERS.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KVIB-06/MCB(SGLC1) 120V PPB 1KVIB BKR 06 (POWER TO SGLC1)	OEE-155-41 Rev 2	ITE QPI (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWPU0005			
MDEFW PUMP 1B			
1TE-00 4KV SWGR 1TE BKR 00 (MDEFWP 1B)	OEE-117-91 Rev 7	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWPS0383 FWPT 1A CONTROL OIL PRESS LOW	OEE-117-91 Rev 7	CUSTOM COMPONENTS CC-604GZ3 1B TBOX EH	EVAL (OSC-6642) TB 775'+0"
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1FDWPS0385 FWPT 1B CONTROL OIL PRESS LOW	OEE-117-91 Rev 7	CUSTOM COMPONENTS CC-604GZ3 1B TBOX EH	EVAL (OSC-6642) TB 775'+0"
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XRB MDEFWP 1B CONTROL RLY	OEE-117-91 Rev 7	CUTLER-HAMMER D26MRD40A1 1TE	GERS-RLY-AI2.4 TB 796
<i>GERS - Seismically Adequate Per GERS.</i>			
50-51(1TE-0) MDEFW PUMP 1B OC RLY	OEE-117-91 Rev 7	ITE 51L (223T5341) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50G(1TE-0) MDEFW PUMP 1B GROUND OC RLY	OEE-117-91 Rev 7	ITE GR-5 (202D6141UL) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0525			
EFW PUMP 1B LPSW ISOLATION VALVE			
1SLB MDEFWP 1B CONT RLY	OEE-155-40 Rev 2	CUTLER-HAMMER D26MR40A 1MTC4	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
RX/BAU1 STEAM GEN LEVEL AUX RLY	OEE-155-40 Rev 2	STRUTHERS-DUNN 219BBXP 1SGLC	GERS-RLY-ARS.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**

SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RX/BBU1 STEAM GEN LEVEL AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-155-40 Rev 2	STRUTHERS-DUNN 219BBXP ISGLC	GERS-RLY-ARS.4 AB 809
1KVIC-06/MCB(SGLC1) 120V PPB 1KVIC BKR 06 (POWER TO SGLC1) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-40 Rev 2	ITE QP1 (20 A) 1KVIC	NV AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Feedwater

SUB SYSTEM: Valves

Component ID
Name

Ref Dwg/Revision

Manufacturer
Modelno
LocationS4T*
Building
Floor Elev*Chatter Evaluation***1FDWVA0105**

SG 1A SAMPLE ISOLATION

1CR-56(1FDW-105)(CA-V4A)(1ES-1)	OEE-157-02 Rev 13	CUTLER-HAMMER	CA
1FDW-105 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-49(1FDW-105)(CA-V4A)(1ES-1)	OEE-157-02 Rev 13	CUTLER-HAMMER	CA
1FDW-105 CONTROL RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1FDW-105)(CA-V4A)(1ES-1)	OEE-157-02 Rev 13	BAILEY CONTROLS	CA
RO RLY (1FDW-105)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XS1-R06D/(1FDW-105)/MS	OEE-157-02 Rev 13	CLARK	EVAL (MCC QUAL)
208V MCC 1XS1-R06D STARTER (1FDW-105)		BUL 6030 CY-1 (H1A)	AB
		1XS1	796

EVAL - Seismically Adequate Per Test Report.

1XS1-R06D/(1FDW-105)/MCB	OEE-157-02 Rev 13	GENERAL-ELECTRIC	NV
208V MCC 1XS1 BKR R06D (1FDW-105)		THEF (15 A)	AB
		1XS1	796

*NV - Not Vulnerable To Contact Chatter.***1FDWVA0106**

SG 1A SAMPLE ISOLATION

1CR-40(1FDW-106)(CA-V5A)(1ES-2)	OEE-157-05 Rev 12	CUTLER-HAMMER	CA
1FDW-106 ESFAS INTERFACE RLY		D23MRD40A	AB
		1ESTC2	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-36(1FDW-106)(CA-V5A)(1ES-2)	OEE-157-05 Rev 12	CUTLER-HAMMER	GERS-RLY-A12.4
1FDW-106 CONTROL RLY		D23MRD40A	AB
		1ESTC2	809

GERS - Seismically Adequate Per GERS.

RO(1FDW-106)(CA-V5A)(1ES-2)	OEE-157-05 Rev 12	BAILEY CONTROLS	CA
RO RLY (1FDW-106)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1DIB-25/(1FDW-106)/MCB	OEE-157-05 Rev 12	ITE	NV
125V PPB 1DIB BKR 25 (1FDW-106)		EH2 (50 A)	AB
		1DIB/PPB	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Feedwater

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
Chatter Evaluation			

1FDWVA0107

SG 1B SAMPLE ISOLATION

1CR-57(1FDW-107)(CA-V4B)(1ES-1)	OEE-157-03 Rev 14	CUTLER-HAMMER	CA
1FDW-107 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-50(1FDW-107)(CA-V4B)(1ES-1)	OEE-157-03 Rev 14	CUTLER-HAMMER	CA
1FDW-107 CONTROL RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1FDW-107)(CA-V4B)(1ES-1)	OEE-157-03 Rev 14	BAILEY CONTROLS	CA
RO RLY (1FDW-107)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XS1-R06E/(1FDW-107)MS	OEE-157-03 Rev 14	CLARK	EVAL (MCC QUAL)
208V MCC 1XS1-R06E STARTER (1FDW-107)		BUL 6030 CY-1 (H1A)	AB
		1XS1	796

EVAL - Seismically Adequate Per Test Report.

1XS1-R06E/(1FDW-107)MCB	OEE-157-03 Rev 14	GENERAL-ELECTRIC	NV
208V MCC 1XS1 BKR R06E (1FDW-107)		THEF (15 A)	AB
		1XS1	796

*NV - Not Vulnerable To Contact Chatter.***1FDWVA0108**

SG 1B SAMPLE ISOLATION

1CR-41(1FDW-108)(CA-V5B)(1ES-2)	OEE-157-06 Rev 11	CUTLER-HAMMER	CA
1FDW-108 ESFAS INTERFACE RLY		D23MRD40A	AB
		1ESTC2	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-37(1FDW-108)(CA-V5B)(1ES-2)	OEE-157-06 Rev 11	CUTLER-HAMMER	GERS-RLY-AI2.4
1FDW-108 CONTROL RLY		D23MRD40A	AB
		1ESTC2	809

GERS - Seismically Adequate Per GERS.

RO(1FDW-108)(CA-V5B)(1ES-2)	OEE-157-06 Rev 11	BAILEY CONTROLS	CA
RO RLY (1FDW-108)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1DIB-25/(1FDW-108)MCB	OEE-157-06 Rev 11	ITE	NV
125V PPB 1DIB BKR 25 (1FDW-108)		EH2 (50 A)	AB
		1DIB/PPB	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**

SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1FDWVA0315			
MDEFW PUMP 1A ISOLATION			
RXA/U1 1FDW-315 CONTROL RLY	OEE-145-68 Rev 4	CUTLER-HAMMER D26MRD70A1 1UB1	GERS-RLY-AI2.4 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			
1DIB-10/MCB 125V PPB 1DIB BKR 10 (1FDW-315)	OEE-145-68 Rev 4	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT0080 SG 1A LEVEL TRANSMITTER	OM 201-L-42 SH1 Rev D1	ROSEMOUNT 1154DP5RB 1FDWLT0080	NV RB 777'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWP0270 SG 1A LEVEL INDICATOR	OM 201-L-42 SH.1 Rev D1	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAL1/U1(FDWEP0270) SIGNAL COMPARATOR CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2837A13G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAS1/U1(FDWEP0270) AUX RELAY CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2838A89G01 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NCB/U1(FDWEP0270) CONTROL CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2838A30G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NCD/U1(FDWEP0270) DRIVER CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2837A16G03 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NPC/U1(FDWEP0270) POTENTIOMETER CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2837A93G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NRC/U1(FDWEP0270) RELAY CARD FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2837A87G04 1SGLC	CA AB 809

Rugged Relay Whose Contact Chatter Can Change Control Set Points All Of Which Can Be Used For Safe Shutdown.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
NLP/U1(FDWEP0270) LOOP POWER SUPPLY FOR (FDWEP0270)	OM 201-L-42 SH1 Rev D1	WESTINGHOUSE 2837A12G02 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-06/MCB(1FDWLT0080) 120V PPB 1KVIB BKR 06 (1FDWLT0080)	OM 201-L-42 SH. 1 Rev D1	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT0082 SG 1A LEVEL TRANSMITTER	OM 201-L-42 SH3 Rev D1	ROSEMOUNT 1154DP5RB 1FDWLT0082	NV RB 777'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWP0272 SG 1A LEVEL INDICATOR	OM 201-L-42 SH.3 Rev D1	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAL1/U1(FDWEP0272) SIGNAL COMPARATOR CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2837A13G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAS1/U1(FDWEP0272) AUX RELAY CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2838A89G01 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NCB/U1(FDWEP0272) CONTROL CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2838A30G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NCD/U1(FDWEP0272) DRIVER CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2837A16G03 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NPC/U1(FDWEP0272) POTENTIOMETER CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2837A93G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NRC/U1(FDWEP0272) RELAY CARD FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2837A87G04 1SGLC	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Change Control Set Points All Of Which Can Be Used For Safe Shutdown.</i>			
NLP/U1(FDWEP0272) LOOP POWER SUPPLY FOR (FDWEP0272)	OM 201-L-42 SH3 Rev D1	WESTINGHOUSE 2837A12G02 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1KVIC-06/MCB(1FDWLT0082) 120V PPB 1KVIC BKR 06 (1FDWLT0082)	OM 201-L-42 SH. 3 Rev D1	ITE QP1 (20 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWVA0316 MDEFW PUMP 1B ISOLATION			
RXB/U1 1FDW-316 CONTROL RLY	OEE-145-66 Rev 3	CUTLER-HAMMER D26MRD70A1 1UB1	GERS-RLY-AI2.4 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			
1DIC-13/MCB 125V PPB 1DIC BKR 13 (1FDW-316)	OEE-145-66 Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT0081 SG 1B LEVEL TRANSMITTER	OM 201-L-42 SH2 Rev D1	ROSEMOUNT 1154DP5RB 1FDWLT0081	NV RB 777'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWP0273 SG 1B LEVEL INDICATOR	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAL1/U1(FDWEP0273) SIGNAL COMPARATOR CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2837A13G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAS1/U1(FDWEP0273) AUX RELAY CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2838A89G01 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NCB/U1(FDWEP0273) CONTROL CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2838A30G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NCD/U1(FDWEP0273) DRIVER CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2837A16G03 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NPC/U1(FDWEP0273) POTENTIOMETER CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2837A93G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Feedwater

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NRC/U1(FDWEP0273) RELAY CARD FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2837A87G04 1SGLC	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Change Control Set Points All Of Which Can Be Used For Safe Shutdown.</i>			
NLP/U1(FDWEP0273) LOOP POWER SUPPLY FOR (FDWEP0273)	OM 201-L-42 SH2 Rev D1	WESTINGHOUSE 2837A12G02 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-06/MCB(1FDWLT0081) 120V PPB 1KVIB BKR 06 (1FDWLT0081)	OEE-155-41 Rev 2	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT0083 SG 1B LEVEL TRANSMITTER	OM 201-L-42 SH4 Rev D1	ROSEMOUNT 1154DP5RB 1FDWLT0083	NV RB 777'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWP0271 SG 1B LEVEL INDICATOR	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE VX-252 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAL1/U1(FDWEP0271) SIGNAL COMPARATOR CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2837A13G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NAS1/U1(FDWEP0271) AUX RELAY CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2838A89G01 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NCB/U1(FDWEP0271) CONTROL CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2838A30G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NCD/U1(FDWEP0271) DRIVER CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2837A16G03 1SGLC	EVAL (OM-393-0001) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
NPC/U1(FDWEP0271) POTENTIOMETER CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2837A93G01 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NRC/U1(FDWEP0271) RELAY CARD FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2837A87G04 1SGLC	CA AB 809

Rugged Relay Whose Contact Chatter Can Change Control Set Points All Of Which Can Be Used For Safe Shutdown.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Feedwater

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NLP/U1(FDWEP0271) LOOP POWER SUPPLY FOR (FDWEP0271)	OM 201-L-42 SH4 Rev D1	WESTINGHOUSE 2837A12G02 1SGLC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIC-06/MCB(1FDWLT0083) 120V PPB 1KVIC BKR 06 (1FDWLT0083)	OEE-155-40 Rev 2	ITE QP1 (20 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWVA0347 MDEFW PUMP 1B ISOLATION			
1XSF-F01C(600V)/(1FDW-347)/MS 600V MCC 1XSF-F01C STARTER (1FDW-347)	OEE-151-36 Rev 3	GTE-SYLVANIA BUL 6240 1XSF(600V)	EVAL (SSF QUAL) SSF 817
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-F01C(600V)/(1FDW-347)/MCB 600V MCC 1XSF BKR F01C (1FDW-347)	OEE-151-36 Rev 3	GENERAL-ELECTRIC THED (30 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWVA0368 TDEFWP HEADER 1A ISOLATION			
1XI-01BT/(RSC-1FDW-368)/MS REMOTE STARTER (1FDW-368) (FED FROM 600V MCC 1XI-01BT)	OEE-147-12 Rev 4	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-368/ENCL	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XI-01BT/(FDWREMOTESTARTERS)/MCB 600V MCC 1XI BKR 01BT (FDW REMOTE STARTERS FEEDER)	OEE-147-12 Rev 4	GENERAL-ELECTRIC THED (30 A) 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWVA0369 TDEFWP HEADER 1B ISOLATION			
1XL-0AB/(RSC-1FDW-369)/MS REMOTE STARTER (1FDW-369) (FED FROM 600V MCC 1XL-0AB)	OEE-147-11 Rev 4	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-369/ENCL	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-0AB/(FDWREMOTESTARTERS)/MCB 600V MCC 1XL BKR 0AB (REM STARTER FEEDER)	OEE-147-11 Rev 4	GENERAL-ELECTRIC THED (30 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Feedwater**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1FDWVA0372

MDEFW PUMP 1A ISOLATION

1XL-0AB/(RSC-1FDW-372)/MS REMOTE STARTER (1FDW-372) (FED FROM 600V MCC 1XL-0AB) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-147-07 Rev 3	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-372/ENCL	EVAL (OSC-6642) AB 809
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1FDWVA0374

STARTUP HEADER ISOLATION

1XL-0AB/(RSC-1FDW-374)/MS REMOTE STARTER (1FDW-374) (FED FROM 600V MCC 1XL-0AB) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-147-08 Rev 2	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-374/ENCL	EVAL (OSC-6642) AB 809
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1FDWVA0382

MDEFW PUMP 1B ISOLATION

1XI-01BT/(RSC-1FDW-382)/MS REMOTE STARTER (1FDW-382) (FED FROM 600V MCC 1XI-01BT) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-147-09 Rev 3	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-382/ENCL	EVAL (OSC-6642) AB 809
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1FDWVA0384

STARTUP HEADER ISOLATION

1XI-01BT/(RSC-1FDW-384)/MS REMOTE STARTER (1FDW-384) (FED FROM 600V MCC 1XI-01BT) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-147-10 Rev 2	GTE-SYLVANIA BUL 6040 TM 1RSC-1FDW-384/ENCL	EVAL (OSC-6642) AB 809
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Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Lighting**SUB SYSTEM: DC Lights**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1L21-30/MCB 250V DC PPB 1L21 BKR 30 (EMER LIGHTING)	O-846-A Rev 12	GENERAL-ELECTRIC TQL (20 A) 1L21	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RTNA PHASE A NORM BUS EPSL TEST RLY	OEE-117-01-B Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
27NA/U1 PHASE A NORM BUS UV RLY	OEE-117-01-B Rev 3	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Closing Of The Emergency Startup Breakers.</i>			
27NXA/U1 PHASE A NORM BUS UV AUX RLY	OEE-117-01-B Rev 3	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERS-RLY-ARH.5 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27NYA1/U1 PHASE A NORM BUS UV AUX RLY	OEE-117-01-B Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27NYA2/U1 PHASE A NORM BUS UV AUX RLY	OEE-117-01-B Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27NYA3/U1 PHASE A NORM BUS UV AUX RLY	OEE-117-01-B Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
1DIA-13/MCB 125V PPB 1DIA BKR 13 (NORM VOLT CKT PH A)	OEE-117-01-B Rev 3	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RTNB PHASE B NORM BUS EPSL TEST RLY	OEE-117-01-C Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
27NB/U1 PHASE B NORM BUS UV RLY	OEE-117-01-C Rev 3	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Closing Of The Emergency Startup Breakers.</i>			
27NXB/U1 PHASE B NORM BUS UV AUX RLY	OEE-117-01-C Rev 3	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERS-RLY-ARH.5 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27NYB1/U1 PHASE B NORM BUS UV AUX RLY	OEE-117-01-C Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27NYB2/U1 PHASE B NORM BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-C Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27NYB3/U1 PHASE B NORM BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-C Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
1DIB-11/MCB 125V PPB 1DIB BKR 11 (NORM VOLT CKT PH B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-C Rev 3	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
1RTNC PHASE C NORM BUS EPSL TEST RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-D Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
27NC/U1 PHASE C NORM BUS UV RLY <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Block The Closing Of The Emergency Startup Breakers.</i>	OEE-117-01-D Rev 3	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
27NXC/U1 PHASE C NORM BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-D Rev 3	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERS-RLY-ARH.5 AB 809
27NYC1/U1 PHASE C NORM BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-D Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27NYC2/U1 PHASE C NORM BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-D Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27NYC3/U1 PHASE C NORM BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-D Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP1	CA AB 809
1DIC-07/MCB 125V PPB 1DIC BKR 07 (NORM VOLT CKT PH C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-D Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
1RTEA PHASE A STUP BUS EPSL TEST RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27EA/U1 PHASE A STUP BUS UV RLY	OEE-117-01-E Rev 4	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Trip And/Or Block Closing Of The Emergency Startup Breakers.</i>			
27EXA/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERs-RLY-ARH.5 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EYA1/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EYA1X/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EYA2/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EYA2X/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EYA3/U1 PHASE A STUP BUS UV AUX RLY	OEE-117-01-E Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
1DIA-14/MCB 125V PPB 1DIA BKR 14 (STUP VOLT CKT PH A)	OEE-117-01-E Rev 4	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RTEB PHASE B STUP BUS EPSL TEST RLY	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
27EB/U1 PHASE B STUP BUS UV RLY	OEE-117-01-F Rev 4	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Trip And/Or Block Closing Of The Emergency Startup Breakers.</i>			
27EXB/U1 PHASE B STUP BUS UV AUX RLY	OEE-117-01-F Rev 4	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERs-RLY-ARH.5 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27EYB1/U1 PHASE B STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYB1X/U1 PHASE B STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYB2/U1 PHASE B STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYB2X/U1 PHASE B STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYB3/U1 PHASE B STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-F Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
1DIB-12/MCB 125V PPB 1DIB BKR 12 (STUP VOLT CKT PH B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-F Rev 4	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
1RTEC PHASE C STUP BUS EPSL TEST RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EC/U1 PHASE C STUP BUS UV RLY <i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Trip And/Or Block Closing Of The Emergency Startup Breakers.</i>	OEE-117-01-G Rev 4	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CNA AB 809
27EXC/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP1	GERS-RLY-ARH.5 AB 809
27EYC1/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYC1X/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Power Switching Logic**SUB SYSTEM: **EPSL**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27EYC2/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYC2X/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
27EYC3/U1 PHASE C STUP BUS UV AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-G Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
1DIC-08/MCB 125V PPB 1DIC BKR 08 (STUP VOLT CKT PH C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-G Rev 4	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
1ESG1 ESFAS INTERFACE RLY CH 1 <i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>	OEE-117-01-H Rev 13	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
1ESG1X ESFAS INTERFACE AUX RLY CH 1 <i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD30A1/D26MD10/D 1EPSLP1	CA AB 809
1ESG1X1 ESFAS INTERFACE AUX RLY CH 1 <i>Rugged Relay Whose Contact Chatter Has No Effect Because The Circuit Is Designed To Begin Operation After SSE.</i>	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD70A1 1TD	CA TB 796
1RLS1 CH A LOAD SHED TIMING RLY <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-117-01-H Rev 13	WESTINGHOUSE TD-5 (293B301A25) 1EPSLP1	EVAL (OSC-6642) AB 809
1RLS1X CH A LOAD SHED TIMING AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD704A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
1RLS1X1 CH A LOAD SHED TIMING AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD43A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
1RTX1 EPSL LOADSHED TEST RLY CH A <i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD30A1 1EPSLP1	CA AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RTX2 EPSL LOADSHED TEST RLY CH B	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD30A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1SBC1A STBY BKR CLOSE TIMING RLY	OEE-117-01-H Rev 13	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
1SBC1AX STBY BKR CLOSING AUX RLY	OEE-117-01-H Rev 13	CUTLER-HAMMER D26MRD70A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1SBC1B STBY BKR CLOSE TIMING RLY	OEE-117-01-H Rev 13	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
1SBC1BX STBY BKR CLOSING AUX RLY	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD70A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B11 U1 MFB 1 UV RLY	OEE-117-01-H Rev 13	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
27B11X U1 MFB 1 UV AUX RLY	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD70A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
86AXSB1/1 STBY BKR LOCKOUT AUX RLY	OEE-117-01-H Rev 13	CUTLER-HAMMER D23MRD70A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			
1DIA-15/MCB 125V PPB 1DIA BKR 15 (LOAD SHED CH A)	OEE-117-01-H Rev 13	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1K1TDA STUP ANTI-RECYCLE TIMING INITIATE RLY	OEE-117-01-H-01 Rev 2	AGASTAT 7024 PE 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1RK1A STUP BUS ANTI-RECYCLE CH A INITIATE AUX RLY	OEE-117-01-H-01 Rev 2	CUTLER-HAMMER D26MRD70A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1RK2A STUP BUS ANTI-RECYCLE CH A INITIATE AUX RLY	OEE-117-01-H-01 Rev 2	CUTLER-HAMMER D26MRD70A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1SBC3A STBY BKR CLOSE TIMING RLY	OEE-117-01-H-01 Rev 2	CUTLER-HAMMER D26MRD30A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1STARA STUP BUS ANTI-RECYCLE BKR LOCKOUT RLY	OEE-117-01-H-01 Rev 2	CUTLER-HAMMER D26MRD70A1/D87XDL30 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1ESG2 ESFAS INTERFACE RLY CH 2	OEE-117-01-I Rev 11	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1ESG2X ESFAS INTERFACE AUX RLY CH 2	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD30A1/D26MF 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1RLS2 CH B LOAD SHED TIMING RLY	OEE-117-01-I Rev 11	WESTINGHOUSE TD-5 (293B301A25) 1EPSLP1	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1RLS2X CH B LOAD SHED TIMING AUX RLY	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD70A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1RLS2X1 CH B LOAD SHED TIMING AUX RLY	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD43A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1RTY1 EPSL LOADSHED TEST RLY CH A	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD30A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1RTY2 EPSL LOADSHED TEST RLY CH B	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD30A1 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>			
1SBC2A STBY BKR CLOSE TIMING RLY	OEE-117-01-I Rev 11	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1SBC2AX STBY BKR CLOSING AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-I Rev 11	CUTLER-HAMMER D26MRD70A1 1EPSLP1	GERS-RLY-AI2.4 AB 809
1SBC2B STBY BKR CLOSE TIMING RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-I Rev 11	WESTINGHOUSE TD-5 (293B301A26) 1EPSLP1	CA AB 809
1SBC2BX STBY BKR CLOSING AUX RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD70A1/D26MF 1EPSLP1	GERS-RLY-AI2.4 AB 809
27B21 U1 MFB 2 UV RLY <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-I Rev 11	WESTINGHOUSE CV-7 (1875524) 1EPSLP1	CA AB 809
27B21X U1 MFB 2 UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD70A1 1EPSLP1	CA AB 809
86AXSB2/1 STBY BKR LOCKOUT AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked/Bypassed By Rugged Device(s).</i>	OEE-117-01-I Rev 11	CUTLER-HAMMER D23MRD70A1 1EPSLP1	CA AB 809
1DIB-13/MCB 125V PPB 1DIB BKR 13 (LOAD SHED CH B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-I Rev 11	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
1K1TDB STUP ANTI-RECYCLE INITIATE TIMING RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-I-01 Rev 2	AGASTAT 7024 PE 1EPSLP1	CA AB 809
1RK1B STUP BUS ANTI-RECYCLE CH B INITIATE AUX RLY <i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>	OEE-117-01-I-01 Rev 2	CUTLER-HAMMER D26MRD70A1 1EPSLP1	CA AB 809
1RK2B STUP BUS ANTI-RECYCLE CH B INITIATE AUX RLY <i>Rugged Relay Whose Contact Chatter Can Cause Transfer To The Underground Emergency Power Path.</i>	OEE-117-01-I-01 Rev 2	CUTLER-HAMMER D26MRD70A1 1EPSLP1	CA AB 809
1SBC3B STBY BKR CLOSE TIMING RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-I-01 Rev 2	CUTLER-HAMMER D26MRD30A1 1EPSLP1	CA AB 809

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Power Switching Logic**

SUB SYSTEM: **EPSL**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1STARB STUP BUS ANTI-RECYCLE BKR LOCKOUT RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-I-01 Rev 2	CUTLER-HAMMER D26MRD70A1/D87XDL30 1EPSLP1	GERS-RLY-AI2.4 AB 809
1RTS11A PHASE A STDY BUS EPSL TEST RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-J Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
27S11A PHASE A STDY BUS UV RLY <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-J Rev 4	WESTINGHOUSE CV-7 (1875524) 1EPSLP2	CA AB 809
27SX11A PHASE A STDY BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-J Rev 4	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP2	CA AB 809
27SY11A1 PHASE A STDY BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-J Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
27SY11A2 PHASE A STDY BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-J Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
1DIA-27/MCB 125V PPB 1DIA BKR 27 (STBY VOLT CKT PH A) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-J Rev 4	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
1RTS11B PHASE B STDY BUS EPSL TEST RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-K Rev 4	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
27S11B PHASE B STDY BUS UV RLY <i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-K Rev 4	WESTINGHOUSE CV-7 (1875524) 1EPSLP2	CA AB 809
27SX11B PHASE B STDY BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-K Rev 4	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP2	CA AB 809
27SY11B1 PHASE B STDY BUS UV AUX RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-117-01-K Rev 4	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

27SY11B2	OEE-117-01-K Rev 4	CUTLER-HAMMER	CA
PHASE B STDY BUS UV AUX RLY		D23MRD704A1	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

1DIB-09/MCB	OEE-117-01-K Rev 4	ITE	NV
125V PPB 1DIB BKR 09 (STBY VOLT CKT PH B)		EH2 (20 A)	AB
		1DIB/PPB	809

NV - Not Vulnerable To Contact Chatter.

1RTS11C	OEE-117-01-L Rev 4	CUTLER-HAMMER	CA
PHASE C STDY BUS EPSL TEST RLY		D23MRD70A1	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

27S11C	OEE-117-01-L Rev 4	WESTINGHOUSE	CA
PHASE C STDY BUS UV RLY		CV-7 (1875524)	AB
		1EPSLP2	809

CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

27SX11C	OEE-117-01-L Rev 4	WESTINGHOUSE	CA
PHASE C STDY BUS UV AUX RLY		MG-6/NO (1163-801)	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

27SY11C1	OEE-117-01-L Rev 4	CUTLER-HAMMER	CA
PHASE C STDY BUS UV AUX RLY		D23MRD704A1	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

27SY11C2	OEE-117-01-L Rev 4	CUTLER-HAMMER	CA
PHASE C STDY BUS UV AUX RLY		D23MRD704A1	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

1DIC-11/MCB	OEE-117-01-L Rev 4	ITE	NV
125V PPB 1DIC BKR 11 (STBY VOLT CKT PH C)		EH2 (20 A)	AB
		1DIC/PPB	809

NV - Not Vulnerable To Contact Chatter.

1RTS12A	OEE-117-01-M Rev 3	CUTLER-HAMMER	CA
PHASE A STDY BUS EPSL TEST RLY		D23MRD70A1	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

27S12A	OEE-117-01-M Rev 3	WESTINGHOUSE	CA
PHASE A STDY BUS UV RLY		CV-7 (1875524)	AB
		1EPSLP2	809

CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).

27SX12A	OEE-117-01-M Rev 3	WESTINGHOUSE	CA
PHASE A STDY BUS UV AUX RLY		MG-6/NO (1163-801)	AB
		1EPSLP2	809

Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
27SY12A1 PHASE A STDY BUS UV AUX RLY	OEE-117-01-M Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27SY12A2 PHASE A STDY BUS UV AUX RLY	OEE-117-01-M Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1DIB-21/MCB 125V PPB 1DIB BKR 21 (STBY VOLT CKT PH A)	OEE-117-01-M Rev 3	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RTS12B PHASE B STDY BUS EPSL TEST RLY	OEE-117-01-N Rev 3	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27S12B PHASE B STDY BUS UV RLY	OEE-117-01-N Rev 3	WESTINGHOUSE CV-7 (1875524) 1EPSLP2	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
27SX12B PHASE B STDY BUS UV AUX RLY	OEE-117-01-N Rev 3	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27SY12B1 PHASE B STDY BUS UV AUX RLY	OEE-117-01-N Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27SY12B2 PHASE B STDY BUS UV AUX RLY	OEE-117-01-N Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1DIC-14/MCB 125V PPB 1DIC BKR 14 (STBY VOLT CKT PH B)	OEE-117-01-N Rev 3	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RTS12C PHASE C STDY BUS EPSL TEST RLY	OEE-117-01-P Rev 3	CUTLER-HAMMER D23MRD70A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27S12C PHASE C STDY BUS UV RLY	OEE-117-01-P Rev 3	WESTINGHOUSE CV-7 (1875524) 1EPSLP2	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Emergency Power Switching Logic**SUB SYSTEM: **EPSL**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
27SX12C PHASE C STDY BUS UV AUX RLY	OEE-117-01-P Rev 3	WESTINGHOUSE MG-6/NO (1163-801) 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27SY12C1 PHASE C STDY BUS UV AUX RLY	OEE-117-01-P Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
27SY12C2 PHASE C STDY BUS UV AUX RLY	OEE-117-01-P Rev 3	CUTLER-HAMMER D23MRD704A1 1EPSLP2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1DIA-28/MCB 125V PPB 1DIA BKR 28 (STBY VOLT CKT PH C)	OEE-117-01-P Rev 3	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27B11A U1 MFB 1 UV RLY PHASE A	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B11B U1 MFB 1 UV RLY PHASE B	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B11C U1 MFB 1 UV RLY PHASE C	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B21A U1 MFB 2 UV RLY PHASE A	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B21B U1 MFB 2 UV RLY PHASE B	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
27B21C U1 MFB 2 UV RLY PHASE C	OEE-117-01-R Rev 2	CUTLER-HAMMER D23MR62A 1MFBMRP	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
RE-2/U1 INTERPOSING AUX RLY FOR TX11A & TX21A	OEE-117-01-S Rev 5	CUTLER-HAMMER D23MRD30A1 1UB1	GERS-RLY-AI2.4 AB 822
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
T11A MAIN FDR BUS 1 UV TIMER CH A RLY	OEE-117-01-S Rev 5	CUTLER-HAMMER D87XDL30 1MFBMRP	NV AB 809
<i>NV - Not Vulnerable to Contact Chatter.(Solid State Device)</i>			
TX11A AUX RLY FOR T11A	OEE-117-01-S Rev 5	CUTLER-HAMMER D23MRD074A1 1MFBMRP	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
1DIA-05/MCB 125V PPB 1DIA BKR 05 (U1 MFB 1 UV LOGIC CH 1)	OEE-117-01-S Rev 5	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
T11B MAIN FDR BUS 1 UV TIMER CH B RLY	OEE-117-01-S-1 Rev 1	CUTLER-HAMMER D87XDL30 1MFBMRP	NV AB 809
<i>NV - Not Vulnerable to Contact Chatter.(Solid State Device)</i>			
TX11B AUX RLY FOR T11B	OEE-117-01-S-1 Rev 1	CUTLER-HAMMER D23MRD074A1 1MFBMRP	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
1DIB-05/MCB 125V PPB 1DIB BKR 05 (U1 MFB 1 UV LOGIC CH 1)	OEE-117-01-S-1 Rev 1	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RE-1/U1 INTERPOSING AUX RLY FOR TX11B & TX21B	OEE-117-01-T Rev 5	CUTLER-HAMMER D23MRD30A1 1UB2	GERs-RLY-AI2.4 AB 822
<i>GERs - Seismically Adequate Per GERs.</i>			
T21A MAIN FDR BUS 2 UV TIMER CH A RLY	OEE-117-01-T Rev 5	CUTLER-HAMMER D87XDL30 1MFBMRP	NV AB 809
<i>NV - Not Vulnerable to Contact Chatter.(Solid State Device)</i>			
TX21A AUX RLY FOR T21A	OEE-117-01-T Rev 5	CUTLER-HAMMER D23MRD074A1 1MFBMRP	GERs-RLY-AI2.4 AB 809
<i>GERs - Seismically Adequate Per GERs.</i>			
1DIC-09/MCB 125V PPB 1DIC BKR 09 (U1 MFB 2 UV LOGIC CH 2)	OEE-117-01-T Rev 5	ITE EH2 (20 A) 1DIC/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
T21B MAIN FDR BUS 2 UV TIMER CH B RLY	OEE-117-01-T-1 Rev 1	CUTLER-HAMMER D87XDL30 1MFBMRP	NV AB 809
<i>NV - Not Vulnerable to Contact Chatter.(Solid State Device)</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Emergency Power Switching Logic

SUB SYSTEM: EPSL

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
TX21B AUX RLY FOR T21B <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-01-T-1 Rev 1	CUTLER-HAMMER D23MRD074A1 1MFBMRP	GERS-RLY-AI2.4 AB 809
1DID-09/(1EPSL-T)/MCB 125V PPB 1DID BKR 09 (U1 MFB 2 UV LOGIC CH 2) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-01-T-1 Rev 1	ITE EH2 (20 A) 1DID/PPB	NV AB 809
CLS1(1TC-02) U1 LOADSHED (C) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-40 Rev 6	CUTLER-HAMMER D23MRD70A1/D26MF 1TC	GERS-RLY-AI2.4 TB 796
CLS2(1TC-15) U1 LOADSHED (C) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-53 Rev 7	CUTLER-HAMMER D23MRD70A1/D26MF 1TC	GERS-RLY-AI2.4 TB 796
DLS1(1TD-02) U1 LOADSHED (D) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-55 Rev 9	CUTLER-HAMMER D23MRD704A1 1TD	GERS-RLY-AI2.4 TB 796
DLS2(1TD-16) U1 LOADSHED (D) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-84 Rev 9	CUTLER-HAMMER D23MRD704A1 1TD	GERS-RLY-AI2.4 TB 796
ELS1(1TE-02) U1 LOADSHED (E) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-69 Rev 7	CUTLER-HAMMER D23MRD704A1 1TE	GERS-RLY-AI2.4 TB 796
ELS2(1TE-15) U1 LOADSHED (E) RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-117-82 Rev 5	CUTLER-HAMMER D23MRD704A1 1TE	GERS-RLY-AI2.4 TB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Engineered Safeguards

SUB SYSTEM: Analog Channel 1

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
ANACHAN1AR/U1(Typical) AUX RLY MODULE (ES CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-04 Rev DH	BAILEY CONTROLS 6622510 IESFAS	EVAL (OSC-6642) AB 822
ANACHAN1BA/U1(Typical) BUFFER AMPLIFIER MODULE (ES CH 1) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-04 Rev DH	BAILEY CONTROLS 6621670A IESFAS	NV AB 822
ANACHAN1BI/U1(Typical) BISTABLE MODULE (ES CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-05 Rev DG	BAILEY CONTROLS 6621500 IESFAS	EVAL (OSC-6642) AB 822
ANACHAN1LB/U1(Typical) LOGIC BUFFER MODULE (ES CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-05 Rev DG	BAILEY CONTROLS 6624726 IESFAS	EVAL (OSC-6642) AB 822
ANACHAN1PWRSUPP/U1(Typical) MOTOROLA PWR SUPP (ES CH 1) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-04 Rev DH	MOTOROLA 6623903 IESFAS	NV AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Analog Channel 2**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
ANACHAN2AR/U1(Typical) AUX RLY MODULE (ES CH 2)	OM 201-J-10 Rev DF	BAILEY CONTROLS 6622510 1ESFAS	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
ANACHAN2BA/U1(Typical) BUFFER AMPLIFIER MODULE (ES CH 2)	OM 201-J-10 Rev DF	BAILEY CONTROLS 6621670A1163 1ESFAS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
ANACHAN2BI/U1(Typical) BISTABLE MODULE (ES CH 2)	OM 201-J-11 Rev DF	BAILEY CONTROLS 6621500E1 1ESFAS	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
ANACHAN2LB/U1(Typical) LOGIC BUFFER MODULE (ES CH 2)	OM 201-J-11 Rev DF	BAILEY CONTROLS 6624726A1 1ESFAS	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
ANACHAN2PWRSUPP/U1(Typical) MOTOROLA PWR SUPP (ES CH 2)	OM 201-J-10 Rev DF	MOTOROLA 6623903A1 1ESFAS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Engineered Safeguards

SUB SYSTEM: Analog Channel 3

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
ANACHAN3AR/U1(Typical) AUX RLY MODULE (ES CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-13 Rev DF	BAILEY CONTROLS 6622510 1ESFAS	EVAL (OSC-6642) AB 822
ANACHAN3BA/U1(Typical) BUFFER AMPLIFIER MODULE (ES CH 3) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-13 Rev DF	BAILEY CONTROLS 6621670 1ESFAS	NV AB 822
ANACHAN3BI/U1(Typical) BISTABLE MODULE (ES CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-14 Rev DF	BAILEY CONTROLS 6621500E1 1ESFAS	EVAL (OSC-6642) AB 822
ANACHAN3LB/U1(Typical) LOGIC BUFFER MODULE (ES CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-14 Rev DF	BAILEY CONTROLS 6624726A1 1ESFAS	EVAL (OSC-6642) AB 822
ANACHAN3PWRSUPP/U1(Typical) MOTOROLA PWR SUPP (ES CH 3) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-13 Rev DF	MOTOROLA 6623903A1 1ESFAS	NV AB 822

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1BSPS0018 RB PRESS SWITCH (ES CH 1A) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0018	EVAL (OSC-6642) AB 809'+0"
1BSPS0019 RB PRESS SWITCH (ES CH 1A) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0019	EVAL (OSC-6642) AB 809'+0"
1RCPT0021P RC PRESS XMTR (ES CH A) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-04 Rev DH	ROSEMOUNT 1153GD9RB 1RCPT0021P	NV RB 825'+0"
CONTBUFF(ESCHAN1)/U1(Typical) CONTACT BUFFER MODULE (ES CHANNEL 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-04 Rev DH	BAILEY CONTROLS 6623999A1 2ESFAS	EVAL (OSC-6642) AB 822
PRTC(ESCHAN1)/U1 PRESS TEST CIRCUIT MODULE (ES CHANNEL 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-04 Rev DH	BAILEY CONTROLS 6623705A1 1ESFAS	EVAL (OSC-6642) AB 822
1BSPT0004P RB PRESS XMTR (ES CH 1A) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-06 Rev DN	ITT-BARTON 764 1BSPT0004P	NV AB 809'+0"
1BSPS0020 RB PRESS SWITCH (ES CH 1B) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0020	EVAL (OSC-6642) AB 809'+0"
1BSPS0021 RB PRESS SWITCH (ES CH 1B) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0021	EVAL (OSC-6642) AB 809'+0"
1RCPT0022P RC PRESS XMTR (ES CH B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-13 Rev DF	ROSEMOUNT 1153GD9RB 1RCPT0022P	NV RB 825'+0"
CONTBUFF(ESCHAN2)/U1(Typical) CONTACT BUFFER MODULE (ES CHANNEL 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-10 Rev DF	BAILEY CONTROLS 6623999A1 1ESFAS	EVAL (OSC-6642) AB 822
PRTC(ESCHAN2)/U1 PRESS TEST CIRCUIT MODULE (ES CHANNEL 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-10 Rev DF	BAILEY CONTROLS 6623705A1 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**

SUB SYSTEM: **Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1BSPT0005P RB PRESS XMTR (ES CH 1B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-12 Rev DI	ITT-BARTON 764 1BSPT0005P	NV AB 809'+0"
1BSPS0022 RB PRESS SWITCH (ES CH 1C) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0022	EVAL (OSC-6642) AB 809'+0"
1BSPS0023 RB PRESS SWITCH (ES CH 1C) <i>EVAL - Seismically Adequate Per Test Report.</i>	O-422-A-8 Rev 15	ASCO SA21AR/TD20A32R 1BSPS0023	EVAL (OSC-6642) AB 809'+0"
1RCPT0023P RC PRESS XMTR (ES CH C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-10 Rev DF	ROSEMOUNT 1153GD9RB 1RCPT0023P	NV RB 825'+0"
CONTBUFF(ESCHAN3)/U1(Typical) CONTACT BUFFER MODULE (ES CHANNEL 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-13 Rev DF	BAILEY CONTROLS 6623999A1 3ESFAS	EVAL (OSC-6642) AB 822
PRTC(ESCHAN3)/U1 PRESS TEST CIRCUIT MODULE (ES CHANNEL 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-13 Rev DF	BAILEY CONTROLS 6623705A1 1ESFAS	EVAL (OSC-6642) AB 822
1BSPT0006P RB PRESS XMTR (ES CH 1C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OM 201-J-15 Rev DI	ITT-BARTON 764 1BSPT0006P	NV AB 809'+0"

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Engineered Safeguards

SUB SYSTEM: Digital Channel 1

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
DIGCH1AR/U1(Typical) AUX RLY MODULE (ES DIG CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-07 Rev DG	BAILEY CONTROLS 6622510C 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH1CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-07 Rev DG	BAILEY CONTROLS 6623999A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH1LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-07 Rev DG	BAILEY CONTROLS 6624040A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH1TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 1) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-07 Rev DG	BAILEY CONTROLS 6624010A 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Digital Channel 2**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
DIGCH2AR/U1(Typical) AUX RLY MODULE (ES DIG CH 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-16 Rev DF	BAILEY CONTROLS 6622510C 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH2CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-16 Rev DF	BAILEY CONTROLS 6623999A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH2LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-16 Rev DF	BAILEY CONTROLS 6624040A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH2TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-16 Rev DF	BAILEY CONTROLS 6624010A 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Engineered Safeguards

SUB SYSTEM: Digital Channel 3

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
DIGCH3AR/U1(Typical) AUX RLY MODULE (ES DIG CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-18 Rev DG	BAILEY CONTROLS 6622510C IESFAS	EVAL (OSC-6642) AB 822
DIGCH3CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-18 Rev DG	BAILEY CONTROLS 6623999A IESFAS	EVAL (OSC-6642) AB 822
DIGCH3LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-18 Rev DG	BAILEY CONTROLS 6624040A IESFAS	EVAL (OSC-6642) AB 822
DIGCH3TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-18 Rev DG	BAILEY CONTROLS 6624010A IESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Digital Channel 4**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
DIGCH4AR/U1(Typical) AUX RLY MODULE (ES DIG CH 4) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-20 Rev DF	BAILEY CONTROLS 6622510C IESFAS	EVAL (OSC-6642) AB 822
DIGCH4CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 4) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-20 Rev DF	BAILEY CONTROLS 6623999A IESFAS	EVAL (OSC-6642) AB 822
DIGCH4LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 4) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-20 Rev DF	BAILEY CONTROLS 6624040A IESFAS	EVAL (OSC-6642) AB 822
DIGCH4TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 4) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-20 Rev DF	BAILEY CONTROLS 6624010A IESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Digital Channel 5**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
DIGCH5AR/U1(Typical) AUX RLY MODULE (ES DIG CH 5) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-22 Rev DG	BAILEY CONTROLS 6622510C 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH5CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 5) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-22 Rev DG	BAILEY CONTROLS 6623999A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH5LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 5) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-22 Rev DG	BAILEY CONTROLS 6624040A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH5TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 5) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-22 Rev DG	BAILEY CONTROLS 6624010A 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Engineered Safeguards

SUB SYSTEM: Digital Channel 6

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
DIGCH6AR/U1(Typical) AUX RLY MODULE (ES DIG CH 6) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-24 Rev DG	BAILEY CONTROLS 6622510C 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH6CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 6) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-24 Rev DG	BAILEY CONTROLS 6623999A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH6LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 6) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-24 Rev DG	BAILEY CONTROLS 6624040A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH6TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 6) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-24 Rev DG	BAILEY CONTROLS 6624010A 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**SUB SYSTEM: **Digital Channel 7**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
DIGCH7AR/U1(Typical) AUX RLY MODULE (ES DIG CH 7) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-26 Rev DF	BAILEY CONTROLS 6622510C 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH7CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 7) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-26 Rev DF	BAILEY CONTROLS 6623999A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH7LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 7) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-26 Rev DF	BAILEY CONTROLS 6624040A 1ESFAS	EVAL (OSC-6642) AB 822
DIGCH7TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 7) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-26 Rev DF	BAILEY CONTROLS 6624010A 1ESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Engineered Safeguards**

SUB SYSTEM: **Digital Channel 8**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
DIGCH8AR/U1(Typical) AUX RLY MODULE (ES DIG CH 8) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-28 Rev DG	BAILEY CONTROLS 6622510C IESFAS	EVAL (OSC-6642) AB 822
DIGCH8CB/U1(Typical) CONTACT BUFFER MODULE (ES DIG CH 8) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-28 Rev DG	BAILEY CONTROLS 6623999A IESFAS	EVAL (OSC-6642) AB 822
DIGCH8LT/U1(Typical) LOGIC TEST MODULE (ES DIG CH 8) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-28 Rev DG	BAILEY CONTROLS 6624040A IESFAS	EVAL (OSC-6642) AB 822
DIGCH8TL/U1(Typical) TRIP LOGIC MODULE (ES DIG CH 8) <i>EVAL - Seismically Adequate Per Test Report.</i>	OM 201-J-28 Rev DG	BAILEY CONTROLS 6624010A IESFAS	EVAL (OSC-6642) AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1HPIP0319 HPI CROSSOVER FLOW INDICATION <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-33-A Rev 1	DIXSON SH202AXTX4 1UB1	NV AB 822
1HPIFT0160 B LOOP INJ FLOW TRANSMITTER <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-33-A Rev 1	ROSEMOUNT 1154HH5RB 1HPIFT0160	NV AB 809'+0"
1HPISR0160 HPI CROSSOVER FLOW SQRT EXT B LOOP <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-33-A Rev 1	ROCHESTER INSTRUMENTS SC-1330 1MTC4	NV AB 809'+0"
HPIFLOWLOPPSB/U1 UNIT 1 HPI FLOW PWR SUPP 'B' (1HPIFT0160) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-33-A Rev 1	LAMBDA LCS-24 1MTC4	NV AB 809
1KVIC-13/MCB 120V PPB 1KVIC BKR 13 (HPI FLOW LOOP) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-33-A Rev 1	ITE QP1 (20 A) 1KVIC	NV AB 809
1HPIP0348 RC PUMP A1 & B1 SEAL INJECTION FLOW <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	DIXSON BG202AXTX 1VB3	NV AB 822
1HPIFT0101 RC PUMP SEAL INLET FLOW XMTR <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	ROSEMOUNT 3051CD1A221AB6 1HPIFT0101	NV AB 783'+0"
1HPIFT0102 RC PUMP SEAL INLET FLOW XMTR <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	ROSEMOUNT 3051CD1A221AB6 1HPIFT0102	NV AB 783'+0"
1KE-20/MCB(1HPIP0348) 120V PPB 1KE BKR 20 (RCP SEAL INJ FLOW) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	GENERAL-ELECTRIC TQL (20 A) 1KE	NV AB 796
1HPIP0349 RC PUMP A2 & B2 SEAL INJECTION FLOW <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	DIXSON BG202AXTX 1VB3	NV AB 822
1HPIFT0103 RC PUMP SEAL INLET FLOW XMTR <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-53 Rev 0	ROSEMOUNT 3051CD1A221AB6 1HPIFT0103	NV AB 783'+0"

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1HPIFT0104 RC PUMP SEAL INLET FLOW XMTR	OEE-151-53 Rev 0	ROSEMOUNT 3051CD1A221AB6 1HPIFT0104	NV AB 783'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KE-20/MCB(1HPIP0349) 120V PPB 1KE BKR 20 (RCP SEAL INJ FLOW)	OEE-151-53 Rev 0	GENERAL-ELECTRIC TQL (20 A) 1KE	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIP0363 HPI A TRAIN INJ FLOW IND	OEE-151-51 Rev 2	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIFT0007A HPI A TRAIN INJ FLOW TRANS	OEE-151-51 Rev 2	ROSEMOUNT 1154HH5RB 1HPIFT0007A	NV AB 758'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-08/MCB(1HPIP0363) 120V PPB 1KVIA BKR 08 (1HPIP0363)	OEE-155-03 Rev 2	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIP0364 HPI B TRAIN INJ FLOW IND	OEE-151-52 Rev 2	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIFT0008A HPI B TRAIN INJ FLOW TRANS	OEE-151-52 Rev 2	ROSEMOUNT 1154HH5RB 1HPIFT0008A	NV AB 758'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-13/MCB(1HPIP0364) 120V PPB 1KVIB BKR 13 (1HPIP0364)	OEE-155-02 Rev 1	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1HPIPU0001 HPI PUMP 1A			
1TC-09 4KV SWGR 1TC BKR 09 (HPIP 1A)	OEE-117-47 Rev 9	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-46(1HPIPA)(HP-P1A)(1ES-1) HPIP 1A ESFAS INTERFACE RLY	OEE-117-47 Rev 9	CUTLER-HAMMER D23MRD30A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TC-09) HPI PUMP 1A OC RLY (X PHASE)	OEE-117-47 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-09) HPI PUMP 1A OC RLY (Z PHASE)	OEE-117-47 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-09) HPI PUMP 1A GROUND OC RLY	OEE-117-47 Rev 9	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
HP11XR/U1 LOW RC SEAL INLET FLOW AUX RLY (HPI PUMP's A & B)	OEE-150-11 Rev 5	CUTLER-HAMMER D23MRD70A1 1MTC3	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
RO(1HPIPA)(HP-P1A)(1ES-1) RO RLY (HPIP 1A)	OEE-117-47 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1DID-05/(1HPIPA&B)MCB 125V PPB 1DID BKR 05 (HPIP 1A AND 1B STUP INTERLOCKS)	OEE-150-11 Rev 5	ITE EH2 (20 A) 1DID/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIPU0002 HPI PUMP 1B			
1TE-09 4KV SWGR 1TE BKR 09 (HPIP 1B)	OEE-117-76 Rev 10	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Pumps

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1CR-75(1HPIPB)(HP-P1B)(1ES-1) HPIP 1B ESFAS INTERFACE RLY	OEE-117-76 Rev 10	CUTLER-HAMMER D23MRD30A1 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1CR-76(1HPIPB)(HP-P1B)(1ES-2) HPIP 1B ESFAS INTERFACE RLY	OEE-117-76 Rev 10	CUTLER-HAMMER D23MRD30A1 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TE-09) HPI PUMP 1B OC RLY (X PHASE)	OEE-117-76 Rev 10	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TE-09) HPI PUMP 1B OC RLY (Z PHASE)	OEE-117-76 Rev 10	WESTINGHOUSE CO-5 (1875241) 1TE	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TE-09) HPI PUMP 1B GROUND OC RLY	OEE-117-76 Rev 10	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RO(1HPIPB)(HP-P1B)(1ES-1) RO RLY (HPIP 1B)	OEE-117-76 Rev 10	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
RO(1HPIPB)(HP-P1B)(1ES-2) RO RLY (HPIP 1B)	OEE-117-76 Rev 10	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1HPIPU0003			
HPI PUMP 1C			
1TD-09 4KV SWGR 1TD BKR 09 (HPIP 1C)	OEE-117-62 Rev 8	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-28(1HPIPC)(HP-P1C)(1ES-2) HPIP 1C ESFAS INTERFACE RLY	OEE-117-62 Rev 8	CUTLER-HAMMER D23MRD30A1 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TD-09) HPI PUMP 1C OC RLY (X PHASE)	OEE-117-62 Rev 8	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
50-51Z(1TD-09) HPI PUMP 1C OC RLY (Z PHASE) <i>EVAL - Seismically Adequate Per Switchgear Function.</i>	OEE-117-62 Rev 8	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
50G(1TD-09) HPI PUMP 1C GROUND OC RLY <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-117-62 Rev 8	ITE GR-5 (202D6141) 1TD	NV TB 796
RO(1HPIPC)(HP-P1C)(1ES-2) RO RLY (HPIP 1C) <i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>	OEE-117-62 Rev 8	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**

SUB SYSTEM: **Valves**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			

1HPVA0003

LETDOWN ISOLATION

1CR-49(1HP-3)(HP-V2A)(1ES-1)	OEE-151 Rev 7	CUTLER-HAMMER	CA
1HP-3 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-43(1HP-3)	OEE-151 Rev 7	CUTLER-HAMMER	CA
1HP-3 CONTROL RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1HP-3)(HP-V2A)(1ES-1)	OEE-151 Rev 7	BAILEY CONTROLS	CA
RO RLY (1HP-3)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XSF-F01C(208V)/(1HP-3)/MS	OEE-151 Rev 7	GTE-SYLVANIA	EVAL (SSF QUAL)
208V MCC 1XSF-F01C STARTER (1HP-3)		BUL 6240	SSF
		1XSF(208V)	817

EVAL - Seismically Adequate Per Test Report.

1XSF-F01C(208V)/(1HP-3)/MCB	OEE-151 Rev 7	GENERAL-ELECTRIC	NV
208V MCC 1XSF BKR F01C (1HP-3)		THED (20 A)	SSF
		1XSF(208V)	817

NV - Not Vulnerable To Contact Chatter.

1HPVA0004

LETDOWN ISOLATION

1CR-50(1HP-4)(HP-V2B)(1ES-1)	OEE-151-01 Rev 9	CUTLER-HAMMER	CA
1HP-4 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-44(1HP-4)	OEE-151-01 Rev 9	CUTLER-HAMMER	CA
1HP-4 CONTROL RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1HP-4)(HP-V2B)(1ES-1)	OEE-151-01 Rev 9	BAILEY CONTROLS	CA
RO RLY (1HP-4)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XSF-F01D(208V)/(1HP-4)/MS	OEE-151-01 Rev 9	GTE-SYLVANIA	EVAL (SSF QUAL)
208V MCC 1XSF-F01D STARTER (1HP-4)		BUL 6240	SSF
		1XSF(208V)	817

EVAL - Seismically Adequate Per Test Report.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1XSF-F01D(208V)/(1HP-4)/MCB 208V MCC 1XSF BKR F01D (1HP-4)	OEE-151-01 Rev 9	GENERAL-ELECTRIC THED (20 A) 1XSF(208V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0005 LETDOWN ISOLATION			
1HPIPS0357 LETDOWN FLOW TEMP HIGH INTERLOCK	OEE-151-03 Rev 13	UNITED ELECT UE-J302-453 1HPIPS0357	CA AB 783'+0"
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1CR-31(1HP-5)(HP-V3)(1ES-2) 1HP-5 ESFAS INTERFACE RLY	OEE-151-03 Rev 13	CUTLER-HAMMER D23MRD30A1 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-30(1HP-5) 1HP-5 CONTROL RLY	OEE-151-03 Rev 13	CUTLER-HAMMER D23MRD30A1 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-5)(HP-V3)(1ES-2) RO RLY (1HP-5)	OEE-151-03 Rev 13	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1DIB-25/(1HP-5)/MCB 125V PPB 1DIB BKR 25 (1HP-5)	OEE-151-03 Rev 13	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0020 RCP SEAL RETURN ISOLATION			
1CR-51(1HP-20)(HP-V12)(1ES-1) 1HP-20 ESFAS INTERFACE RLY	OEE-151-02 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-45(1HP-20) 1HP-20 CONTROL RLY	OEE-151-02 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-20)(HP-V12)(1ES-1) RO RLY (1HP-20)	OEE-151-02 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1XSF-F02C(208V)/(1HP-20)/MS 208V MCC 1XSF-F02C STARTER (1HP-20)	OEE-151-02 Rev 9	GTE-SYLVANIA BUL 6240 1XSF(208V)	EVAL (SSF QUAL) SSF 817
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-F02C(208V)/(1HP-20)/MCB 208V MCC 1XSF BKR F02C (1HP-20)	OEE-151-02 Rev 9	GENERAL-ELECTRIC THED (40 A) 1XSF(208V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0021			
RCP SEAL RETURN ISOLATION			
1CR-32(1HP-21)(HP-V13)(1ES-2) 1HP-21 ESFAS INTERFACE RLY	OEE-151-08 Rev 12	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-32(1HP-21) 1HP-21 CONTROL RLY	OEE-151-08 Rev 12	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-21)(HP-V13)(1ES-2) RO RLY (1HP-21)	OEE-151-08 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1DIB-25/(1HP-21)/MCB 125V PPB 1DIB BKR 25 (1HP-21)	OEE-151-08 Rev 12	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0023			
HPI LDST SUCTION ISOLATION			
1XL-05E/(1HP-23)/MS 208V MCC 1XL-05E STARTER (1HP-23)	OEE-151-12 Rev 4	CLARK BUL 6240 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-05E/(1HP-23)/MCB 208V MCC 1XL BKR 05E (1HP-23)	OEE-151-12 Rev 4	GENERAL-ELECTRIC TEF6 (15/35 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0024			
BWST SUCTION ISOLATION			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1CR-48(1HP-24)(HP-V22A)(1ES-1) 1HP-24 ESFAS INTERFACE RLY	OEE-151-04-01 Rev 2	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-41(1HP-24) 1HP-24 CONTROL RLY	OEE-151-04 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1RX-42(1HP-24) 1HP-24 CONTROL RLY	OEE-151-04 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-24)(HP-V22A)(1ES-1) RO RLY (1HP-24)	OEE-151-04-01 Rev 2	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS1-R01D/(1HP-24)/MS 208V MCC 1XS1-R01D STARTER (1HP-24)	OEE-151-04 Rev 11	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R01D/(1HP-24)/MCB 208V MCC 1XS1 BKR R01D (1HP-24)	OEE-151-04 Rev 11	GENERAL-ELECTRIC TED (20 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0025			
BWST SUCTION ISOLATION			
1CR-30(1HP-25)(HP-V22B)(1ES-2) 1HP-25 ESFAS INTERFACE RLY	OEE-151-05-01 Rev 2	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-29(1HP-25) 1HP-25 CONTROL RLY	OEE-151-05 Rev 10	CUTLER-HAMMER D23MR40A 1ESTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1RX-57(1HP-25) 1HP-25 CONTROL RLY	OEE-151-05 Rev 10	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-25)(HP-V22B)(1ES-2) RO RLY (1HP-25)	OEE-151-05-01 Rev 2	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XS2-R01A/(1HP-25)/MS 208V MCC 1XS2-R01A STARTER (1HP-25)	OEE-151-05 Rev 10	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R01A/(1HP-25)/MCB 208V MCC 1XS2 BKR R01A (1HP-25)	OEE-151-05 Rev 10	GENERAL-ELECTRIC TED (20 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0026 HPI TRAIN 1A INJECTION			
1CR-47(1HP-26)(HP-V24A)(1ES-1) 1HP-26 ESFAS INTERFACE RLY	OEE-151-06 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-39(1HP-26) 1HP-26 CONTROL RLY	OEE-151-06 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC1	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
1RX-40(1HP-26) 1HP-26 CONTROL RLY	OEE-151-06 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1HP-26)(HP-V24A)(1ES-1) RO RLY (1HP-26)	OEE-151-06 Rev 8	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS1-R02A/(1HP-26)/MS 208V MCC 1XS1-R02A STARTER (1HP-26)	OEE-151-06 Rev 8	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R02A/(1HP-26)/MCB 208V MCC 1XS1 BKR R02A (1HP-26)	OEE-151-06 Rev 8	GENERAL-ELECTRIC THED (30 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0027 HPI TRAIN 1B (EMERGENCY) INJECTION			
1CR-29(1HP-27)(HP-V24B)(1ES-2) 1HP-27 ESFAS INTERFACE RLY	OEE-151-07 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RX-28(1HP-27) 1HP-27 CONTROL RLY	OEE-151-07 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC2	GER-S-RLY-AI2.4 AB 809
<i>GER-S - Seismically Adequate Per GERS.</i>			
1RX-58(1HP-27) 1HP-27 CONTROL RLY	OEE-151-07 Rev 8	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
RO(1HP-27)(HP-V24B)(1ES-2) RO RLY (1HP-27)	OEE-151-07 Rev 8	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1XS2-R01B(1HP-27)/MS 208V MCC 1XS2-R01B STARTER (1HP-27)	OEE-151-07 Rev 8	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R01B(1HP-27)/MCB 208V MCC 1XS2 BKR R01B (1HP-27)	OEE-151-07 Rev 8	GENERAL-ELECTRIC THED (30 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0031			
RCP SEAL INJ FLOW CONTROL			
1HPIFT0075 RCP SEAL INJ FLOW TRANSMITTER	OM 201-H-91 Rev DK	ROSEMOUNT 1151DP5J22T0603B2 1HPIFT0075	NV AB 783'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPIP0025 RC PUMP SEAL INLET FLOW INDICATOR	OM 201-H-91 Rev DK	DIXSON SG101AXYX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HP11-FS RCP SEAL INLET FLOW SWITCH (ELECTRONIC MODULE)	OM 201-H-91 Rev DK	SAIC RP 2049-2 1ICS	CNA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Misposition 30 Second Devices.</i>			
1HPIEP0002 1HP-31 VALVE POSITIONER (1HP11-E/P)	OM 201-H-91 Rev DK	BAILEY CONTROLS RP1211 1HPIEP0002	NV AB 775'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPISS0060(1HP11-FICSELSTAT) 1HP-31 SELECTOR STATION	OM 201-H-91 Rev DK	BAILEY CONTROLS RU1000 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1HP11-FICANALOGMEMORY RCP SEAL INLET FLOW ANALOG MEMORY	OM 201-H-91 Rev DK	BAILEY CONTROLS 6620770-1 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HP11-FICCONTROLLER RCP SEAL INLET FLOW CONTROLLER	OM 201-H-91 Rev DK	BAILEY CONTROLS 6620255-10 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
83/SIHF/U1 RCP SEAL INLET FLOW AUTO-MAN TRANS RELAY	OM 201-H-94 Rev DG	BAILEY CONTROLS 6614306-1 1ICS	CNA AB 822
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Misposition Valve HP-31 (30 Second Device).</i>			
1KU-19/MCB(1HP-31) 120V PPB 1KU BKR 19 (ICS CAB 9 FEED)(1HP-31)	OM 201-H-91 Rev DK	ITE CC (20 A) 1KU	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0098 HPI SUCTION CROSSOVER			
1XL-06D/(1HP-98)/MS 208V MCC 1XL-06D STARTER (1HP-98)	OEE-151-11 Rev 5	CLARK BUL 6030 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-06D/(1HP-98)/MCB 208V MCC 1XL BKR 06D (1HP-98)	OEE-151-11 Rev 5	GENERAL-ELECTRIC TEF6 (15/35 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0115 HPI DISCH HEADER SEPARATION			
1XN-05D/(1HP-115)/MS 208V MCC 1XN-05D STARTER (1HP-115)	OEE-151-10 Rev 5	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XN-05D/(1HP-115)/MCB 208V MCC 1XN BKR 05D (1HP-115)	OEE-151-10 Rev 5	GENERAL-ELECTRIC TEF6 (65/165 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1HPVA0275 RCP SEAL RETURN ISOL VALVE			

Table 5-1-01

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XO-R06D/(1HP-275)/MS 208V MCC 1XO-R06D STARTER (1HP-275) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-28 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XO	EVAL (MCC QUAL) AB 796
1XO-R06D/(1HP-275)/MCB 208V MCC 1XO BKR R06D (1HP-275) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-28 Rev 3	GENERAL-ELECTRIC TEF6 (15/35 A) 1XO	NV AB 796
1HPVA0276 RCP SEAL RETURN ISOL VALVE			
1XP-F03C/(1HP-276)/MS 600V MCC 1XP-F03C STARTER (1HP-276) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-29 Rev 4	CLARK BUL 6240 CY-1 (H1) 1XP	EVAL (MCC QUAL) AB 796
1XP-F03C/(1HP-276)/MCB 600V MCC 1XP BKR F03C (1HP-276) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-29 Rev 4	GENERAL-ELECTRIC TEF(15A) 1XP	NV AB 796
1HPVA0355 HPI AUX SPRAY THROTTLE			
1HPIML0064 1HP-355 MANUAL LOADER <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-47 Rev 2	MOORE PRODUCTS 350LANN 1UB1	NV AB 822
1KVIC-07/MCB 120V PPB 1KVIC BKR 07 (M/L 1HPIML0064 - 1HP-355) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-47 Rev 2	ITE QP1 (20 A) 1KVIC	NV AB 809
1HPVA0405 ALT LETDOWN BOUNDARY			
1XSF-F05B(600V)/(1HP-405)/MS 600V MCC 1XSF-F05B STARTER (1HP-405) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-351-34 Rev 2	GTE-SYLVANIA BUL 6240 1XSF(600V)	EVAL (SSF QUAL) SSF 817
1XSF-F05B(600V)/(1HP-405)/MCB 600V MCC 1XSF BKR F05B (1HP-405) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-34 Rev 2	GENERAL-ELECTRIC THED (20 A) 1XSF(600V)	NV SSF 817

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 High Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1HPVA0409			
HPI CROSSOVER ISOLATION			
1XS3-02D/(RSC-1HP-409)/MS REMOTE STARTER (1HP-409) FED FROM 600V MCC 1XS3-02D <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-32 Rev 6	GTE-SYLVANIA T40TA 1RSC-1HP-409/ENCL	EVAL (OSC-6642) AB 796
1XS3-02D/(1HP-409&410)/MCB 600V MCC 1XS3 BKR 02D (1HP-409 & 1HP-410) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-32 Rev 6	GENERAL-ELECTRIC THED (30 A) 1XS3	NV AB 796
1HPVA0410			
HPI CROSSOVER ISOLATION			
1XS3-02D/(RSC-1HP-410)/MS REMOTE STARTER (1HP-410) FED FROM 600V MCC 1XS3-02D <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-33 Rev 6	GTE-SYLVANIA T40TA 1RSC-1HP-410/ENCL	EVAL (OSC-6642) AB 796
1HPVA0417			
ALT LETDOWN BOUNDARY			
1XS3-F02B(600V)/(1HP-417)/MS 600V MCC 1XS3-F02B STARTER (1HP-417) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-38 Rev 2	GTE-SYLVANIA BUL 6240 1XS3(600V)	EVAL (SSF QUAL) SSF 817
1XS3-F02B(600V)/(1HP-417)/MCB 600V MCC 1XS3 BKR F02B (1HP-417) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-38 Rev 2	GENERAL-ELECTRIC THED (20 A) 1XS3(600V)	NV SSF 817
1HPVA0426			
ALT LETDOWN PATH ISOLATION			
1XS3-F04B(600V)/(1HP-426)/MS 600V MCC 1XS3-F04B STARTER (1HP-426) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-151-45 Rev 1	GTE-SYLVANIA BUL 6240 1XS3(600V)	EVAL (SSF QUAL) SSF 817
1XS3-F04B(600V)/(1HP-426)/MCB 600V MCC 1XS3 BKR F04B (1HP-426) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-151-45 Rev 1	GENERAL-ELECTRIC THED (20 A) 1XS3(600V)	NV SSF 817

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 High Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1HPVA0428

ALT LETDOWN PATH ISOLATION

1XSF-1-02B/(1HP-428)/MS
 208V MCC 1XSF-1-02B STARTER (1HP-428)

OEE-151-42 Rev 2

GTE-SYLVANIA
 BUL 6240
 1XSF-1(208V)

EVAL (SSF QUAL)
 SSF
 797

EVAL - Seismically Adequate Per Test Report.

1XSF-1-02B/(1HP-428)/MCB
 208V MCC 1XSF-1 BKR 02B (1HP-428)

OEE-151-42 Rev 2

GENERAL-ELECTRIC
 THED (20 A)
 1XSF-1(208V)

NV
 SSF
 797

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 ICCM

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
ICCAPD/UI ICC PLASMA DISPLAY TRAIN A	OEE-155-03 Rev 2	WESTINGHOUSE ICCM-86 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1TE1602(Typical) CORE EXIT THERMOCOUPLE 1TE1602	O-794-A Rev 4	B & W 1104604 1CET	NV RB —
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCLT0123 1A RCS HOT LEG LVL (ICCM A)	O-422-I-7 Rev 6	ITT BARTON 752 1RCLT0123	NV RB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCLT0125 RV HEAD LEVEL (ICCM A)	O-422-I-7 Rev 6	ITT BARTON 752 1RCLT0125	NV RB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCMT0101 WR RCS PRESS TRAIN A (ICCM)	OEE-155-24 Rev 0	ROCHESTER INSTRUMENTS SC1302 1TBATWS1	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCPT0244 WR RCS PRESS TRAIN A (ICCM)	OEE-155-24 Rev 0	ITT-BARTON 753 1RCPT0244	NV AB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-08/MCB(ICCAPD/UI) 120V PPB 1KVIA BKR 08 (ICC PD A)	OEE-155-03 Rev 2	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
ICP0343 UST 1A LEVEL INDICATION (ICCM)	OEE-155-10 Rev 2	WESTINGHOUSE VX-252 1AB3	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CLT0036 UST 1A LEVEL	OEE-155-10 Rev 2	ROSEMOUNT 1153DB4RB 1CLT0036	NV TB 838'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
ICCBPD/UI ICC PLASMA DISPLAY TRAIN B	OEE-155-02 Rev 1	WESTINGHOUSE ICCM-86 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1TE1607(Typical) CORE EXIT THERMOCOUPLE 1TE1607	O-794-F Rev 4	B & W 1104604 1CET	NV RB —
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 ICCM**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RCLT0124 1B RCS HOT LEG LVL (ICCM B) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-422-I-7 Rev 6	ITT BARTON 752 1RCLT0124	NV RB 809'+0"
1RCLT0126 RV HEAD LEVEL (ICCM B) <i>NV - Not Vulnerable To Contact Chatter.</i>	O-422-I-7 Rev 6	ITT BARTON 752 1RCLT0126	NV RB 809'+0"
1RCMT0102 WR RCS PRESS TRAIN B (ICCM) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-25 Rev 0	ROCHESTER INSTRUMENTS SC1302 1TBATWS2	NV AB 809'+0"
1RCPT0245 WR RCS PRESS TRAIN B (ICCM) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-25 Rev 0	ITT-BARTON 753 1RCPT0245	NV AB 809'+0"
1KVIB-13/MCB(ICCBPD/U1) 120V PPB 1KVIB BKR 13 (ICC PD B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-02 Rev 1	ITE QP1 (20 A) 1KVIB	NV AB 809
1CP0081 UST 1B LEVEL INDICATION (ICCM) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-10 Rev 2	WESTINGHOUSE VX-252 1AB1	NV AB 822
1CLT0015A UST 1B LEVEL <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-155-10 Rev 2	ROSEMOUNT 1153DB4RB 1CLT0015A	NV TB 838'+0"

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Keowee Start**SUB SYSTEM: **Emergency Start Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
KA KEOWEE EM START RLY (CH A) <i>TERS - Seismically Adequate Per TERS.</i>	OEE-120 Rev 11	CUTLER-HAMMER D23MRD70A1 1KESP	TERS-RLY-AI2.4 AB 809
RO(KEOSTART)(1ES-1) RO RLY KEOWEE EMERGENCY START CHANNEL A <i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>	OEE-120 Rev 11	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
SIA SWYD ISOLATED AUX RELAY (CH A) <i>TERS - Seismically Adequate Per TERS.</i>	OEE-120 Rev 11	CUTLER-HAMMER D23MRD70A1 1KESP	TERS-RLY-AI2.4 AB 809
1DIA-02/MCB 125V PPB 1DIA BKR 02 (KEOWEE EMERG START CHANNEL A) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-120 Rev 11	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
KB KEOWEE EM START RLY (CH B) <i>TERS - Seismically Adequate Per TERS.</i>	OEE-120-01 Rev 13	CUTLER-HAMMER D23MRD70A1 1KESP	TERS-RLY-AI2.4 AB 809
RO(KEOSTART)(1ES-2) RO RLY KEOWEE EMERGENCY START CHANNEL B <i>Rugged Relay Whose Contact Chatter Is Bypassed By Rugged Device(s).</i>	OEE-120-01 Rev 13	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
SIB SWYD ISOLATED AUX RELAY (CH B) <i>TERS - Seismically Adequate Per TERS.</i>	OEE-120-01 Rev 13	CUTLER-HAMMER D23MRD70A1 1KESP	TERS-RLY-AI2.4 AB 809
1DIB-02/MCB 125V PPB 1DIB BKR 02 (KEOWEE EMERG START CHANNEL B) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-120-01 Rev 13	ITE EH2 (20 A) 1DIB/PPB	NV AB 809

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1LPIP0015 BWST TEMP INDICATION (PNEUMATIC)	O-422X-25 Rev 11	BAILEY CONTROLS PY1000B 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPITT0001A BWST TEMP TRANSMITTER (PNEUMATIC)	O-422X-25 Rev 11	BAILEY CONTROLS KT-1410A 1LPITK0001	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIP0030 LPI TRAIN 1B INJ FLOW IND	OEE-152-28 Rev 0	DIXSON SA101AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIFT0004P LPI TRAIN 1B INJ FLOW TRANS (Powered by ICCM)	OEE-152-28 Rev 0	ROSEMOUNT 1153DB5RB 1LPIFT0004P	NV AB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SKK-17/MCB(1LPIP0030) 120V PPB 1SKK BKR 17 (1LPIP0030)	OEE-155-05 Rev 2	SQUARE-D QOB (20 A) 1SKK	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIP0037 LPI TRAIN 1A INJ FLOW IND	OEE-152-31 Rev 0	DIXSON SA101AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIFT0005P LPI TRAIN 1A INJ FLOW TRANS (Powered by ICCM)	OEE-152-31 Rev 0	ROSEMOUNT 1153DB5RB 1LPIFT0005P	NV AB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SKJ-21/MCB(1LPIP0037) 120V PPB 1SKJ BKR 21 (1LPIP0037)	OEE-155-11 Rev 1	SQUARE-D QOB (20 A) 1SKJ	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIP0346 BWST LEVEL INDICATION	OEE-155-04 Rev 0	WESTINGHOUSE VX-252 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPILT0002A BWST LEVEL TRANSMITTER	OEE-155-04 Rev 0	ROSEMOUNT 1153DB5PB 1LPITK0001	NV YD 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPIP0348 LPI COOLER TEMP INDICATOR (Powered by ICS)	O-711-E Rev 45	DIXSON SG202AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Low Pressure Injection**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPITE0209 LPI COOLER 1B OUTLET TEMP (ICS Input)	OM 201-H-89 Rev DL	CONAX 7S22-10000X 1LPITE0209	NV AB 809'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LP2-TT1 LPI COOLER OUTLET TEMP SIGNAL CONVERTER (Powered by ICS)	OM 201-H-89 Rev DL	BAILEY CONTROLS 6621367-1 IICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPITE0210 LPI COOLER 1A OUTLET TEMP (ICS Input)	OM 201-H-89 Rev DL	CONAX 7S22-10000X 1LPITE0210	NV AB 771'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LP2-TT2 LPI COOLER OUTLET TEMP SIGNAL CONVERTER (Powered by ICS)	OM 201-H-89 Rev DL	BAILEY CONTROLS 6621367-1 IICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Low Pressure Injection**SUB SYSTEM: **Pumps**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPIPU0001			
1LPI PUMP A			
1TC-10 4KV SWGR 1TC BKR 10 (1LPI P A)	OEE-117-48 Rev 9	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-52(1LPIA) 1LPI A ESFAS INTERFACE RLY	OEE-117-48 Rev 9	CUTLER-HAMMER D23MRD30A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TC-10) 1LPI PUMP A OC RLY (X PHASE)	OEE-117-48 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-10) 1LPI PUMP A OC RLY (Z PHASE)	OEE-117-48 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-10) 1LPI PUMP A GROUND OC RLY	OEE-117-48 Rev 9	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RO(1LPIA)(LP-P1A)(1ES-3) RO RLY (1LPI P A)	OEE-117-48 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1LPIPU0002			
1LPI PUMP B			
1TD-10 4KV SWGR 1TD BKR 10 (1LPI B)	OEE-117-63 Rev 9	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-33(1LPIB) 1LPI B ESFAS INTERFACE RLY	OEE-117-63 Rev 9	CUTLER-HAMMER D23MRD30A1 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TD-10) 1LPI PUMP B OC RLY (X PHASE)	OEE-117-63 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
50-51Z(1TD-10) 1LPI PUMP B OC RLY (Z PHASE)	OEE-117-63 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TD-10) 1LPI PUMP B GROUND OC RLY	OEE-117-63 Rev 9	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RO(1LPIPB)(LP-P1B)(1ES-4) RO RLY (1LPI B)	OEE-117-63 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1LPIPU0003			
1LPI PUMP C			
1TE-10 4KV SWGR 1TE BKR 10 (1LPI C)	OEE-117-77 Rev 5	ITE 5HK-350 (1200 A) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
27(1TE-10) 1LPI PUMP C UV RLY	OEE-117-77 Rev 5	WESTINGHOUSE CV-2 (1875508) 1TE	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.</i>			
50-51X(1TE-10) 1LPI PUMP C OC RLY (X PHASE)	OEE-117-77 Rev 5	WESTINGHOUSE CO-5 (1875241) 1TE	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.</i>			
50-51Z(1TE-10) 1LPI PUMP C OC RLY (Z PHASE)	OEE-117-77 Rev 5	WESTINGHOUSE CO-5 (1875241) 1TE	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.</i>			
50G(1TE-10) 1LPI PUMP C GROUND OC RLY	OEE-117-77 Rev 5	ITE GR-5 (202D6141) 1TE	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
CR1/U1(1TE-10) 1LPI PUMP C AUX RLY	OEE-117-77 Rev 5	STRUTHERS-DUNN 219BBXP 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.</i>			
TDR1(1TE-10) 1LPI PUMP C CONTROL RLY	OEE-117-77 Rev 5	AGASTAT 7014 PB 1TE	CA TB 796
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
TDR2(1TE-10) 1LPI PUMP C CONTROL RLY	OEE-117-77 Rev 5	AGASTAT 7012 PBL 1TE	CA TB 796

Rugged Relay Whose Contact Chatter Is Acceptable Because The Pump Is Normally De-energized And Requires Manual Start.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G-4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Low Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1LPVA0001**

LPI DROPLINE ISOL FROM RCS

1RC3-PSTI RC PRESS INTERLOCK FROM ICS	OEE-152-13 Rev 10	BAILEY CONTROLS 6613303-1 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1XS1-F04D/(1LP-1)/MS 600V MCC 1XS1-F04D STARTER (1LP-1)	OEE-152-13 Rev 10	CLARK BUL 6030 CY-1 (B1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-F04D/(1LP-1)/MCB 600V MCC 1XS1 BKR F04D (1LP-1)	OEE-152-13 Rev 10	GENERAL-ELECTRIC THEF (20 A) 1XS1	NV AB 796

*NV - Not Vulnerable To Contact Chatter.***1LPVA0002**

LPI DROPLINE ISOL FROM RCS

1XS1-F05C/(RSC-1LP-2)/MS 600V REMOTE STARTER F01A (1LP-2)	OEE-152-14 Rev 11	GTE-SYLVANIA/CLARK BUL 6200 XSF(600V)	EVAL (OSC-6642) SSF 777
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-F05C/(RSC-1LP-2)/MCB 600V MCC 1XS1 BKR F05C (1LP-2)	OEE-152-14 Rev 11	GENERAL-ELECTRIC THED (20 A) 1XS1	NV AB 796

*NV - Not Vulnerable To Contact Chatter.***1LPVA0003**

LPI HOT LEG SUCTION

1XO-R03E/(1LP-3)/MS 208V MCC 1XO-R03E STARTER (1LP-3)	OEE-152 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XO	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XO-R03E/(1LP-3)/MCB 208V MCC 1XO BKR R03E (1LP-3)	OEE-152 Rev 3	GENERAL-ELECTRIC TEF6 (28/68 A) 1XO	NV AB 796

*NV - Not Vulnerable To Contact Chatter.***1LPVA0005**

LPI PUMP 1A SUCTION

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XL-06E/(1LP-5)/MS 208V MCC 1XL-06E STARTER (1LP-5) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-05 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
1XL-06E/(1LP-5)/MCB 208V MCC 1XL BKR 06E (1LP-5) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-05 Rev 4	GENERAL-ELECTRIC TEF6 (65/165 A) 1XL	NV AB 771
1LPVA0006 LPI SUCTION CROSSOVER			
1XL-08E/(1LP-6)/MS 208V MCC 1XL-08E STARTER (1LP-6) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-07 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
1XL-08E/(1LP-6)/MCB 208V MCC 1XL BKR 08E (1LP-6) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-07 Rev 2	GENERAL-ELECTRIC TEF6 (65/165 A) 1XL	NV AB 771
1LPVA0007 LPI SUCTION CROSSOVER			
1XN-08E/(1LP-7)/MS 208V MCC 1XN-08E STARTER (1LP-7) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-08 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
1XN-08E/(1LP-7)/MCB 208V MCC 1XN BKR 08E (1LP-7) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-08 Rev 2	GENERAL-ELECTRIC TEF6 (65/165 A) 1XN	NV AB 771
1LPVA0008 LPI PUMP 1B SUCTION			
1XN-06E/(1LP-8)/MS 208V MCC 1XN-06E STARTER (1LP-8) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-06 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
1XN-06E/(1LP-8)/MCB 208V MCC 1XN BKR 06E (1LP-8) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-06 Rev 3	GENERAL-ELECTRIC TEF6 (65/165 A) 1XN	NV AB 771

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPVA0009 LPI CROSSOVER			
1XL-07D/(1LP-9)/MS 208V MCC 1XL-07D STARTER (1LP-9)	OEE-152-17 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-07D/(1LP-9)/MCB 208V MCC 1XL BKR 07D (1LP-9)	OEE-152-17 Rev 2	GENERAL-ELECTRIC TEF6 (28/68 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0010 LPI CROSSOVER			
1XN-07D/(1LP-10)/MS 208V MCC 1XN-07D STARTER (1LP-10)	OEE-152-18 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XN-07D/(1LP-10)/MCB 208V MCC 1XN BKR 07D (1LP-10)	OEE-152-18 Rev 2	GENERAL-ELECTRIC TEF6 (28/68 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0011 LPI COOLER 1A ISOLATION			
1XN-10D/(1LP-11)/MS 208V MCC 1XN-10D STARTER (1LP-11)	OEE-152-22 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XN-10D/(1LP-11)/MCB 208V MCC 1XN BKR 10D (1LP-11)	OEE-152-22 Rev 4	GENERAL-ELECTRIC TEF6 (28/68 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0012 LPI COOLER 1A ISOLATION			
1XS1-R01A/(1LP-12)/MS 208V MCC 1XS1-R01A STARTER (1LP-12)	OEE-152-15 Rev 4	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Model no Location	SAT* Building Floor Elev
1XS1-R01A/(1LP-12)/MCB 208V MCC 1XS1 BKR R01A (1LP-12)	OEE-152-15 Rev 4	GENERAL-ELECTRIC THEF (15 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0013 LPI COOLER 3B ISOLATION			
1XN-10E/(1LP-13)/MS 208V MCC 1XN-10E STARTER (1LP-13)	OEE-152-22 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XN-10E/(1LP-13)/MCB 208V MCC 1XN BKR 10E (1LP-13)	OEE-152-22 Rev 4	GENERAL-ELECTRIC TEF6 (65/165 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0014 LPI COOLER 1B ISOLATION			
1XS2-R02A/(1LP-14)/MS 208V MCC 1XS2-R02A STARTER (1LP-14)	OEE-152-16 Rev 5	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R02A/(1LP-14)/MCB 208V MCC 1XS2 BKR R02A (1LP-14)	OEE-152-16 Rev 5	GENERAL-ELECTRIC THEF (15 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0015 LPI TO HPI/RBS PIGGYBACK TRAIN 1A			
1XL-09D/(1LP-15)/MS 208V MCC 1XL-09D STARTER (1LP-15)	OEE-152-03 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XL	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-09D/(1LP-15)/MCB 208V MCC 1XL BKR 09D (1LP-15)	OEE-152-03 Rev 3	GENERAL-ELECTRIC TEF6 (15/35 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0016 LPI TO HPI/RBS PIGGYBACK TRAIN 1B			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Low Pressure Injection**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1XN-09D/(1LP-16)/MS 208V MCC 1XN-09D STARTER (1LP-16) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-04 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
1XN-09D/(1LP-16)/MCB 208V MCC 1XN BKR 09D (LP-16) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-04 Rev 3	GENERAL-ELECTRIC TEF6 (15/35 A) 1XN	NV AB 771
1LPVA0017 LPI TRAIN 1A INJECTION ISOLATION			
1CR-53(1LP-17) 1LP-17 ESFAS INTERFACE RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-152-09 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
1RX-46(1LP-17) 1LP-17 CONTROL RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-152-09 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
RO(1LP-17)(LP-V4A)(1ES-3) RO RLY (1LP-17) <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-152-09 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
1XS1-F04E/(1LP-17)/MS 600V MCC 1XS1-F04E STARTER (1LP-17) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-152-09 Rev 12	CLARK BUL 6030 CY-2 (B2A) 1XS1	EVAL (MCC QUAL) AB 796
1XS1-F04E/(1LP-17)/MCB 600V MCC 1XS1 BKR F04E (1LP-17) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-152-09 Rev 12	GENERAL-ELECTRIC THED (50 A) 1XS1	NV AB 796
1LPVA0018 LPI TRAIN 1B INJECTION ISOLATION			
1CR-34(1LP-18) 1LP-18 ESFAS INTERFACE RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-152-10 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
1RX-33(1LP-18) 1LP-18 CONTROL RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-152-10 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RO(1LP-18)(LP-V4B)(1ES-4) RO RLY (1LP-18)	OEE-152-10 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS2-F04E/(1LP-18)/MS 600V MCC 1XS2-F04E STARTER (1LP-18)	OEE-152-10 Rev 12	CLARK BUL 6030 CY-2 (B2A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-F04E/(1LP-18)/MCB 600V MCC 1XS2 BKR F04E (1LP-18)	OEE-152-10 Rev 12	GENERAL-ELECTRIC THED (50 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0019 RB EM SUMP SUCTION			
1XS3-05D/(1LP-19)/MS 208V MCC 1XS3-05D STARTER (1LP-19)	OEE-152-01 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XS3	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS3-05D/(1LP-19)/MCB 208V MCC 1XS3 BKR 05D (1LP-19)	OEE-152-01 Rev 3	GENERAL-ELECTRIC THEF (15 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0020 RB EM SUMP SUCTION			
1XS2-R04C/(1LP-20)/MS 208V MCC 1XS2-R04C STARTER (1LP-20)	OEE-152-02 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R04C/(1LP-20)/MCB 208V MCC 1XS2 BKR R04C (1LP-20)	OEE-152-02 Rev 4	GENERAL-ELECTRIC THEF (15 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0021 BWST SUCTION ISOLATION			
1CR-65(1LP-21) 1LP-21 ESFAS INTERFACE RLY	OEE-152-11-01 Rev 0	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
1CR-66(1LP-21) 1LP-21 ESFAS INTERFACE RLY	OEE-152-11-01 Rev 0	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1RX-56(1LP-21) 1LP-21 CONTROL RLY	OEE-152-11 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
RO1(1LP-21)(1ES-3) RO1 RLY (1LP-21)	OEE-152-11-01 Rev 0	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
RO2(1LP-21)(1ES-7) RO2 RLY (1LP-21)	OEE-152-11-01 Rev 0	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1XS1-R03C(1LP-21)/MS 208V MCC 1XS1-R03C STARTER (1LP-21)	OEE-152-11 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R03C(1LP-21)/MCB 208V MCC 1XS1 BKR R03C (1LP-21)	OEE-152-11 Rev 9	GENERAL-ELECTRIC TED (50 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0022			
BWST SUCTION ISOLATION			
1CR-35(1LP-22) 1LP-22 ESFAS INTERFACE RLY	OEE-152-12-01 Rev 0	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1CR-67(1LP-22) 1LP-22 ESFAS INTERFACE RLY	OEE-152-12-01 Rev 0	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1RX-34(1LP-22) 1LP-22 CONTROL RLY	OEE-152-12 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
RO1(1LP-22)(1ES-4) RO1 RLY (1LP-22)	OEE-152-12-01 Rev 0	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			

Table 5-1-01

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
RO2(1LP-22)(1ES-8) RO2 RLY (1LP-22)	OEE-152-12-01 Rev 0	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
1XS2-R01C/(1LP-22)/MS 208V MCC 1XS2-R01C STARTER (1LP-22)	OEE-152-12 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R01C/(1LP-22)/MCB 208V MCC 1XS2 BKR R01C (1LP-22)	OEE-152-12 Rev 9	GENERAL-ELECTRIC TED (50 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0069			
LPI SWITCHOVER FLOW CONTROL			
1XN-09E/(1LP-69)/MS 208V MCC 1XN-09E STARTER (1LP-69)	OEE-152-20 Rev 5	CLARK BUL 6030 CY-1 (H1) 1XN	EVAL (MCC QUAL) AB 771
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XN-09E/(1LP-69)/MCB 208V MCC 1XN BKR 09E (1LP-69)	OEE-152-20 Rev 5	GENERAL-ELECTRIC TEF6 (65/165 A) 1XN	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0103			
BORON DILUTION ISOLATION			
1XSF-F06D(600V)/(1LP-103)/MS 600V MCC 1XSF-F06D STARTER (1LP-103)	OEE-152-23 Rev 4	GTE-SYLVANIA/CLARK BUL 6240 1XSF(600V)	EVAL (SSF QUAL) SSF 817
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-F06D(600V)/(1LP-103)/MCB 600V MCC 1XSF BKR F06D (1LP-103)	OEE-152-23 Rev 4	GENERAL-ELECTRIC THED (20 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0104			
BORON DILUTION ISOLATION			
1XS2-F03D/(1LP-104)/MS 600V MCC 1XS2-F03D STARTER (1LP-104)	OEE-152-24 Rev 5	CLARK BUL 6030 CY-1 (B1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

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FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Injection

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XS2-F03D/(1LP-104)/MCB 600V MCC 1XS2 BKR F03D (1LP-104)	OEE-152-24 Rev 5	GENERAL-ELECTRIC THEF (20A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0105 BORON DILUTION ISOLATION			
1XS1-F05D/(1LP-105)/MS 600V MCC 1XS1-F05D STARTER (1LP-105)	OEE-152-25 Rev 4	GTE-SYLVANIA/CLARK BUL 6030 CY-1 (B1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-F05D/(1LP-105)/MCB 600V MCC 1XS1 BKR F05D (1LP-105)	OEE-152-25 Rev 4	GENERAL-ELECTRIC THEF (20 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPVA0126 LPI POST ACCIDENT SAMPLE ISOL			
K5/U1 LP-126 CONTROL RLY	OEE-162-02 Rev 2	POTTER-BRUMFIELD KRP11AG 1PASCP	GERS-RLY-ARS.4 AB 771
<i>GERS - Seismically Adequate Per GERS.</i>			
1L2-39/MCB(1LP-126) 120V PPB 1L2 BKR 39 (1LP-126)	OEE-162-02 Rev 2	GENERAL-ELECTRIC TQL (20 A) 1L2	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Alarms

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
ISA9 ANNUNCIATOR ISA9	OEE-118-19 Rev 15	LUNDELL 4000 1VB3	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
ISA9-09 ANNUNCIATOR ISA9 WINDOW 09 (LPSW HDR PRESS ALARM)	OEE-118-19 Rev 15	LUNDELL 4000 1VB3	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSPS0095 LPSW HEADER PRESSURE	OEE-028-03 Rev 5	CUSTOM COMPONENTS 604-GX-11 1LPSPS0095	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1LPSPS0096 LPSW HEADER PRESSURE	OEE-028-03 Rev 5	CUSTOM COMPONENTS 604-GX-11 1LPSPS0096	CA TB 775'+0"
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
PS95X LPS WATER PUMP DISCHARGE HDR A AUX RLY	OEE-028-03 Rev 5	CUTLER-HAMMER D23MR40A 1MTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
PS96X LPS WATER PUMP DISCHARGE HDR B AUX RLY	OEE-028-03 Rev 5	CUTLER-HAMMER D23MR40A 1MTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1KE-08/MCB 120V PPB 1KE BKR 08 (LPSW HDR PRESS ALARMS)	OEE-028-03 Rev 5	GENERAL-ELECTRIC TQL (30 A) 1KE	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPSPU0001 LPSW PUMP A			
1TC-12 4KV SWGR 1TC BKR 12 (LPSWP A)	OEE-117-50 Rev 9	ITE 5HK-350 (1200 A) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-62(1LPSWPA)(LPSW-P1A)(1ES-3) LPSWP A ESFAS INTERFACE RLY	OEE-117-50 Rev 9	CUTLER-HAMMER D23MRD30A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
2CR-01(LPSWPA)(LPSW-P1A)(2ES-3) LPSWP A ESFAS INTERFACE RLY	OEE-117-50 Rev 9	CUTLER-HAMMER D23MRD30A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
2CR-02(LPSWPA)(LPSW-P1A)(2ES-4) LPSWP A ESFAS INTERFACE RLY	OEE-117-50 Rev 9	CUTLER-HAMMER D23MRD30A1 1TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TC-12) LPSW PUMP A OC RLY (X PHASE)	OEE-117-50 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TC-12) LPSW PUMP A OC RLY (Z PHASE)	OEE-117-50 Rev 9	WESTINGHOUSE CO-5 (1875241) 1TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TC-12) LPSW PUMP A GROUND OC RLY	OEE-117-50 Rev 9	ITE GR-5 (202D6141) 1TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RO(LPSWPA)(LPSW-P1A)(1ES-3) RO RLY (LPSWP A)	OEE-117-50 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
RO(LPSWPA)(LPSW-P1A)(2ES-3) RO RLY (LPSWP A)	OEE-117-50 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
RO(LPSWPA)(LPSW-P1A)(2ES-4) RO RLY (LPSWP A)	OEE-117-50 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPSPU0002			
LPSW PUMP B			
1TD-15 4KV SWGR 1TD BKR 15 (LPSW B)	OEE-117-83 Rev 7	ITE 5HK-350 (1200 A) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
2TD-12 4KV SWGR 2TD BKR 12 (LPSWP B)	OEE-217-37 Rev 6	ITE 5HK-350 (1200 A) 2TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-36(LPSWPB)(LPSW-P1B)(1ES-4) LPSWP B ESFAS INTERFACE RLY	OEE-117-83-A Rev 8	CUTLER-HAMMER D23MRD30A1 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
2CR-03(LPSWPB)(LPSW-P1B)(2ES-4) LPSWP B ESFAS INTERFACE RLY	OEE-117-83-A Rev 8	CUTLER-HAMMER D23MRD30A1 1TD	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(1TD-15) LPSW PUMP B OC RLY (X PHASE)	OEE-117-83 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51X(2TD-12) LPSW PUMP B OC RLY (X PHASE)	OEE-217-37 Rev 6	WESTINGHOUSE CO-5 (1875241) 2TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(1TD-15) LPSW PUMP B OC RLY (Z PHASE)	OEE-117-83 Rev 7	WESTINGHOUSE CO-5 (1875241) 1TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(2TD-12) LPSW PUMP B OC RLY (Z PHASE)	OEE-217-37 Rev 6	WESTINGHOUSE CO-5 (1875241) 2TD	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(1TD-15) LPSW PUMP B GROUND OC RLY	OEE-117-83 Rev 7	ITE GR-5 (202D6141) 1TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
50G(2TD-12) LPSW PUMP B GROUND OC RLY	OEE-217-37 Rev 6	ITE GR-5 (202D6141) 2TD	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RO(LPSWPB)(LPSW-P1B)(1ES-4) RO RLY (LPSWP B)	OEE-117-83-A Rev 8	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
RO(LPSWPB)(LPSW-P1B)(2ES-4) RO RLY (LPSWP B)	OEE-117-83-A Rev 8	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1LPSPU0003 LPSW PUMP C			
2TC-11 4KV SWGR 2TC BKR 11 (LPSWP C)	OEE-217-22 Rev 5	ITE 5HK-350 (1200 A) 2TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1CR-77(LPSWPC)(LPSW-P1C)(1ES-3) LPSWP C ESFAS INTERFACE RLY	OEE-217-22 Rev 5	CUTLER-HAMMER D23MRD30A1 2TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
1CR-78(LPSWPC)(LPSW-P1C)(1ES-4) LPSWP C ESFAS INTERFACE RLY	OEE-217-22 Rev 5	CUTLER-HAMMER D23MRD30A1 2TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
2CR-04(2LPSWPC) LPSWP C ESFAS INTERFACE RLY	OEE-217-22 Rev 5	CUTLER-HAMMER D23MRD30A1 2TC	CA TB 796
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			
50-51X(2TC-11) LPSW PUMP C OC RLY (X PHASE)	OEE-217-22 Rev 5	WESTINGHOUSE CO-5 (1875241) 2TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50-51Z(2TC-11) LPSW PUMP C OC RLY (Z PHASE)	OEE-217-22 Rev 5	WESTINGHOUSE CO-5 (1875241) 2TC	EVAL (GIP-2 SECTION 6.4.2) TB 796
<i>EVAL - Seismically Adequate Per Switchgear Function.</i>			
50G(2TC-11) LPSW PUMP C GROUND OC RLY	OEE-217-22 Rev 5	ITE GR-5 (202D6141) 2TC	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
RO(LPSWPC)(LPSW-P1C)(1ES-3) RO RLY (LPSWP-C)	OEE-217-22 Rev 5	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Pumps

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

RO(LPSWPC)(LPSW-P1C)(1ES-4)	OEE-217-22 Rev 5	BAILEY CONTROLS	CA
RO RLY (LPSWP-C)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).

RO(LPSWPC)(LPSW-P1C)(2ES-3)	OEE-217-22 Rev 5	BAILEY CONTROLS	CA
RO RLY (LPSWP-C)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Start Pump Motor (Desired Position).

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Low Pressure Service Water**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
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1LPSVA0001

LPSW PUMP A SUCTION ISOL VALVE

1XGA-F08C/(1LPSW-1)/MS 208V MCC 1XGA-F08C STARTER (1LPSW-1)	OEE-138-03 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XGA	EVAL (MCC QUAL) TB 796
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EVAL - Seismically Adequate Per Test Report.

1XGA-F08C/(1LPSW-1)/MCB 208V MCC 1XGA BKR F08C (1LPSW-1)	OEE-138-03 Rev 4	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGA	NV TB 796
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*NV - Not Vulnerable To Contact Chatter.***1LPSVA0002**

LPSW PUMP B SUCTION ISOL VALVE

1XGA-F08A/(1LPSW-2)/MS 208V MCC 1XGA-F08A STARTER (1LPSW-2)	OEE-138-01 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XGA	EVAL (MCC QUAL) TB 796
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EVAL - Seismically Adequate Per Test Report.

1XGA-F08A/(1LPSW-2)/MCB 208V MCC 1XGA BKR F08A (1LPSW-2)	OEE-138-01 Rev 4	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGA	NV TB 796
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*NV - Not Vulnerable To Contact Chatter.***1LPSVA0003**

LPSW PUMP C SUCTION ISOL VALVE

1XGA-F08B/(1LPSW-3)/MS 208V MCC 1XGA-F08B STARTER (1LPSW-3)	OEE-138-02 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XGA	EVAL (MCC QUAL) TB 796
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EVAL - Seismically Adequate Per Test Report.

1XGA-F08B/(1LPSW-3)/MCB 208V MCC 1XGA BKR F08B (1LPSW-3)	OEE-138-02 Rev 4	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGA	NV TB 796
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*NV - Not Vulnerable To Contact Chatter.***1LPSVA0004**

LPI COOLER 1A ISOLATION VALVE

1CR-17(1LPSW-4)(LPSW-V1A)(1ES-3) 1LPSW-4 ESFAS INTERFACE RLY	OEE-138-04 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
RO(1LPSW-4)(LPSW-V1A)(1ES-3) RO RLY (1LPSW-4)	OEE-138-04 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS1-R03D/(1LPSW-4)/MS 208V MCC 1XS1-R03D STARTER (1LPSW-4)	OEE-138-04 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R03D/(1LPSW-4)/MCB 208V MCC 1XS1 BKR R03D (1LPSW-4)	OEE-138-04 Rev 9	GENERAL-ELECTRIC TED (20 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0005 LPI COOLER 1B ISOLATION VALVE			
1CR-18(1LPSW-5)(LPSW-V1B)(1ES-4) 1LPSW-5 ESFAS INTERFACE RLY	OEE-138-05 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1LPSW-5)(LPSW-V1B)(1ES-4) RO RLY (1LPSW-5)	OEE-138-05 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS2-R02C/(1LPSW-5)/MS 208V MCC 1XS2-R02C STARTER (1LPSW-5)	OEE-138-05 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS2-R02C/(1LPSW-5)/MCB 208V MCC 1XS2 BKR R02C (1LPSW-5)	OEE-138-05 Rev 9	GENERAL-ELECTRIC TED (20 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0016 RBCU 1A SUPPLY VALVE			
1XO-R01A/(1LPSW-16)/MS 208V MCC 1XO-R01A STARTER (1LPSW-16)	OEE-138-06 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XO	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XO-R01A/(1LPSW-16)/MCB 208V MCC 1XO BKR R01A (1LPSW-16)	OEE-138-06 Rev 4	GENERAL-ELECTRIC TEF6 (28/68 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPSVA0018 RBCU 1A RETURN VALVE			
1CR-19(1LPSW-18)(LPSW-V3A)(1ES-5) 1LPSW-18 ESFAS INTERFACE RLY	OEE-138-07 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1LPSW-18)(LPSW-V3A)(1ES-5) RO RLY (1LPSW-18)	OEE-138-07 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS1-R03E/(1LPSW-18)/MS 208V MCC 1XS1-R03E STARTER (1LPSW-18)	OEE-138-07 Rev 12	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R03E/(1LPSW-18)/MCB 208V MCC 1XS1 BKR R03E (1LPSW-18)	OEE-138-07 Rev 12	GENERAL-ELECTRIC THEF (15 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0019 RBCU 1B SUPPLY VALVE			
1XO-R01B/(1LPSW-19)/MS 208V MCC 1XO-R01B STARTER (1LPSW-19)	OEE-138-08 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XO	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XO-R01B/(1LPSW-19)/MCB 208V MCC 1XO BKR R01B (1LPSW-19)	OEE-138-08 Rev 4	GENERAL-ELECTRIC TEF6 (28/68 A) 1XO	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0021 RBCU 1B RETURN VALVE			
1CR-20(1LPSW-21)(LPSW-V3B)(1ES-5) 1LPSW-21 ESFAS INTERFACE RLY	OEE-138-09 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1CR-68(1LPSW-21)(LPSW-V3B)(1ES-6) 1LPSW-21 ESFAS INTERFACE RLY	OEE-138-09 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
RO(1LPSW-21)(LPSW-V3B)(IES-5) RO RLY (1LPSW-21)	OEE-138-09 Rev 11	BAILEY CONTROLS 6623990 IESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1LPSW-21)(LPSW-V3B)(IES-6) RO RLY (1LPSW-21)	OEE-138-09 Rev 11	BAILEY CONTROLS 6623990 IESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS3-05C/(1LPSW-21)/MS 208V MCC 1XS3-05C STARTER (1LPSW-21)	OEE-138-09 Rev 11	CLARK BUL 6030 CY-1 (H1A) 1XS3	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS3-05C/(1LPSW-21)/MCB 208V MCC 1XS3 BKR 05C (1LPSW-21)	OEE-138-09 Rev 11	GENERAL-ELECTRIC THEF (15A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0022 RBCU 1C SUPPLY VALVE			
1XP-R01A/(1LPSW-22)/MS 208V MCC 1XP-R01A STARTER (1LPSW-22)	OEE-138-10 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XP	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XP-R01A/(1LPSW-22)/MCB 208V MCC 1XP BKR R01A (1LPSW-22)	OEE-138-10 Rev 4	GENERAL-ELECTRIC TEF6 (28/68 A) 1XP	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0024 RBCU 1C RETURN VALVE			
1CR-21(1LPSW-24)(LPSW-V3C)(IES-6) 1LPSW-24 ESFAS INTERFACE RLY	OEE-138-11 Rev 13	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1LPSW-24)(LPSW-V3C)(IES-6) RO RLY (1LPSW-24)	OEE-138-11 Rev 13	BAILEY CONTROLS 6623990 IESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XS2-R02D/(1LPSW-24)/MS 208V MCC 1XS2-R02D STARTER (1LPSW-24)	OEE-138-11 Rev 13	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XS2-R02D/(1LPSW-24)/MCB 208V MCC 1XS2 BKR R02D (1LPSW-24)	OEE-138-11 Rev 13	GENERAL-ELECTRIC THEF (15 A) 1XS2	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0137 TDEFW ISOLATION VALVE			
1XC-R05D/(1LPSW-137)/MS 208V MCC 1XC-R05D STARTER (1LPSW-137)	OEE-138-33 Rev 7	CLARK BUL 6030 CY-1 (H1) 1XC	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XC-R05D/(1LPSW-137)/MCB 208V MCC 1XC BKR R05D (1LPSW-137)	OEE-138-33 Rev 7	GENERAL-ELECTRIC TEF6 (15/35 A) 1XC	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0139 Nonessential Header Isolation Valve			
1XS3-05AB/(1LPSW-139 REMOTE STARTER)/MS 1LPSW-139 REMOTE STARTER	OEE-138-31 Rev 5	JOSLYN CLARK X40TA31202-76 1RSC-1LPSW-139/ENCL	EVAL (DPC-1393.00-00-0032) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS3-05AB/(1LPSW-139)/MCB 208V MCC 1XS3 BKR 05AB (1LPSW-139)	OEE-138-31 Rev 5	GENERAL-ELECTRIC THEF (20 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0251 LPI COOLER 1A CONTROL VALVE			
1LPSEP0022 DECAY HEAT COOLER E/P CONVERTER (1LPSW-251)	OEE-138-39 Rev 1	FISHER 646 1LPSEP0022	NV TB 775'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSFT0124 LPI COOLER 1A FLOW XMTR (1LPSW-251)	OEE-138-39 Rev 1	ROSEMOUNT 1151DP4J22B2 1LPSFT0124	NV AB 771'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSS0040 LPI COOLER 1A FLOW (1LPSW-251)	OEE-138-39 Rev 1	MOORE PRODUCTS 352EA21NNF 1VB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KVIA-06/MCB 120V PPB 1KVIA BKR 06 (1LPSW-251) (1LPSSV1000)	OEE-138-50 Rev 0	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-11/MCB 120V PPB 1KVIB BKR 11 (LPSW DH COOLER 1A CONT 1LPSW-251)	OEE-138-45 Rev 1	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0252 LPI COOLER 1B CONTROL VALVE			
1LPSEP0023 DECAY HEAT COOLER E/P CONVERTER (1LPSW-252)	OEE-138-39 Rev 1	FISHER 646 1LPSEP0023	NV TB 775'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSFT0125 LPI COOLER 1B FLOW XMTR (1LPSW-252)	OEE-138-39 Rev 1	ROSEMOUNT 1151DP4J22B2 1LPSFT0125	NV AB 771'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSSS0041 LPI COOLER 1B FLOW (1LPSW-252)	OEE-138-39 Rev 1	MOORE PRODUCTS 352EA21NNF 1VB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-15/MCB 120V PPB 1KVIB BKR 15 (1LPSW-252) (1LPSSV1001)	OEE-138-52 Rev 0	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIC-10/MCB 120V PPB 1KVIC BKR 10 (1LPSW-252)	OEE-138-45 Rev 1	ITE QP1 (20 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1LPSVA0284 CONT VAC PRIMING ISOL VALVE			
1XB-03B/(1LPSW-284)/MS 600V MCC 1XB-03B STARTER (CONT VAC PRIM PUMP A & 1LPSW-284)	OEE-136-25 Rev 2	CLARK BUL 6013 CY-2 (A2) 1XB	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XB-03B/(1LPSW-284)/MCB 600V MCC 1XB BKR 03B (CONT VAC PRIM PUMP A & 1LPSW-284)	OEE-136-25 Rev 2	GENERAL-ELECTRIC THEF (156/360 A) 1XB	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1LPSVA0290			
CONT VAC PRIMING ISOL VALVE			
1XB-03C/(1LPSW-290)/MS 600V MCC 1XB-03C STARTER (CONT VAC PRIM PUMP B & 1LPSW-290) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-136-25 Rev 2	CLARK BUL 6013 CY-2 (A2) 1XB	EVAL (MCC QUAL) TB 775
1XB-03C/(1LPSW-290)/MCB 600V MCC 1XB BKR 03C (CONT VAC PRIM PUMP B & 1LPSW-290) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-136-25 Rev 2	GENERAL-ELECTRIC THEF (156/360 A) 1XB	NV TB 775
1LPSVA0565			
RB AUX COOLERS SUPPLY VALVE			
1CR-80(1LPSW-565)(1ES-5) 1LPSW-565 ESFAS INTERFACE RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-138-36 Rev 6	CUTLER-HAMMER D26MR40A 1ESTC3	CA AB 809
1CR-81(1LPSW-565)(1ES-6) 1LPSW-565 ESFAS INTERFACE RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-138-36 Rev 6	CUTLER-HAMMER D26MR40A 1ESTC3	CA AB 809
1RX-80(1LPSW-565) 1LPSW-565 CONTROL RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-138-36 Rev 6	CUTLER-HAMMER D26MR40A 1ESTC3	CA AB 809
RO(1LPSW-565)(1ES-5) RO RLY (1LPSW-565) <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-138-36 Rev 6	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
RO(1LPSW-565)(1ES-6) RO RLY (1LPSW-565) <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-138-36 Rev 6	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
1XS3-03CT/(RSC-1LPSW-565)/MS REMOTE STARTER (1LPSW-565) (FED FROM 600V MCC 1XS3-03CT) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-138-36 Rev 6	GTE-SYLVANIA BUL 6040 TM 1RSC-1LPSW-565/ENCL	EVAL (OSC-6642) AB 796
1XS3-03CT/(RSC-1LPSW-565)/MCB 600V MCC 1XS3 BKR 03CT (1LPSW-565) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-36 Rev 6	GENERAL-ELECTRIC THED (20 A) 1XS3	NV AB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Low Pressure Service Water

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1LPSVA0566**

RBCU 3B INLET VALVE

1CR-82(1LPSW-566)(1ES-5)	OEE-138-37 Rev 6	CUTLER-HAMMER	CA
1LPSW-566 ESFAS INTERFACE RLY		D26MR40A	AB
		1ESTC3	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1CR-83(1LPSW-566)(1ES-6)	OEE-138-37 Rev 6	CUTLER-HAMMER	CA
1LPSW-566 ESFAS INTERFACE RLY		D26MR40A	AB
		1ESTC3	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-81(1LPSW-566)	OEE-138-37 Rev 6	CUTLER-HAMMER	CA
1LPSW-566 CONTROL RLY		D26MR40A	AB
		1ESTC3	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1LPSW-566)(1ES-5)	OEE-138-37 Rev 6	BAILEY CONTROLS	CA
RO RLY (1LPSW-566)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1LPSW-566)(1ES-6)	OEE-138-37 Rev 6	BAILEY CONTROLS	CA
RO RLY (1LPSW-566)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XS3-03CB/(RSC-1LPSW-566)/MS	OEE-138-37 Rev 6	GTE-SYLVANIA	EVAL (OSC-6642)
REMOTE STARTER (1LPSW-566) (FED FROM 600V		BUL 6040 TM	AB
MCC 1S3-03CB)		1RSC-1LPSW-566/ENCL	796

EVAL - Seismically Adequate Per Test Report.

1XS3-03CB/(RSC-1LPSW-566)/MCB	OEE-138-37 Rev 6	GENERAL-ELECTRIC	NV
600V MCC 1XS3 BKR 03CB (1LPSW-566)		THED (20 A)	AB
		1XS3	796

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Power

SUB SYSTEM: Protective Relaying

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
62GXA/U1 TURBINE TRIP SIGNAL RLY	OEE-111-04 Rev 5	CUTLER-HAMMER D26MR804A 1EB4	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Isolate The Normal Power Path.</i>			
86GA/U1 U1 GEN BUS LOCKOUT RLY	OEE-111-01 Rev 17	GENERAL-ELECTRIC HEA61C241 1EB4	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Isolate The Normal Power Path.</i>			
86GB/U1 U1 GEN BUS LOCKOUT RLY	OEE-111-01 Rev 17	GENERAL-ELECTRIC HEA61C241 1EB4	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Isolate The Normal Power Path.</i>			
86H/1 U1 GEN BACKUP LOCKOUT RELAY	OEE-111-02 Rev 11	GENERAL-ELECTRIC HEA61B238 1EB4	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Isolate The Normal Power Path.</i>			
86HY/U1 U1 GEN BACKUP LOCKOUT RLY	OEE-111-02 Rev 11	GENERAL-ELECTRIC HEA61C245 1EB4	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Isolate The Normal Power Path.</i>			
1DIB-07/MCB 125V PPB 1DIB BKR 07 (UNIT 1 MAIN RELAYING)	OEE-111-01 Rev 17	ITE EH2 (20 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1MSP0059 SG 1A & 1B PRESSURE	OM 201-H-77 Rev DJ	DIXSON SG202AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPT0024P SG 1A PRESSURE	OM 201-H-77 Rev DJ	ROSEMOUNT 1151GP9E22T1122B 1MSPT0024P	NV RB 825'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPT0025P SG 1A PRESSURE	OM 201-H-77 Rev DJ	ROSEMOUNT 1151GP9E22T1122B 1MSPT0025P	NV RB 825'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPT0026P SG 1B PRESSURE	OM 201-H-77 Rev DJ	ROSEMOUNT 1151GP9E22T1122B 1MSPT0026P	NV RB 825'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPT0027P SG 1B PRESSURE	OM 201-H-77 Rev DJ	ROSEMOUNT 1151GP9E22T1122B 1MSPT0027P	NV RB 825'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SS6A-MS SG OUTLET PRESS LOOP A SELECTOR SWITCH	OM 201-H-85 Rev DG	GENERAL-ELECTRIC CR-104 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SS6A-PT1(2) SEL SG OUTLET PRESS LOOP A SIGNAL CONV	OM 201-H-77 Rev DJ	BAILEY CONTROLS 6617150-3 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SS6B-MS SG OUTLET PRESS LOOP A SELECTOR SWITCH	OM 201-H-85 Rev DG	GENERAL-ELECTRIC CR-104 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SS6B-PT1(2) SEL SG OUTLET PRESS LOOP B SIG CONV	OM 201-H-77 Rev DJ	BAILEY CONTROLS 6617150-3 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
183/SGP-A/U1 U1 SG OUTLET PRESS LOOP A CONTROL RLY	OM 201-H-85 Rev DG	POTTER-BRUMFIELD KRP14AN 1ICS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
183/SGP-B/U1 U1 SG OUTLET PRESS LOOP B CONTROL RLY	OM 201-H-85 Rev DG	POTTER-BRUMFIELD KRP14AN 1ICS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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IMSV A0017

TURBINE BYPASS ISOLATION

1XGB-R01A/(1MS-17)/MS 208V MCC 1XGB-R01A STARTER (1MS-17)	OEE-145-44 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
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EVAL - Seismically Adequate Per Test Report.

1XGB-R01A/(1MS-17)/MCB 208V MCC 1XGB BKR R01A (1MS-17)	OEE-145-44 Rev 3	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGB	NV TB 796
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*NV - Not Vulnerable To Contact Chatter.***IMSV A0019**

TURBINE BYPASS VALVE

1MSMT0006 MAIN STEAM E/P CONVERTER (MS-19)	OM 201-H-21 Rev DL	BAILEY CONTROLS RP12 1MC-20	NV TB 796
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NV - Not Vulnerable To Contact Chatter.

1MSPS0086 MAIN STEAM PRESS SWITCH (1MS-19)	OEE-145-56 Rev 15	ATWOOD & MOR CC604GX11 1MSPS0086	CA TB 796'+6"
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1IC12A-MS(IC18.11)(MS-19&MS-22) SELECTOR STATION TURBINE BY-PASS A VALVES (MS-19 & MS-22)	OM 201-H-55 Rev DJ	BAILEY CONTROLS RU2000C-J 1ICS	CA AB 822
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1IC18.11A(MS-19&MS-22) ANALOG MEMORY STATION TURBINE BY-PASS A VALVES (MS-19 & MS-22)	OM 201-H-55 Rev DJ	SEGA S-6135 1ICS	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

1SS15A-MC(MS-19&MS-22) SELECTOR STATION TURBINE BY-PASS A VALVES (MS-19 & MS-22)	OM 201-H-21 Rev DL	BAILEY CONTROLS RU6000C 1ASP	CA TB 822
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

83TBVA/U1(MS-19&MS-22) TRANSFER POWER TURBINE BY-PASS A VALVES (MS-19 & MS-22) RELAY	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN 1ICS	CA AB 822
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

83XTBVA/U1(MS-19&MS-22) TRANSFER POWER TURBINE BY-PASS A VALVES (MS-19 & MS-22) AUX RELAY	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN 1ICS	CA AB 822
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
86-1/DSC/U1(MS-19,-22,-28,&-31) SIMULATOR PLUG CONNECTION REMOVED	OM 201-H-101 Rev DH	POTTER-BRUMFIELD KRPA14AN IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
86CVL/U1(MS-19&MS-22) LOSS OF CONDENSER VACUUM RELAY (MS-19 & MS-22)	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1KI-01/(MS-19)/MCB 120V PPB 1KI BKR 01 (MS-19)	OEE-145-56 Rev 15	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0022 TURBINE BYPASS VALVE			
1MSMT0007 MAIN STEAM E/P CONVERTER (MS-22)	OM 201-H-21 Rev DL	BAILEY CONTROLS RP1211C E/P 1MC-20	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPS0087 MAIN STEAM PRESS SWITCH (1MS-22)	OEE-145-56 Rev 15	ATWOOD & MOR CC604GX11 1MSPS0087	CA TB 796'+6"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1KI-01/(MS-22)/MCB 120V PPB 1KI BKR 01 (MS-22)	OEE-145-56 Rev 15	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0024 AS ISOLATION			
1XGB-R01C/(1MS-24)/MS 208V MCC 1XGB-R01C STARTER (1MS-24)	OEE-145-46 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XGB-R01C/(1MS-24)/MCB 208V MCC 1XGB BKR R01C (1MS-24)	OEE-145-46 Rev 2	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0026 TURBINE BYPASS ISOLATION			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XGB-R01B/(1MS-26)/MS 208V MCC 1XGB-R01B STARTER (1MS-26)	OEE-145-44 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XGB-R01B/(1MS-26)/MCB 208V MCC 1XGB BKR R01B (1MS-26)	OEE-145-44 Rev 3	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IMSV A0028 TURBINE BYPASS VALVE			
1MSMT0013 MAIN STEAM E/P CONVERTER (MS-28)	OM 201-H-21 Rev DL	BAILEY CONTROLS RP12 1MC-20	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPS0088 MAIN STEAM PRESS SWITCH (1MS-28)	OEE-145-56 Rev 15	ATWOOD & MOR CC604GX11 1MSPS0088	CA TB 796'+6"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1IC12B-MS(1C18.13)(MS-28&MS-31) SELECTOR STATION TURBINE BY-PASS B VALVES (MS-28 & MS-31)	OM 201-H-55 Rev DJ	BAILEY CONTROLS RU2000C-J 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1IC18.13A(MS-28&MS-31) ANALOG MEMORY STATION TURBINE BY-PASS B VALVES (MS-28 & MS-31)	OM 201-H-55 Rev DJ	SEGA S-6135 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SS15B-MC(MS-28&MS-31) SELECTOR STATION TURBINE BY-PASS B VALVES (MS-28 & MS-31)	OM 201-H-21 Rev DL	BAILEY CONTROLS RU6000C 1ASP	CA TB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
83TBVB/U1(MS-28&MS-31) TRANSFER POWER TURBINE BY-PASS B VALVES (MS-28 & MS-31) RELAY	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
83XTBVB/U1(MS-28&MS-31) TRANSFER POWER TURBINE BY-PASS B VALVES (MS-28 & MS-31) AUX RELAY	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
86-1CVL/U1(MS-28&MS-31) LOSS OF CONDENSER VACUUM RELAY (MS-28 & MS-31)	OM 201-H-56 Rev DM	POTTER-BRUMFIELD KRPA14AN 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KI-01/(MS-28)/MCB 120V PPB 1KI BKR 01 (MS-28)	OEE-145-56 Rev 15	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IMSV A0031 TURBINE BYPASS VALVE			
1MSMT0014 MAIN STEAM E/P CONVERTER (MS-31)	OM 201-H-21 Rev DL	BAILEY CONTROLS RP12 1MC-20	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSPS0089 MAIN STEAM PRESS SWITCH (1MS-31)	OEE-145-56 Rev 15	ATWOOD & MOR CC604GX11 1MSPS0089	CA TB 796'+6"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1KI-01/(MS-31)/MCB 120V PPB 1KI BKR 01 (MS-31)	OEE-145-56 Rev 15	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IMSV A0033 AS ISOLATION			
1XGB-R01D/(1MS-33)/MS 208V MCC 1XGB-R01D STARTER (1MS-33)	OEE-145-46 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XGB	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XGB-R01D/(1MS-33)/MCB 208V MCC 1XGB BKR R01D (1MS-33)	OEE-145-46 Rev 2	GENERAL-ELECTRIC TEF6 (65/165 A) 1XGB	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IMSV A0035 FWPT ISOLATION			
1XA-R06A/(1MS-35)/MS 208V MCC 1XA-R06A STARTER (1MS-35)	OEE-145-42 Rev 4	CLARK BUL 6240 SIZE 1 1XA	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-R06A/(1MS-35)/MCB 208V MCC 1XA BKR R06A (1MS-35)	OEE-145-42 Rev 4	GENERAL-ELECTRIC TEC (42/198 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1MSVA0036 FWPT ISOLATION			
1XA-R06B/(1MS-36)/MS 208V MCC 1XA-R06B STARTER (1MS-36)	OEE-145-42 Rev 4	CLARK BUL 6240 SIZE 1 1XA	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-R06B/(1MS-36)/MCB 208V MCC 1XA BKR R06B (1MS-36)	OEE-145-42 Rev 4	GENERAL-ELECTRIC TEC (42/198 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0047 MS TO CSAE			
1XC-R04F/(1MS-47)/MS 208V MCC 1XC-R04F STARTER (1MS-47)	OEE-145-50 Rev 2	CLARK BUL 6030 CY-1 (H1) 1XC	EVAL (MCC QUAL) TB 775
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XC-R04F/(1MS-47)/MCB 208V MCC 1XC BKR R04F (1MS-47)	OEE-145-50 Rev 2	GENERAL-ELECTRIC TEF6 (15/35 A) 1XC	NV TB 775
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0076 MS RH ISOLATION			
1XA-R06C/(1MS-76)/MS 208V MCC 1XA-R06C STARTER (1MS-76)	OEE-145-47 Rev 5	CLARK BUL 6240 SIZE 1 1XA	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-R06C/(1MS-76)/MCB 208V MCC 1XA BKR R06C (1MS-76)	OEE-145-47 Rev 5	GENERAL-ELECTRIC TEC (42/198 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0077 MS TO 2ND STAGE RHTR ISOL			
1HDPS0377 1ST STAGE RH PRESS SWITCH	OEE-154-05 Rev 9	ASHCROFT B424VXNF06-30INC 1HDPS0377	CA TB 822'-0"
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1MSPS0276 2ND STAGE RH STEAM PRESS SWITCH (1MS-77)	OEE-154-05 Rev 9	UNITED ELECTRIC VE-J6-148 1MC-F15	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1MSPS0293 2ND STAGE RH STEAM PRESS SWITCH (1MS-77)	OEE-154-05 Rev 9	UNITED ELECTRIC VE-J6-148 1MC-F15	CA TB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1PS276X 2ND STAGE RH STEAM PRESS AUX RLY	OEE-154-05 Rev 9	STRUTHERS-DUNN 219ABAP 1HBP	CA TB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1PS293X 2ND STAGE RH STEAM PRESS AUX RLY	OEE-154-05 Rev 9	STRUTHERS-DUNN 219ABAP 1HBP	CA TB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1PS377X2 1ST STAGE RH PRESS AUX RLY	OEE-154-05 Rev 9	CUTLER-HAMMER D23MR44A 1HBP	CA TB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XA-A-F02A/(1MS-77)/MS 208V MCC 1XA-A-F02A STARTER (1MS-77)	OEE-154-05 Rev 9	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-F02A/(1MS-77)/MCB 208V MCC 1XA-A BKR F02A (1MS-77)	OEE-154-05 Rev 9	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0078			
MS TO 2ND STAGE RHTR ISOL			
1XA-A-F02B/(1MS-78)/MS 208V MCC 1XA-A-F02B STARTER (1MS-78)	OEE-154-21 Rev 6	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-F02B/(1MS-78)/MCB 208V MCC 1XA-A BKR F02B (1MS-78)	OEE-154-21 Rev 6	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0079			
MS RH ISOLATION			

Table 5-1-O1
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Main Steam**

SUB SYSTEM: **Valves**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1XA-R06D/(1MS-79)/MS 208V MCC 1XA-R06D STARTER (1MS-79)	OEE-145-47 Rev 5	CLARK BUL 6240 SIZE 1 1XA	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-R06D/(1MS-79)/MCB 208V MCC 1XA BKR R06D (1MS-79)	OEE-145-47 Rev 5	GENERAL-ELECTRIC TEC (42/198 A) 1XA	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0080 MS TO 2ND STAGE RHTR ISOL			
1XA-A-F02D/(1MS-80)/MS 208V MCC 1XA-A-F02D STARTER (1MS-80)	OEE-154-13 Rev 7	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-F02D/(1MS-80)/MCB 208V MCC 1XA-A BKR F02D (1MS-80)	OEE-154-13 Rev 7	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0081 MS TO 2ND STAGE RHTR ISOL			
1XA-A-F02C/(1MS-81)/MS 208V MCC 1XA-A-F02C STARTER (1MS-81)	OEE-154-29 Rev 6	CLARK BUL 6030 CY-1 (H1) 1XA-A	EVAL (MCC QUAL) TB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XA-A-F02C/(1MS-81)/MCB 208V MCC 1XA-A BKR F02C (1MS-81)	OEE-154-29 Rev 6	GENERAL-ELECTRIC TEF6 (65/165 A) 1XA-A	NV TB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0102 TURBINE STOP VALVE			
1KX-01/MCB(1MS-102) 120V PPB 1KX BKR 01 (1MS-102)	OEE-121-23 Rev 6	ITE CC (20 A) 1KX	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MSVA0103 TURBINE STOP VALVE			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Main Steam**SUB SYSTEM: **Valves**Component ID
Name

Ref Dwg/Revision

Manufacturer
Modelno
LocationS47*
Building
Floor Elev*Chatter Evaluation*

1KX-01/MCB(1MS-103)

OEE-121-22 Rev 8

ITE

NV

120V PPB 1KX BKR 01 (1MS-103)

CC (20 A)

AB

1KX

809

*NV - Not Vulnerable To Contact Chatter.***1MSVA0104**

TURBINE STOP VALVE

1KX-01/MCB(1MS-104)

OEE-121-21 Rev 5

ITE

NV

120V PPB 1KX BKR 01 (1MS-104)

CC (20 A)

AB

1KX

809

*NV - Not Vulnerable To Contact Chatter.***1MSVA0105**

TURBINE STOP VALVE

1KX-01/MCB(1MS-105)

OEE-121-20 Rev 5

ITE

NV

120V PPB 1KX BKR 01 (1MS-105)

CC (20 A)

AB

1KX

809

*NV - Not Vulnerable To Contact Chatter.***1MSVA0106**

MAIN STEAM CONTROL VALVE

1KX-01/MCB(1MS-106)

OEE-121-25 Rev 2

ITE

NV

120V PPB 1KX BKR 01 (1MS-106)

CC (20 A)

AB

1KX

809

*NV - Not Vulnerable To Contact Chatter.***1MSVA0107**

MAIN STEAM CONTROL VALVE

1KX-01/MCB(1MS-107)

OEE-121-24 Rev 4

ITE

NV

120V PPB 1KX BKR 01 (1MS-107)

CC (20 A)

AB

1KX

809

*NV - Not Vulnerable To Contact Chatter.***1MSVA0108**

MAIN STEAM CONTROL VALVE

1KX-01/MCB(1MS-108)

OEE-121-27 Rev 5

ITE

NV

120V PPB 1KX BKR 01 (1MS-108)

CC (20 A)

AB

1KX

809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Steam

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
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IMSV A0109

MAIN STEAM CONTROL VALVE

1KX-01/MCB(1MS-109)	OEE-121-26 Rev 5	ITE	NV
120V PPB 1KX BKR 01 (1MS-109)		CC (20 A) 1KX	AB 809

*NV - Not Vulnerable To Contact Chatter.***IMSV A0126**

MS TO AS CONTROL VALVE

1ASEP1001	OEE-145-85 Rev A	FISHER CONTROLS	NV
VALVE POSITIONER FOR MS-126		546 1MSVA0126	TB 807

NV - Not Vulnerable To Contact Chatter.

1ASPT0117P	OEE-145-85 Rev A	ROSEMOUNT	NV
AUX STEAM PRESSURE TRANSMITTER (MS-126 & MS-129)		1151GP8E22B2 1ASPT0117P	TB 796'+6"

NV - Not Vulnerable To Contact Chatter.

1ASSS0017	OEE-145-84 Rev A	MOORE PRODUCTS	NV
VALVE CONTROLLER FOR MS-126 AND MS-129		352EA21VNF 1AB1	AB 822

NV - Not Vulnerable To Contact Chatter.

1KVID-10/MCB	OEE-145-84 Rev A	ITE	NV
120V PPB 1KVID BKR 10 (MS-126 & MS-129)		QP1 (20 A) 1KVID	AB 809

*NV - Not Vulnerable To Contact Chatter.***IMSV A0129**

MS TO AS CONTROL VALVE

1ASEP1000	OEE-145-85 Rev A	FISHER CONTROLS	NV
VALVE POSITIONER FOR MS-129		546 1MSVA0129	TB 808

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S4T* Building Floor Elev
BOT/U1 BACKUP OVERSPEED TRIP SWITCH (VCS840)	OEE-121-01 Rev 4	GENERAL-ELECTRIC 994D129G2 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
VCS815/U1 VOLTAGE COMPARATOR SPEED SWITCH	OEE-121-01 Rev 4	GENERAL-ELECTRIC 994D129G2 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KM405/U1 SPEED FEEDBACK TRIP AUX RELAY	OEE-121-01 Rev 4	NOT FOUND NOT FOUND 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KM406/U1 SPEED FEEDBACK TRIP AUX RELAY	OEE-121-01 Rev 4	NOT FOUND NOT FOUND 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT401/U1 BACKUP OVERSPEED TRIP TIME DELAY TEST RELAY	OEE-121-01 Rev 4	CLARE HGSM5001 1VB1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT702/U1 RELAY FOR LOSS OF 125V DC TO TURBINE TRIP CIRCUITS	OEE-121-01 Rev 4	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT215/U1 VACUUM TRIP RESET RELAY	OEE-121-02 Rev 4	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
RTC-B/U1 REACTOR TRIP CONFIRMED AUX RELAY	OEE-121-02 Rev 4	CUTLER-HAMMER D23MRD074T1-24V 1CRDACBKRCAB	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			
XKT-801/U1 EHC SYSTEM MASTER TRIP RELAY	OEE-121-03 Rev 4	GENERAL-ELECTRIC CR120 1EHC1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Fail Trip The Turbine Required For 30 Second Main Steam Valves.</i>			
XKT-802/U1 EHC SYSTEM MECHANICAL TRIP RELAY	OEE-121-03 Rev 4	GENERAL-ELECTRIC CR120 1EHC1	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Fail Trip The Turbine Required For 30 Second Main Steam Valves.</i>			
XKT-804/U1 EHC SYSTEM TRIP SEAL-IN RELAY	OEE-121-03 Rev 4	GENERAL-ELECTRIC CR120 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1PS157AB/PS101 LOW HYDRAULIC PRESSURE SWITCH	OEE-121-05 Rev 10	BARKSDALE B2T-A32SS 1EHCPP	CA TB 775'+0"
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1PS433/U1 HYDRAULIC PRESSURE SWITCH	OEE-121-05 Rev 10	CUSTOM CONTROL 646GZE M7-7011 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1PS434/U1 HYDRAULIC PRESSURE SWITCH	OEE-121-05 Rev 10	CUSTOM CONTROL 646GZE M7-7011 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1TOPS0183(PS16-A) FWPT 1A BEARING OIL PRESS LOW	OEE-146-02 Rev 6	SQUARE D 9013-GHG-2 1A TBOX EH	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1TOPS0199(PS16-A) FWPT 1B BEARING OIL PRESS LOW	OEE-146-03 Rev 5	SQUARE D 9013-GHG-2 1A TBOX EH	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
62-C1/U1 LOSS OF STATOR COOLANT SWITCH	OEE-121-05 Rev 10	AGASTAT 2412PF 1SCWP	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
62-C3/U1 LOSS OF STATOR COOLANT SWITCH	OEE-121-05 Rev 10	AGASTAT 2412PE 1SCWP	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS104A/U1(1PS160-61-A) VACUUM SWITCH FOR CONDENSER "A"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000A	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS104B/U1(1PS160-61-B) VACUUM SWITCH FOR CONDENSER "A"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000A	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS105A/U1(1PS162-63-A) VACUUM SWITCH FOR CONDENSER "B"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000B	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS105B/U1(1PS162-63-B) VACUUM SWITCH FOR CONDENSER "B"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000B	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
PS106A/U1(1PS164-65-A) VACUUM SWITCH FOR CONDENSER "C"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000C	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS106B/U1(1PS164-65-B) VACUUM SWITCH FOR CONDENSER "C"	OEE-121-05 Rev 10	BARKSDALE D2H-M18 1CCD000C	CA TB 775
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
PS109/U1 SHAFT PUMP DISCHARGE PRESSURE SWITCH	OEE-121-05 Rev 10	PENN P72CA-8 TURBINE OIL TANK	CA TB
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1FDWLT008A LOOP 2A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	OM 201-H-79 Rev DJ	ROSEMOUNT 1151DP 1FDWLT008A	NV RB 777'+4"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT010A LOOP 2B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	OM 201-H-79 Rev DJ	ROSEMOUNT 1151DP 1FDWLT010A	NV RB 777'+4"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT051A LOOP 3A STEAM GENERATOR OPERATE LEVEL TRANSMITTER	OM 201-H-79 Rev DJ	ROSEMOUNT 1151DP 1FDWLT051A	NV RB 777'+4"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1FDWLT052A LOOP 3B STEAM GENERATOR OPERATE LEVEL TRANSMITTER	OM 201-H-79 Rev DJ	ROSEMOUNT 1151DP 1FDWLT052A	NV RB 777'+4"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1SGLCX OTSG HI-HI LEVEL AUX RELAY	OEE-121-05 Rev 10	STRUTHERS-DUNN 219BBXP 1EHTC1	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
2A/U1 LOOP 2A SIGNAL MONITOR CARD (SS11A-LS3)	OM 201-H-79 Rev DJ	SAIC RP 2049-2 IICS	CA AB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
2B/U1 LOOP 2B SIGNAL MONITOR CARD (SS11B-LS3)	OM 201-H-79 Rev DJ	SAIC RP 2049-2 IICS	CA AB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
3A/U1 LOOP 3A SIGNAL MONITOR CARD (SS11A-LS4)	OM 201-H-79 Rev DJ	SAIC RP 2049-2 IICS	CA AB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
3B/U1 LOOP 3B SIGNAL MONITOR CARD (SS11B-LS4)	OM 201-H-79 Rev DJ	SAIC RP 2049-2 IICS	CA AB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT107/U1 LOW HYDRAULIC PRESSURE RELAY	OEE-121-05 Rev 10	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT114/U1 SHAFT PUMP DISCHARGE LOW PRESSURE TRIP RELAY	OEE-121-05 Rev 10	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT201/U1 VACUUM TRIP RELAY	OEE-121-05 Rev 10	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT303/U1 LOSS OF STATOR COOLANT TRIP RELAY	OEE-121-05 Rev 10	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT805/U1 GEN LOCK-OUT/LOSS OF BOTH FWP/HI-HI OTSG LEVEL RELAY	OEE-121-05 Rev 10	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
RE7/U1 FWPT 1A TRIP AUX RELAY	OEE-146-02 Rev 6	STRUTHERS-DUNN 219DXBP 1VB3	CA AB 822
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
RE8/U1 FWPT 1B TRIP AUX RELAY	OEE-146-03 Rev 5	STRUTHERS-DUNN 219DXBP 1VB3	CA AB 822
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
UVRA/U1 RELAY FOR LOSS OF 125V DC TO TURBINE TRIP CIRCUITS	OEE-121-05 Rev 10	AGASTAT 7024 PB 1EHC1	CA AB 809
<i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
1DIA-07/MCB 125V PPB 1DIA BKR 07 (TURB CTRLS AUX TRIP CKT)	OEE-121-05 Rev 10	ITE EH2 (20 A) 1DIA/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PS155-1B/PS100-A PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	OEE-121-06 Rev 5	GENERAL-ELECTRIC CR-127 408AM 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1PS156-1B/PS100-B PRESSURE SWITCH (EMERGENCY TRIP SYSTEM)	OEE-121-06 Rev 5	GENERAL-ELECTRIC CR-127 408AM 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
EHT-2/U1 EXHAUST HOOD TEMPERATURE SWITCH	OEE-121-06 Rev 5	BURLING VD-2S 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
EHT-4/U1 EXHAUST HOOD TEMPERATURE SWITCH	OEE-121-06 Rev 5	BURLING VD-2S 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
EHT-6/U1 EXHAUST HOOD TEMPERATURE SWITCH	OEE-121-06 Rev 5	BURLING VD-2S 1TG	CA TB 822
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
MS-HLT-1/U1 MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	OEE-121-06 Rev 5	MAGNETROL 402 1TG	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
MS-HLT-2/U1 MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	OEE-121-06 Rev 5	MAGNETROL 402 1TG	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
MS-HLT-3/U1 MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	OEE-121-06 Rev 5	MAGNETROL 402 1TG	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
MS-HLT-4/U1 MOISTURE SEPARATOR DRAIN TANK LEVEL SWITCH	OEE-121-06 Rev 5	MAGNETROL 402 1TG	CA TB 796
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT106/U1 EMERGENCY TRIP SYSTEM RELAY	OEE-121-06 Rev 5	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT301/U1 EXHAUST HOOD TEMPERATURE TRIP RELAY	OEE-121-06 Rev 5	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			
KT601/U1 MOISTURE SEPARATOR HIGH LEVEL TRIP RELAY	OEE-121-06 Rev 5	CLARE HGSM5001 1EHC1	CA AB 809
<i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Controls

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
UVRB/U1 RELAY FOR LOSS OF 125V DC TO TURBINE TRIP CIRCUITS <i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-06 Rev 5	AGASTAT 7024 PB 1EHC1	CA AB 809
PS11/U1(1PS135) PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	GENERAL-ELECTRIC 127B5 1TG	CA TB 822
PS12/U1(1PS136) PRESSURE SWITCH FOR THRUST BEARING WEAR DETECTOR <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	GENERAL-ELECTRIC 127B5 1TG	CA TB 822
TWS11/U1 THRUST BEARING WEAR DETECTOR SWITCH TURBINE END <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	GENERAL-ELECTRIC 125C6475 1TG	CA TB 822
TWS12/U1 THRUST BEARING WEAR DETECTOR SWITCH GENERATOR END <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	GENERAL-ELECTRIC 125C6475 1TG	CA TB 822
K1/U1(TWE) THRUST BEARING WEAR DETECTOR TEST TIMER <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	AGASTAT 2422PC 1TWE	CA TB 822
PS11X/U1 THRUST BEARING WEAR DETECTOR RELAY <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	CUTLER-HAMMER D26MB 1EHC1	CA AB 809
PS12X/U1 THRUST BEARING WEAR DETECTOR RELAY <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	CUTLER-HAMMER D26MB 1EHC1	CA AB 809
TWS11X/U1 THRUST BEARING WEAR DETECTOR AUX RELAY <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	CUTLER-HAMMER TYPE M 1EHC1	CA AB 809
TWS12X/U1 THRUST BEARING WEAR DETECTOR AUX RELAY <i>CA - Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	CUTLER-HAMMER TYPE M 1EHC1	CA AB 809
UVRB/U1 RELAY FOR LOSS OF 125V DC TO TURBINE TRIP CIRCUITS <i>Rugged Relay Whose Contact Is Parallel With Contacts Normally Used To Trip The Turbine And Cannot Block Turbine Trip.</i>	OEE-121-07 Rev 3	AGASTAT 7024 PB 1EHC1	CA AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Main Turbine

SUB SYSTEM: Valves

Component ID
Name

Ref Dwg/Revision

Manufacturer
Modelno
LocationSAT*
Building
Floor Elev*Chatter Evaluation***1VVA0186**

COND VACUUM BREAKER

1XA-R03A/(1V-186)/MS
208V MCC 1XA-R03A STARTER (1V-186)

OEE-121-10 Rev 3

CLARK
BUL 6240 SIZE 1
1XAEVAL (MCC QUAL)
TB
796*EVAL - Seismically Adequate Per Test Report.*1XA-R03A/(1V-186)/MCB
208V MCC 1XA BKR R03A (1V-186)

OEE-121-10 Rev 3

GENERAL-ELECTRIC
TEC (18/90 A)
1XANV
TB
796*NV - Not Vulnerable To Contact Chatter.***1SSHVA0001**

STEAM SEAL HEADER ISOLATION

1XA-R02A/(1SSH-01)/MS
208V MCC 1XA-R02A STARTER (1SSH-01)

OEE-121-11 Rev 5

CLARK
BUL 6240 CY-1
1XAEVAL (MCC QUAL)
TB
796*EVAL - Seismically Adequate Per Test Report.*1XA-R02A/(1SSH-01)/MCB
208V MCC 1XA BKR R02A (1SSH-01)

OEE-121-11 Rev 5

GENERAL-ELECTRIC
TEC (42/198 A)
1XANV
TB
796*NV - Not Vulnerable To Contact Chatter.***1SSHVA0003**

STEAM SEAL HEADER ISOLATION

1XA-R02B/(1SSH-03)/MS
208V MCC 1XA-R02B STARTER (1SSH-03)

OEE-121-12 Rev 6

CLARK
BUL 6240 CY-1
1XAEVAL (MCC QUAL)
TB
796*EVAL - Seismically Adequate Per Test Report.*1XA-R02B/(1SSH-03)/MCB
208V MCC 1XA BKR R02B (1SSH-03)

OEE-121-12 Rev 6

GENERAL-ELECTRIC
TEC (42/198 A)
1XANV
TB
796*NV - Not Vulnerable To Contact Chatter.*

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Nuclear Instrumentation**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NI1-NI/U1 SOURCE RANGE CHANNEL NI-1 INDICATOR	OM 201-K Series Rev N/A	DIXSON SG202AXYX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-1/PREAMP/U1 NI PREAMPLIFIER NI-1	OM 201-K Series Rev N/A	GAMMA-METRICS 900218 1NI	NV AB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-1/SENS/U1 NI CHANNEL SENSOR NI-1	OM 201-K Series Rev N/A	GAMMA-METRICS 900217-101 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI1-IEA/U1 NI-1 ISOLATION EXPANSION ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900220-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI1-WRMA/U1 NI-1 WIDE RANGE MONITOR ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900219-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-16/MCB 120V PPB 1KVIA BKR 16 (NI-1 EXCORE PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI2-NI/U1 SOURCE RANGE CHANNEL NI-2 INDICATOR	OM 201-K Series Rev N/A	DIXSON SG202AXYX-4/20MADC 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-2/PREAMP/U1 NI PREAMPLIFIER NI-2	OM 201-K Series Rev N/A	GAMMA-METRICS 900218 1NI	NV AB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-2/SENS/U1 NI CHANNEL SENSOR NI-2	OM 201-K Series Rev N/A	GAMMA-METRICS 900217-101 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI2-IEA/U1 NI-2 ISOLATION EXPANSION ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900220-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI2-WRMA/U1 NI-2 WIDE RANGE MONITOR ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900219-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Nuclear Instrumentation

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KVIB-16/MCB 120V PPB 1KVIB BKR 16 (NI-3 EXCORE PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI3-NI/U1 SOURCE RANGE NI-3 INDICATOR	OM 201-K Series Rev N/A	DIXSON SG202AXYX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-3/PREAMP/U1 NI PREAMPLIFIER NI-3	OM 201-K Series Rev N/A	GAMMA-METRICS 900218 1NI	NV AB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-3/SENS/U1 NI CHANNEL SENSOR NI-3	OM 201-K Series Rev N/A	GAMMA-METRICS 900217-101 1NI	NV AB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI3-IEA/U1 NI-3 ISOLATION EXPANSION ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900220-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI3-WRMA/U1 NI-3 WIDE RANGE MONITOR ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900219-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIC-16/MCB 120V PPB 1KVIC BKR 16 (NI-2 EXCORE PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI4-NI/U1 SOURCE RANGE NI-4 INDICATOR	OM 201-K Series Rev N/A	DIXSON SG202AXYX-4/20MADC 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-4/PREAMP/U1 NI PREAMPLIFIER NI-4	OM 201-K Series Rev N/A	GAMMA-METRICS 900218 1NI	NV AB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-4/SENS/U1 NI CHANNEL SENSOR NI-4	OM 201-K Series Rev N/A	GAMMA-METRICS 900217-101 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI4-IEA/U1 NI-4 ISOLATION EXPANSION ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900220-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Nuclear Instrumentation**

SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NI4-WRMA/U1 NI-4 WIDE RANGE MONITOR ASSEMBLY	OM 201-K Series Rev N/A	GAMMA-METRICS 900219-101 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVID-16/MCB 120V PPB 1KVID BKR 16 (NI-4 EXCORE PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVID	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI5-NI/U1 NI-5 PWR RANGE INDICATOR	OM 201-K Series Rev N/A	DIXSON SH202AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-5/SENS/U1 NI CHANNEL SENSOR NI-5	OM 201-K Series Rev N/A	WESTINGHOUSE WL23636 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI5-LA/LOWER/U1 NI-5 LINEAR AMPLIFIER LOWER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI5-LA/UPPER/U1 NI-5 LINEAR AMPLIFIER UPPER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI5-PRTC/U1 NI-5 PWR RANGE TEST CIRCUIT	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625215 1RPS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
NI5-SA/U1 NI-5 SUMMING AMPLIFIER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625202 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI5-DETPS/U1 NI-5 DETECTOR PWR SUPP	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621600 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-01/MCB 120V PPB 1KVIA BKR 01 (NI/RPS CH A PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI6-NI/U1 NI-6 PWR RANGE INDICATOR	OM 201-K Series Rev N/A	DIXSON SH202AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Nuclear Instrumentation

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NI-6/SENS/U1 NI CHANNEL SENSOR NI-6	OM 201-K Series Rev N/A	WESTINGHOUSE WL23636 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI6-LA/LOWER/U1 NI-6 LINEAR AMPLIFIER LOWER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI6-LA/UPPER/U1 NI-6 LINEAR AMPLIFIER UPPER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI6-PRTC/U1 NI-6 PWR RANGE TEST CIRCUIT	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625215 1RPS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
NI6-SA/U1 NI-6 SUMMING AMPLIFIER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625202 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI6-DETPS/U1 NI-6 DETECTOR PWR SUPP	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621600 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-01/MCB 120V PPB 1KVIB BKR 01 (NI/RPS CH B PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI7-NI/U1 NI-7 PWR RANGE INDICATOR	OM 201-K Series Rev N/A	DIXSON SH202AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI-7/SENS/U1 NI CHANNEL SENSOR NI-7	OM 201-K Series Rev N/A	WESTINGHOUSE WL23636 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI7-LA/LOWER/U1 NI-7 LINEAR AMPLIFIER LOWER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI7-LA/UPPER/U1 NI-7 LINEAR AMPLIFIER UPPER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Nuclear Instrumentation

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
NI7-PRTC/U1 NI-7 PWR RANGE TEST CIRCUIT	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625215 1RPS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
NI7-SA/U1 NI-7 SUMMING AMPLIFIER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625202 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI7-DETPS/U1 NI-7 DETECTOR PWR SUPP	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621600 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIC-01/MCB 120V PPB 1KVIC BKR 01 (NI/RPS CH C PWR)	O-705 Rev 59	ITE QP1 (30 A) 1KVIC	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-NI/U1 NI-8 PWR RANGE INDICATOR	OM 201-K Series Rev N/A	DIXSON SH202AXTX 1UB2	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-SENS/U1 NI CHANNEL SENSOR NI-8	OM 201-K Series Rev N/A	WESTINGHOUSE WL23636 1NI	NV RB N/A
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-LA/LOWER/U1 NI-8 LINEAR AMPLIFIER LOWER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-LA/UPPER/U1 NI-8 LINEAR AMPLIFIER UPPER ION CHAMBER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621720 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-PRTC/U1 NI-8 PWR RANGE TEST CIRCUIT	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625215 1RPS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
NI8-SA/U1 NI-8 SUMMING AMPLIFIER	OM 201-K Series Rev N/A	BAILEY CONTROLS 6625202 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
NI8-DETPS/U1 NI-8 DETECTOR PWR SUPP	OM 201-K Series Rev N/A	BAILEY CONTROLS 6621600 1RPS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Nuclear Instrumentation**SUB SYSTEM: Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1KVID-01/MCB 120V PPB 1KVID BKR 01 (NI/RPS CH D PWR)	O-705 Rev 59	ITE QP1 (20 A) 1KVID	NV AB 809
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Operation Control Transfer To SSF**SUB SYSTEM: **Controls**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
HB SSF XFER RLY (1RC-4)	OEE-163-16 Rev 2	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
JA SSF XFER RLY (PZR HTRS)	OEE-163-16 Rev 2	CUTLER-HAMMER D26MR80A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
SA SSF XFER RLY (1HP-20)	OEE-163-16 Rev 2	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
TA SSF XFER RLY (1HP-3)	OEE-163-16 Rev 2	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
TB SSF XFER RLY (1HP-4)	OEE-163-16 Rev 2	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
VD SSF XFER RLY (1RC-5)	OEE-163-16-B Rev 0	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
VE SSF XFER RLY (1RC-6)	OEE-163-16-B Rev 0	CUTLER-HAMMER D26MR804A SSF/IC1	CA SSF 797
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
KSFC-03/MCB/U1 120V PPB KSFC BKR 03 (SSF XFER U1 CONT PWR)	OEE-163-16 Rev 2	GENERAL-ELECTRIC TED (20 A) KSFC	NV SSF 777
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Penetration Rm Ventilation

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1PRVA0007			
RB HYDROGEN PURGE INLET			
1CR-11(1PR-7)(PR-V7)(1ES-1) 1PR-7 ESFAS INTERFACE RLY	OEE-158-07 Rev 10	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-08(1PR-7)(PR-V7)(1ES-1) 1PR-7 CONTROL RLY	OEE-158-07 Rev 10	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-09(1PR-7)(PR-V7)(1ES-1) 1PR-7 CONTROL RLY	OEE-158-07 Rev 10	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
RO(1PR-7)(PR-V7)(1ES-1) RO RLY (1PR-7)	OEE-158-07 Rev 10	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1XS1-R05A/(1PR-7)/MS 208V MCC 1XS1-R05A STARTER (1PR-7)	OEE-158-07 Rev 10	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R05A/(1PR-7)/MCB 208V MCC 1XS1 BKR R05A (1PR-7)	OEE-158-07 Rev 10	GENERAL-ELECTRIC THEF (15 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PRVA0008			
RB HYDROGEN PURGE INLET			
1CR-12(1PR-8)(PR-V8)(1ES-2) 1PR-8 ESFAS INTERFACE RLY	OEE-158-08 Rev 10	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-10(1PR-8)(PR-V8)(1ES-2) 1PR-8 CONTROL RLY	OEE-158-08 Rev 10	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
RO(1PR-8)(PR-V8)(1ES-2) RO RLY (1PR-8)	OEE-158-08 Rev 10	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Penetration Rm Ventilation

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1DIB-25/(1PR-8)/MCB 125V PPB 1DIB BKR 25 (1PR-8)	OEE-158-09 Rev 9	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PRVA0009 RB HYDROGEN PURGE OUTLET			
1CR-13(1PR-9)(PR-V9)(1ES-1) 1PR-9 ESFAS INTERFACE RLY	OEE-158-10 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-11(1PR-9)(PR-V9)(1ES-1) 1PR-9 CONTROL RLY	OEE-158-10 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-12(1PR-9)(PR-V9)(1ES-1) 1PR-9 CONTROL RLY	OEE-158-10 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
RO(1PR-9)(PR-V9)(1ES-1) RO RLY (1PR-9)	OEE-158-10 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1XS1-R05B/(1PR-9)/MS 208V MCC 1XS1-R05B STARTER (1PR-9)	OEE-158-10 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS1-R05B/(1PR-9)/MCB 208V MCC 1XS1 BKR R05B (1PR-9)	OEE-158-10 Rev 9	GENERAL-ELECTRIC THEF (15 A) 1XS1	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PRVA0010 RB HYDROGEN PURGE OUTLET			
1CR-14(1PR-10)(PR-V10)(1ES-2) 1PR-10 ESFAS INTERFACE RLY	OEE-158-09 Rev 9	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			
1RX-13(1PR-10)(PR-V10)(1ES-2) 1PR-10 CONTROL RLY	OEE-158-09 Rev 9	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Preforming Its Function.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Penetration Rm Ventilation

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
RO(1PR-10)(PR-V10)(1ES-2) RO RLY (1PR-10)	OEE-158-09 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Cannot Prevent The Valve From Performing Its Function.</i>			
1DIB-25/(1PR-10)/MCB 125V PPB 1DIB BKR 25 (1PR-10)	OEE-158-08 Rev 10	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PRVA0059 RB HYDROGEN PURGE INLET			
1XL-0AB/(RSC-1PR-59)/MS 600V MCC 1XL-0AB REMOTE STARTER (1PR-59)	OEE-158-18 Rev 1	GTE-SYLVANIA BUL 6040 TM 1RSC-1PR-59/ENCL	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XL-0AB/(PRREMOTESTARTERS)/MCB 600V MCC 1XL BKR 0AB (1PR-59)	OEE-158-18 Rev 1	GENERAL-ELECTRIC THED (30 A) 1XL	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1PRVA0060 RB HYDROGEN PURGE OUTLET			
1XI-01BT/(RSC-1PR-60)/MS 600V MCC 1XI-01BT REMOTE STARTER (1PR-60)	OEE-158-19 Rev 1	GTE-SYLVANIA BUL 6040 TM 1RSC-1PR-60/ENCL	EVAL (OSC-6642) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XI-01BT/(PRREMOTESTARTERS)/MCB 600V MCC 1XI BKR 01BT (1PR -60)	OEE-158-19 Rev 1	GENERAL-ELECTRIC THED (30 A) 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Post Accident Monitoring**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1PAMP0304 RB Containment Water Level Train A Indication <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	WESTINGHOUSE VX-252 1UB1	NV AB 822
1PAMLT0090 RB Containment Water Level Train A <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	DELAVAL GEMS-TL1 1PAMLT0090	NV RB 777'+0"
1PAMLT0090/RCVR RB Containment Water Level Train A Receiver <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	DELAVAL GEMS-TL1 1UB1	NV AB 822
1SKJ-12/MCB(1PAMP0304) 120V PPB 1SKJ BKR 12 (1PAMP0304) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	SQUARE-D QOB (20 A) 1SKJ	NV AB 809
1PAMP0305 RB Containment Water Level Train B Indication <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	WESTINGHOUSE VX-252 1UB1	NV AB 822
1PAMLT0091 RB Containment Water Level Train B <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	DELAVAL GEMS-TL1 1PAMLT0091	NV RB 777'+0"
1PAMLT0091/RCVR RB Containment Water Level Train B Receiver <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	DELAVAL GEMS-TL1 1UB1	NV AB 822
1SKK-10/MCB(1PAMP0305) 120V PPB 1SKK BKR 10 (1PAMP0305) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-158-21 Rev 2	SQUARE-D QOB (20 A) 1SKK	NV AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Pressurizer Heaters

SUB SYSTEM: Bank 2 Group B

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RC3/PS5 RC PRESS INTERLOCK FROM ICS	OEE-149-08-A Rev 2	BAILEY CONTROLS 6613303-1 IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
RK-2/U1 PZR HTR CURRENT ALARM MODULE	OEE-149-08 Rev 17	ROCHESTER INSTRUMENTS ET-1215-T2-HI-T4-P1 IC1/IC2/MEC	CA SSF 797
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
159G PZR HTR GROUND RLY (PZR HTR BANK 2 GROUP B)	OEE-149-08 Rev 17	WESTINGHOUSE CV-8 (1339D80-A01) Class 1E PHC/SSF	GERs-RLY-PP2.6 SSF 777
<i>GERs - Seismically Adequate Per GERs.</i>			
183/BHA-2/U1 ICS AUTO SELECT RLY	OM 201-H-74 Rev DF	BAILEY CONTROLS 6614306-1 IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
183/BHO-2/U1 ICS ON SELECT RLY	OM 201-H-74 Rev DF	BAILEY CONTROLS 6614306-1 IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
183/PLL/U1 PRESS LOW LEVEL RLY	OM 201-H-73 Rev DM	BAILEY CONTROLS 6614306-1 IICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1PHRX/RX-9 PZR HTR GROUND AUX RLY	OEE-149-08 Rev 17	CUTLER-HAMMER D23MR40A PHC/SSF	GERs-RLY-AI2.4 SSF 777
<i>GERs - Seismically Adequate Per GERs.</i>			
1RX-24/PH PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP B)	OEE-149-08-A Rev 2	CUTLER-HAMMER D23MR40A PHC/SSF	CA SSF 777
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1RX-25/PH PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP B)	OEE-149-08 Rev 17	CUTLER-HAMMER D23MR40A PHC/SSF	CA SSF 777
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1RX-26/PH PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP B)	OEE-149-08-A Rev 2	CUTLER-HAMMER D23MR40A PHC/SSF	CA SSF 777
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TDR-9 PZR HTR CONTROL TIMER (PZR HTR BANK 2 GROUP B)	OEE-149-08-A Rev 2	CUTLER-HAMMER D23MR20A/D87ME30A2 PHC/SSF	CA SSF 777
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Pressurizer Heaters

SUB SYSTEM: Bank 2 Group B

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1TDRX-9 PZR HTR CONTROL RLY	OEE-149-08 Rev 17	CUTLER-HAMMER D23MR40A PHC/SSF	CA SSF 777
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
27/HI-RC/PH/U1 ICS UV RLY	OM 201-H-75 Rev DK	BAILEY CONTROLS 6614306-1 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
CR42-9/U1 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP B)	OEE-149-08-A Rev 2	CLARK BUL 7305, 5U2 PM 1XSF(600V)	CA SSF 817
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XSF-F03B(600V)/(M42-9)/MS 600V MCC 1XSF-F03B STARTER (PZR HTR BANK 2 GROUP B)	OEE-149-08 Rev 17	GTE-SYLVANIA BUL 6220 1XSF(600V)	CA SSF 817
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XSF-F03B(600V)/(M42-9)/MCB 600V MCC 1XSF BKR F03B (PZR HTR BANK 2 GROUP B)	OEE-149-08 Rev 17	GENERAL-ELECTRIC TFJ (150 A) 1XSF(600V)	NV SSF 817
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/GRP1B PZR HTR GROUP 1B MAIN BKR	OEE-149-08 Rev 17	GENERAL-ELECTRIC TFJ (225 A) 1B	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-07/U1 PZR HTR BKR BANK 2 GROUP 1B	OEE-149-08 Rev 17	GENERAL-ELECTRIC THEF6 (70 A) 1B	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-08/U1 PZR HTR BKR BANK 2 GROUP 1B	OEE-149-08 Rev 17	GENERAL-ELECTRIC THEF6 (70 A) 1B	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-09/U1 PZR HTR BKR BANK 2 GROUP 1B	OEE-149-08 Rev 17	GENERAL-ELECTRIC THEF6 (70 A) 1B	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Pressurizer Heaters**SUB SYSTEM: **Bank 2 Group C**

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
<i>Chatter Evaluation</i>			
1TDR-8 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	CUTLER-HAMMER D23MR20A/D87ME30A2 1XI	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1TDRX-8 PZR HTR CONTROL RLY	OEE-149-09-A Rev 6	CUTLER-HAMMER D23MR22A 1XI	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
50G(1XI-2A) PZR HTR GROUND OC RLY (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	ITE GR-5 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
CR42-8/U1 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	CLARK KPM-1A 1XI	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
PHRX/RX-8/U1 PZR HTR GROUND AUX RLY (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	CLARK X5U5-3 PM 1XI	EVAL (DPC-1393.00-00-0013) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XI-02A/(M42-8)/MS 600V MCC 1XI-02A STARTER (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	CLARK BUL 6220 1XI	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XI-02A/(M42-8)/MCB 600V MCC 1XI BKR 02A (PZR HTR BANK 2 GROUP C)	OEE-149-09-A Rev 6	GENERAL-ELECTRIC TFJ (200 A) 1XI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/GRP1C PZR HTR GROUP 1C MAIN BKR	OEE-149-09-A Rev 6	GENERAL-ELECTRIC TFJ (225 A) 1C	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-03/U1 PZR HTR BKR BANK 2 GROUP 1C	OEE-149-09-A Rev 6	GENERAL-ELECTRIC THEF6 (70 A) 1C	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-04/U1 PZR HTR BKR BANK 2 GROUP 1C	OEE-149-09-A Rev 6	GENERAL-ELECTRIC THEF6 (70 A) 1C	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-05/U1 PZR HTR BKR BANK 2 GROUP 1C	OEE-149-09-A Rev 6	GENERAL-ELECTRIC THEF6 (70 A) 1C	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Pressurizer Heaters**SUB SYSTEM: **Bank 2 Group C**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
52/LB-06/U1 PZR HTR BKR BANK 2 GROUP 1C	OEE-149-09-A Rev 6	GENERAL-ELECTRIC THEF6 (70 A) 1C	NV RB 818

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Pressurizer Heaters

SUB SYSTEM: Bank 2 Group D

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1TDR-7 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP D) <i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-149-09 Rev 8	CUTLER-HAMMER D23MR20A/D87ME30A2 1XJ	CA AB 809
1TDRX-7 PZR HTR CONTROL RLY <i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>	OEE-149-09 Rev 8	CUTLER-HAMMER D23MR22A 1XJ	CA AB 809
50G(1XJ-2A) PZR HTR GROUND OC RLY (PZR HTR BANK 2 GROUP D) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	ITE GR-5 1XJ	NV AB 809
CR42-7/U1 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP D) <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-149-09 Rev 8	CLARK KPM-1A 1XJ	CA AB 809
PHRX/RX-7/U1 PZR HTR GROUND AUX RLY (PZR HTR BANK 2 GROUP D) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-149-09 Rev 8	CLARK XSU5-3 PM 1XJ	EVAL (DPC-1393.00-00-0013) AB 809
1XJ-02A/(M42-7)/MS 600V MCC 1XJ-02A STARTER (PZR HTR BANK 2 GROUP D) <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-149-09 Rev 8	CLARK BUL 6220 1XJ	CA AB 809
1XJ-02A/(M42-7)/MCB 600V MCC 1XJ BKR 02A (PZR HTR BANK 2 GROUP D) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	GENERAL-ELECTRIC TFJ (200 A) 1XJ	NV AB 809
52/GRP1D PZR HTR GROUP 1D MAIN BKR <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	GENERAL-ELECTRIC TFJ (225 A) 1D	NV RB 818
52/LB-01/U1 PZR HTR BKR BANK 2 GROUP 1D <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	GENERAL-ELECTRIC THEF6 (70 A) 1D	NV RB 818
52/MB-12/U1 PZR HTR BKR BANK 2 GROUP 1D <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	GENERAL-ELECTRIC THEF6 (70 A) 1D	NV RB 818
52/MB-13/U1 PZR HTR BKR BANK 2 GROUP 1D <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-149-09 Rev 8	GENERAL-ELECTRIC THEF6 (70 A) 1D	NV RB 818

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Pressurizer Heaters

SUB SYSTEM: Bank 2 Group K

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
50G(1XK-1A) PZR HTR GROUND OC RLY (PZR HTR BANK 2 GROUP K)	OEE-149-11 Rev 10	ITE GR-5 1XK	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
CR42-10 PZR HTR CONTROL RLY (PZR HTR BANK 2 GROUP K)	OEE-149-11 Rev 10	CLARK BUL 7305, 5U4 PM 1XK	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
LLCO ICS LOW LEVEL CUTOFF RLY	OEE-149-11 Rev 10	POTTER-BRUMFIELD KRP14AN 1ICS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
PHRX/RX-10 PZR HTR GROUND AUX RLY (PZR HTR BANK 2 GROUP K)	OEE-149-11 Rev 10	CLARK X5U5-3 PM 1XK	EVAL (DPC-1393.00-00-0013) AB 809
<i>EVAL - Seismically Adequate Per Test Report.</i>			
TDR-10 PZR HTR TIME DELAY RLY	OEE-149-11 Rev 10	CUTLER-HAMMER D23MR20A/D87ME30A2 1XK	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
TDRX-10 PZR HTR TIME DELAY AUX RLY	OEE-149-11 Rev 10	CUTLER-HAMMER D23MR22A 1XK	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XK-01A/(M42-10)MS 600V MCC 1XK-01A STARTER (PZR HTR BANK 2 GROUP K)	OEE-149-11 Rev 10	CLARK BUL 6220 SIZE 5 (F5) 1XK	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XK-01A/(M42-10)MCB 600V MCC 1XK BKR 01A (PZR HTR BANK 2 GROUP K)	OEE-149-11 Rev 10	GENERAL-ELECTRIC TFJ (200 A) 1XK	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
52/LB-11/U1 PZR HTR BKR BANK 2 GROUP 1K	OEE-149-11 Rev 10	GENERAL-ELECTRIC THED (70 A) 1K	NV RB 818
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Cooling

SUB SYSTEM: Air Handling Units

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***IRBCAH0020A**

RBCU FAN 1A

1X08-06C 600V LC 1X08 BKR 06C (RBCU 1A FAN)	OEE-138-18 Rev 16	ITE K600 (600A) 1X08	NV AB 796
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NV - Not Vulnerable To Contact Chatter.

1AHRX RBCU 1A HIGH SPEED TIME DELAY RLY	OEE-138-18 Rev 16	CUTLER-HAMMER D23MR80A/D26MF 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1ALRX RBCU 1A LOW SPEED CONTROL RLY	OEE-138-18 Rev 16	CUTLER-HAMMER D23MR80A 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1CR-64(RBCU-1A)(RBCU-1A)(1ES-5) RBCU 1A ESFAS INTERFACE RLY	OEE-138-18 Rev 16	CUTLER-HAMMER D23MR40A 1ESTC1	GERS-RLY-AI2.4 AB 809
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GERS - Seismically Adequate Per GERS.

HI-TD/RBCU-1A RBCU 1A HIGH SPEED TIMER RLY	OEE-138-18 Rev 16	AGASTAT 7022 AB 1ESTC1	CA AB 809
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

LO-TD/RBCU-1A RBCU 1A LOW SPEED TIMER RLY	OEE-138-18 Rev 16	AGASTAT 7022 AB 1ESTC1	CA AB 809
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

R1/U1 RBCU 1A CONTROL RLY	OEE-138-18 Rev 16	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

RO(RBCU-1A)(1ES-5) RO RLY (RBCU 1A)	OEE-138-18 Rev 16	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
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EVAL - Seismically Adequate Per Test Report.

TR1/U1 RBCU 1A CONTROL RLY	OEE-138-18 Rev 16	CUTLER-HAMMER D23MR40A/D87ME30A2 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1XS1-F01A(RBCUFAN1A)/MS 600V MCC 1XS1-F01A STARTER (RBCU FAN 1A)	OEE-138-18 Rev 16	CLARK BUL 6013 TM (D5A) 1XS1	CA AB 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Cooling

SUB SYSTEM: Air Handling Units

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1XS1-F01A/(RBCUFAN1A)/MCB 600V MCC 1XS1 BKR F01A (RBCU FAN 1A FED FROM LC 1X8-06C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-18 Rev 16	GENERAL-ELECTRIC TJJ (300 A) 1XS1	NV AB 796
1RBCDA000A RBC DAMPER 1A <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-19 Rev 3	GAMEWELL MECH. M-503E 1RBCDA000A	NV RB 825
1XS1-R05D/(RBCUFAN1ADAMPER)/MS 208V MCC 1XS1-R05D STARTER (RBCU FAN 1A DAMPER) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-138-19 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XS1	EVAL (MCC QUAL) AB 796
1XS1-R05D/(RBCUFAN1ADAMPER)/MCB 208V MCC 1XS1 BKR R05D (RBCU FAN 1A DAMPER) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-19 Rev 3	GENERAL-ELECTRIC THEF (15 A) 1XS1	NV AB 796
1RBCAH0020B RBCU FAN 1B			
1BHRX RBCU 1B HIGH SPEED TIME DELAY RLY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR80A/D26MF 1ESTC3	CA AB 809
1BLRX RBCU 1B LOW SPEED CONTROL RLY <i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR80A 1ESTC3	CA AB 809
1CR-69(RBCU-1B)(1ES-5) RBCU 1B ESFAS INTERFACE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR40A 1ESTC3	GERS-RLY-AI2.4 AB 809
1CR-70(RBCU-1B)(1ES-6) RBCU 1B ESFAS INTERFACE RLY <i>GERS - Seismically Adequate Per GERS.</i>	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR40A 1ESTC3	GERS-RLY-AI2.4 AB 809
HI-TD/RBCU-1B RBCU 1B HIGH SPEED TIMER RLY <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-138-20 Rev 15	AGASTAT 7022 AB 1ESTC3	CA AB 809
LO-TD/RBCU-1B RBCU 1B LOW SPEED TIMER RLY <i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>	OEE-138-20 Rev 15	AGASTAT 7022 AB 1ESTC3	CA AB 809

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Cooling

SUB SYSTEM: Air Handling Units

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
R3/U1 RBCU 1B CONTROL RLY	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR40A 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
RO(RBCU-1B)(1ES-5) RO RLY (RBCU 1B)	OEE-138-20 Rev 15	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
RO(RBCU-1B)(1ES-6) RO RLY (RBCU 1B)	OEE-138-20 Rev 15	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
<i>EVAL - Seismically Adequate Per Test Report.</i>			
TR3/U1 RBCU 1B CONTROL RLY	OEE-138-20 Rev 15	CUTLER-HAMMER D23MR40A/D87ME30A2 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS3-01A/(RBCUFAN1B)/MS 600V MCC 1XS3-01A STARTER (RBCU FAN 1B)	OEE-138-20 Rev 15	CLARK BUL 6013 TM (D5A) 1XS3	CA AB 796
<i>CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS3-01A/(RBCUFAN1B)/MCB 600V MCC 1XS3 BKR 01A (RBCU FAN 1B)	OEE-138-20 Rev 15	GENERAL-ELECTRIC TJJ (225 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RBCDA000B RBC DAMPER 1B	OEE-138-21 Rev 7	GAMEWELL MECH. M-503E 1RBCDA000B	NV RB 825
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1ABX RBCU 1A FAN RUN RLY	OEE-138-21 Rev 7	STRUTHERS-DUNN 219ABAP 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1CBX RBCU 1C FAN RUN RLY	OEE-138-21 Rev 7	STRUTHERS-DUNN 219ABAP 1ESTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
1XS3-05E/(RBCUFAN1BDAMPER)/MS 208V MCC 1XS3-05E STARTER (RBCU FAN 1B DAMPER)	OEE-138-21 Rev 7	CLARK BUL 6030 CY-1 (H1) 1XS3	EVAL (MCC QUAL) AB 796
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XS3-05E/(RBCUFAN1BDAMPER)/MCB 208V MCC 1XS3 BKR 05E (RBCU FAN 1B DAMPER)	OEE-138-21 Rev 7	GENERAL-ELECTRIC THEF (15 A) 1XS3	NV AB 796
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Cooling

SUB SYSTEM: Air Handling Units

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1RBCAH0020C**

RBCU FAN 1C

1X09-06C 600V LC 1X09 BKR 06C (RBCU 1C FAN)	OEE-138-22 Rev 17	ITE K600 (600A) 1X09	NV AB 796
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NV - Not Vulnerable To Contact Chatter.

1CHRX RBCU 1C HIGH SPEED CONTROL RLY	OEE-138-22 Rev 17	CUTLER-HAMMER D23MR80A/D26MF 1ESTC2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1CLRXX RBCU-1C LOW SPEED CONT RLY	OEE-138-22 Rev 17	CUTLER-HAMMER D23MR80A 1ESTC2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1CR-72(RBCU-1C)(1ES-6) RBCU 1C ESFAS INTERFACE RLY	OEE-138-22 Rev 17	CUTLER-HAMMER D23MR40A 1ESTC2	GERS-RLY-AI2.4 AB 809
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GERS - Seismically Adequate Per GERS.

HI-TD/RBCU-1C RBCU 1C HIGH SPEED TIMER RLY	OEE-138-22 Rev 17	AGASTAT 7022 AB 1ESTC2	CA AB 809
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

LO-TD/RBCU-1C RBCU 1C LOW SPEED TIMER RLY	OEE-138-22 Rev 17	AGASTAT 7022 AB 1ESTC2	CA AB 809
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

R2/U1 RBCU 1C CONTROL RLY	OEE-138-22 Rev 17	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

RO(RBCU-1C)(1ES-6) RO RLY (RBCU 1C)	OEE-138-22 Rev 17	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
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EVAL - Seismically Adequate Per Test Report.

TR2/U1 RBCU 1C CONTROL RLY	OEE-138-22 Rev 17	CUTLER-HAMMER D23MR40A/D87MR30A2 1ESTC2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

1XS2-F01A(RBCUFAN1C)/MS 600V MCC 1XS2-F01A STARTER (RBCU FAN 1C)	OEE-138-22 Rev 17	CLARK BUL 6013 TM (D5A) 1XS2	CA AB 796
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CA - Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Reactor Building Cooling**SUB SYSTEM: **Air Handling Units**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1XS2-F01A/(RBCUFAN1C)/MCB 600V MCC 1XS2 BKR F01A (RBCU FAN 1C FED FROM LC 1X9-06C) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-22 Rev 17	GENERAL-ELECTRIC TJJ (300 A) 1XS2	NV AB 796
1RBCDA000C RBC DAMPER 1C <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-23 Rev 3	GAMEWELL MECH. M-503E 1RBCDA000C	NV RB 825
1XS2-R04D/RBCUFAN1CDAMPER/MS 208V MCC 1XS2-R04D STARTER (RBCU FAN 1C DAMPER) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-138-23 Rev 3	CLARK BUL 6030 CY-1 (H1) 1XS2	EVAL (MCC QUAL) AB 796
1XS2-R04D/(RBCUFAN1CDAMPER)/MCB 208V MCC 1XS2 BKR R04D (RBCU FAN 1C DAMPER) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-138-23 Rev 3	GENERAL-ELECTRIC THEF (15 A) 1XS2	NV AB 796

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Spray

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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IBSVA0001

RB SPRAY HEADER 1A ISOLATION

1CR-01(1BS-1)(BS-V1A)(1ES-7) 1BS-1 ESFAS INTERFACE RLY	OEE-159-03 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	GERs-RLY-AI2.4 AB 809
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GERs - Seismically Adequate Per GERs.

1RX-01(1BS-1)(BS-V1A)(1ES-7) 1BS-1 CONTROL RLY	OEE-159-03 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	GERs-RLY-AI2.4 AB 809
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GERs - Seismically Adequate Per GERs.

1RX-02(1BS-1)(BS-V1A)(1ES-7) 1BS-1 CONTROL RLY	OEE-159-03 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
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Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

RO(1BS-1)(BS-V1A)(1ES-7) RO RLY (1BS-1)	OEE-159-03 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
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EVAL - Seismically Adequate Per Test Report.

1XS1-R05C/(1BS-1)/MS 208V MCC 1XS1-R05C STARTER (1BS-1)	OEE-159-03 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS1	EVAL (MCC QUAL) AB 796
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EVAL - Seismically Adequate Per Test Report.

1XS1-R05C/(1BS-1)/MCB 208V MCC 1XS1 BKR R05C (1BS-1)	OEE-159-03 Rev 9	GENERAL-ELECTRIC TED (50 A) 1XS1	NV AB 796
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*NV - Not Vulnerable To Contact Chatter.***IBSVA0002**

RB SPRAY HEADER 1B ISOLATION

1CR-04(1BS-2)(BS-V1B)(1ES-8) 1BS-2 ESFAS INTERFACE RLY	OEE-159-04 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC2	GERs-RLY-AI2.4 AB 809
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GERs - Seismically Adequate Per GERs.

1RX-03(1BS-2)(BS-V1B)(1ES-8) 1BS-2 CONTROL RLY	OEE-159-04 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC2	GERs-RLY-AI2.4 AB 809
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GERs - Seismically Adequate Per GERs.

1RX-04(1BS-2)(BS-V1B)(1ES-8) 1BS-2 CONTROL RLY	OEE-159-04 Rev 9	CUTLER-HAMMER D23MR40A 1ESTC2	CA AB 809
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Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Building Spray

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RO(1BS-2)(BS-V1B)(1ES-8) RO RLY (1BS-2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-159-04 Rev 9	BAILEY CONTROLS 6623990 1ESFAS	EVAL (OSC-6642) AB 822
1XS2-R04A/(1BS-2)/MS 208V MCC 1XS2-R04A STARTER (1BS-2) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-159-04 Rev 9	CLARK BUL 6030 CY-1 (H1A) 1XS2	EVAL (MCC QUAL) AB 796
1XS2-R04A/(1BS-2)/MCB 208V MCC 1XS2 BKR R04A (1BS-2) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-159-04 Rev 9	GENERAL-ELECTRIC TED (50 A) 1XS2	NV AB 796
1BSVA0003 RBS PUMP SUCTION ISOL			
1XS1-R04E/(1BS-3)/MS 208V MCC 1XS1-R04E STARTER (1BS-3) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-159-01 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XS1	EVAL (MCC QUAL) AB 796
1XS1-R04E/(1BS-3)/MCB 208V MCC 1XS1 BKR R04E (1BS-3) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-159-01 Rev 4	GENERAL-ELECTRIC TED (20 A) 1XS1	NV AB 796
1BSVA0004 RBS PUMP SUCTION ISOL			
1XS2-R01D/(1BS-4)/MS 208V MCC 1XS2-R01D STARTER (1BS-4) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-159-02 Rev 4	CLARK BUL 6030 CY-1 (H1) 1XS2	EVAL (MCC QUAL) AB 796
1XS2-R01D/(1BS-4)/MCB 208V MCC 1XS2 BKR R01D (1BS-4) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-159-02 Rev 4	GENERAL-ELECTRIC TED (20 A) 1XS2	NV AB 796

Table 5-1-01
A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Reactor Coolant**

SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RCP0365 PZR LEVEL INDICATOR	OEE-155-34 Rev 1	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCLT0004P1 PRZ LEVEL TRANSMITTER	OEE-155-34 Rev 1	ROSEMOUNT 1154HP5RB 1RCLT0004P1	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-08/MCB(1RCP0365) 120V PPB 1KVIA BKR 08 (1RCP0365)	OEE-155-33 Rev 2	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCP0367 PZR TEMP INDICATOR	OEE-155-34 Rev 1	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCRD0043A PRZ RTD	OEE-155-34 Rev 1	WEED INSTRUMENT N9261 1RCRD0043A	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIA-08/MCB(1RCP0367) 120V PPB 1KVIA BKR 08 (1RCP0367)	OEE-155-33 Rev 2	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCP0368 PZR LEVEL INDICATOR	OEE-155-37 Rev 0	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCLT0004P3 PRZ LEVEL TRANSMITTER	OEE-155-37 Rev 0	ROSEMOUNT 1154HP5RB 1RCLT0004P3	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1KVIB-13/MCB(1RCP0368) 120V PPB 1KVIB BKR 13 (1HPIP0368)	OEE-155-36 Rev 1	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCP0369 PZR TEMP INDICATOR	OEE-155-37 Rev 0	DIXSON SA101AXTX 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCRD0043B PRZ RTD	OEE-155-37 Rev 0	WEED INSTRUMENT N9261 1RCRD0043B	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Reactor Coolant**SUB SYSTEM: **Instrumentation**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	S47* Building Floor Elev
1KVIB-13/MCB(1RCP0369) 120V PPB 1KVIB BKR 13 (1RCP0369)	OEE-155-36 Rev 1	ITE QP1 (20 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCP0376 ICCM WR HOT LEG TEMP INDICATION	OEE-150-23 Rev 1	DIGITEC 2820-27 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCRD0084B A HOT LEG RTD	OEE-155-23 Rev 0	ROSEMOUNT 177GY 1RCRD0084B	NV RB 844'+6"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MT-87(RD84B) WR TEMP SIGNAL CONDITIONER (ICC A)	OEE-155-23 Rev 0	ROCHESTER INSTRUMENTS XSC-1302 1TDC3	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
TAL/U1 WR COLDLEG TEMP INDICATION CONTROL RLY	OEE-150-23 Rev 1	SQUARE-D 8501-RS14 1TDC3	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1RCRD0085B B HOT LEG RTD	OEE-155-23 Rev 0	ROSEMOUNT 177GY 1RCRD0085B	NV RB 844'+6"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MT-89(RD85B) WR TEMP SIGNAL CONDITIONER (ICC B)	OEE-155-23 Rev 0	ROCHESTER INSTRUMENTS XSC-1302 1TDC3	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
TBL/U1 WR HOTLEG TEMP INDICATION CONTROL RLY	OEE-150-23 Rev 1	SQUARE-D 8501-RS14 1TDC3	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1KI-18/MCB(1RCP0376) 120V PPB 1KI BKR 18 (RC Instrumentation)	OEE-150-23 Rev 1	ITE CC (20 A) 1KI	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCP0377 RCS COLD LEG TEMP INDICATION	OEE-150-24 Rev 1	DIGITEC 2820-27 1UB1	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCRD0005B A2 COLD LEG RTD	OEE-150-24 Rev 1	ROSEMOUNT 177GY 1RCRD0005B	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Instrumentation

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1RCRD0005B BRIDGE LINEAR BRIDGE (1RCRD5B)	OEE-150-24 Rev 1	ROSEMOUNT 414F 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1RCTT0016P(RD5B) 1A2 COLD LEG TEMP XMTR (1RD5B)	OEE-150-24 Rev 1	BAILEY CONTROLS 6625050-1 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MT-83(RD05B) WR COLDLEG TEMP SIGNAL CONDITIONER	OEE-150-25 Rev 0	ROCHESTER INSTRUMENTS XSC-1302 1TDC3	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
183/WRC-A/U1 U1 WR INLET TEMP LOOP A SELECTION	OM 201-H-69 Rev DM	POTTER-BRUMFIELD KRP14AN 1ICS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.</i>			
TA2/U1(RD05B) WR COLDLEG TEMP INDICATION CONTROL RLY	OEE-150-24 Rev 1	SQUARE-D 8501-RS14 1TDC3	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1RCRD0006A A1 COLD LEG RTD	OEE-150-24 Rev 1	ROSEMOUNT 177GY 1RCRD0006A	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCRD0006A BRIDGE LINEAR BRIDGE (1RCRD6A)	OEE-150-24 Rev 1	ROSEMOUNT 414F 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1RCTT0013P(RD6A) 1A1 COLD LEG TEMP XMTR (1RD6A)	OEE-150-24 Rev 1	BAILEY CONTROLS 6625050-1 1ICS	NV AB 822
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1MT-82(RD06A) WR LOOP 1A1 XMTR	OEE-150-25 Rev 0	ROCHESTER INSTRUMENTS XSC-1302 1TDC3	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
TA1/U1(RD06A) WR COLDLEG TEMP INDICATION CONTROL RLY	OEE-150-24 Rev 1	SQUARE-D 8501-RS14 1TDC3	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.</i>			
1RCRD0007B B2 COLD LEG RTD	OEE-150-24 Rev 1	ROSEMOUNT 177GY 1RCRD0007B	NV RB 797'+0"
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Instrumentation

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

1RCRD0007B	OEE-150-24 Rev 1	ROSEMOUNT	CA
LINEAR BRIDGE (1RCRD7B)		414F	AB
		1ICS	822

CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.

1RCTT0018P(RD7B)	OEE-150-24 Rev 1	BAILEY CONTROLS	NV
1B2 COLD LEG TEMP XMTR (1RD7B)		6625050-1	AB
		1ICS	822

NV - Not Vulnerable To Contact Chatter.

1MT-85(RD07B)	OEE-150-25 Rev 0	ROCHESTER INSTRUMENTS	NV
WR COLDLEG TEMP SIGNAL CONDITIONER		XSC-1302	AB
		1TDC3	809

NV - Not Vulnerable To Contact Chatter.

183/WRC-B/U1	OM 201-H-70 Rev DM	POTTER-BRUMFIELD	CA
U1 WR INLET TEMP LOOP B SELECTION		KRP14AN	AB
		1ICS	822

Rugged Relay Whose Contact Chatter Is Acceptable Because The System Can Tolerate Momentary Interruptions.

TB2/U1(RD07B)	OEE-150-24 Rev 1	SQUARE-D	CA
WR COLDLEG TEMP INDICATION CONTROL RLY		8501-RS14	AB
		1TDC3	809

CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.

1RCRD0008A	OEE-150-24 Rev 1	ROSEMOUNT	NV
B1 COLD LEG RTD		177GY	RB
		1RCRD0008A	797'+0"

NV - Not Vulnerable To Contact Chatter.

1RCRD0008ABRIDGE	OEE-150-24 Rev 1	ROSEMOUNT	CA
LINEAR BRIDGE (1RCRD8A)		414F	AB
		1ICS	822

CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.

1RCTT0015P(RD8A)	OEE-150-24 Rev 1	BAILEY CONTROLS	NV
1B1 COLD LEG TEMP XMTR (1RD8A)		6625050-1	AB
		1ICS	822

NV - Not Vulnerable To Contact Chatter.

1MT-84(RD08A)	OEE-150-25 Rev 0	ROCHESTER INSTRUMENTS	NV
WR RC LOOP 1B1 XMTR		XSC-1302	AB
		1TDC3	809

NV - Not Vulnerable To Contact Chatter.

TB1/U1(RD08A)	OEE-150-24 Rev 1	SQUARE-D	CA
WR COLDLEG TEMP INDICATION CONTROL RLY		8501-RS14	AB
		1TDC3	809

CA - Contact Chatter Is Acceptable Because Chatter Can Cause Momentary Interruptions In Status/Alarms.

1KI-18/MCB(1RCP0377)	OEE-150-24 Rev 1	ITE	NV
120V PPB 1KI BKR 18 (RC Instrumentation)		CC (20 A)	AB
		1KI	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
IRCV A0003			
PRZ SPRAY ISOLATION			
83-L/SSV/U1 ICS CONTROL LATCHING RLY (1RC-3) (SHOWN AS MO & MC CONTACTS) <i>GERS - Seismically Adequate Per GERS.</i>	OM 201.H-0073 Rev DM	POTTER-BRUMFIELD KRP11AG IICS	GERS-RLY-ARS.4 AB 822
1XO-R03D/(1RC-3)/MS 208V MCC 1XO-R03D STARTER (1RC-03) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-150-02 Rev 5	CLARK BUL 6030 CY-1 (H1) 1XO	EVAL (MCC QUAL) AB 796
1XO-R03D/(1RC-3)/MCB 208V MCC 1XO BKR R03D (1RC-03) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-150-02 Rev 5	GENERAL-ELECTRIC TEF6 (28/68 A) 1XO	NV AB 796
IRCV A0004			
PRZ PORV BLOCK VALVE			
1XSF-F06C(600V)/(1RC-4)/MS 600V MCC 1XSF-F06C STARTER (1RC-04) <i>EVAL - Seismically Adequate Per Test Report.</i>	OEE-150 Rev 9	GTE-SYLVANIA BUL 6240 1XSF(600V)	EVAL (SSF QUAL) SSF 817
1XSF-F06C(600V)/(1RC-4)/MCB 600V MCC 1XSF BKR F06C (1RC-04) <i>NV - Not Vulnerable To Contact Chatter.</i>	OEE-150 Rev 9	GENERAL-ELECTRIC THED (20 A) 1XSF(600V)	NV SSF 817
IRCV A0005			
PRZ STEAM SAMPLE ISOLATION			
1CR-54(1RC-5)(CA-V1)(IES-1) 1RC-5 ESFAS INTERFACE RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-157 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
1RX-47(1RC-5)(CA-V1)(IES-1) 1RC-5 CONTROL RLY <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-157 Rev 12	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
RO(1RC-5)(CA-V1)(IES-1) RO RLY (1RC-5) <i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>	OEE-157 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
<i>Chatter Evaluation</i>			
1XSF-1-01D/(1RC-5)/MS 208V MCC 1XSF-1-01D STARTER (1RC-05)	OEE-157 Rev 12	GTE-SYLVANIA BUL 6240 1XSF-1(208V)	EVAL (SSF QUAL) SSF 797
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-1-01D/(1RC-5)/MCB 208V MCC 1XSF-1 BKR 01D (1RC-05)	OEE-157 Rev 12	GENERAL-ELECTRIC THED (20 A) 1XSF-1(208V)	NV SSF 797
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IRCV A0006			
PRZ WATER SAMPLE ISOLATION			
1CR-55(1RC-6)(CA-V3)(1ES-1) 1RC-6 ESFAS INTERFACE RLY	OEE-157-01 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-48(1RC-6)(CA-V3)(1ES-1) 1RC-6 CONTROL RLY	OEE-157-01 Rev 11	CUTLER-HAMMER D23MR40A 1ESTC1	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
RO(1RC-6)(CA-V3)(1ES-1) RO RLY (1RC-6)	OEE-157-01 Rev 11	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1XSF-1-01E/(1RC-6)/MS 208V MCC 1XSF-1-01E STARTER (1RC-06)	OEE-157-01 Rev 11	GTE-SYLVANIA BUL 6240 1XSF-1(208V)	EVAL (SSF QUAL) SSF 797
<i>EVAL - Seismically Adequate Per Test Report.</i>			
1XSF-1-01E/(1RC-6)/MCB 208V MCC 1XSF-1 BKR 01E (1RC-06)	OEE-157-01 Rev 11	GENERAL-ELECTRIC THED (20 A) 1XSF-1(208V)	NV SSF 797
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IRCV A0007			
PRZ WATER SAMPLE ISOLATION			
1CR-39(1RC-7)(1ES-2) 1RC-7 ESFAS INTERFACE RLY	OEE-157-04 Rev 12	CUTLER-HAMMER D23MRD40A 1ESTC2	CA AB 809
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1RX-35(1RC-7)(1ES-2) 1RC-7 CONTROL RLY	OEE-157-04 Rev 12	CUTLER-HAMMER D23MRD40A 1ESTC2	GERS-RLY-AI2.4 AB 809
<i>GERS - Seismically Adequate Per GERS.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
RO(1RC-7)(1ES-2) RO RLY (1RC-7)	OEE-157-04 Rev 12	BAILEY CONTROLS 6623990 1ESFAS	CA AB 822
<i>Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.</i>			
1DIB-25/(1RC-7)/MCB 125V PPB 1DIB BKR 25 (1RC-07)	OEE-157-04 Rev 12	ITE EH2 (50 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
1RCVA0066 PRZ PORV			
1RCIS0148 1RC-66 CURRENT MODULE	OEE-150-07-B Rev 0	ROCHESTER ET-1215-X 1PIR	CA AB 809
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
1RCTI0148 1RC-66 CONTROL TIMER	OEE-150-07 Rev 10	AGASTAT 7012 PB 1MTC4	GER-S-RLY-PNT.7 AB 809
<i>GER-S - Seismically Adequate Per GERS.</i>			
27/HI-RC/RC-66/U1 ICS UV RLY	OM 201.H-0075 Rev DK	BAILEY CONTROLS 6614306-1 1ICS	CA AB 822
<i>CA - Contact Chatter Is Acceptable Because Chatter Is Blocked By Rugged Device(s).</i>			
CRV3/U1 1RC-66 SOLENOID ACTUATOR CONTACTOR	OEE-150-07 Rev 10	ITE/GOULD P102C111 1MTC4	CNA AB 809
<i>CNA - Contact Chatter Is Not Acceptable Because Chatter Can Misposition 30 Second PORV (RC-66).</i>			
PRV3/U1 1RC-66 CONTROL RLY	OEE-150-07 Rev 10	CUTLER-HAMMER D26MRD30A1 1MTC3	CA AB 809
<i>Rugged Relay Whose Contact Chatter Is Blocked By Rugged Device(s).</i>			
RV3X/U1 1RC-66 CONTROL RLY	OEE-150-07 Rev 10	STRUTHERS-DUNN 219BBXP 1MTC3	GER-S-RLY-ARS.4 AB 809
<i>GER-S - Seismically Adequate Per GERS.</i>			
RV3XA/U1 1RC-66 CONTROL RLY	OEE-150-07 Rev 10	STRUTHERS-DUNN 219BBXP 1MTC3	GER-S-RLY-ARS.4 AB 809
<i>GER-S - Seismically Adequate Per GERS.</i>			
1DIB-24/MCB 125V PPB 1DIB BKR 24 (1RC-66)	OEE-150-07 Rev 10	ITE EH2 (30 A) 1DIB/PPB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Reactor Coolant

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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Chatter Evaluation

1KG-20/MCB 120V PPB 1KG BKR 20 (1RCIS0148)	OEE-150-07-B Rev 0	GENERAL-ELECTRIC TQL (20 A) 1KG	NV AB 838
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NV - Not Vulnerable To Contact Chatter.

1RCPT0017P RCS LOOP A PRESS TRANS	OM 201.K-0012 Rev DF	ROSEMOUNT 1152GP9A22MB 1RCPT0017P	NV RB 825'+0"
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NV - Not Vulnerable To Contact Chatter.

1RC3/PS8 RC PRESSURE CONTROL SWITCH	OM 201.H-0067 Rev DJ	BAILEY CONTROLS 6613303-1 1ICS	CNA AB 822
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CNA - Contact Chatter Is Not Acceptable Because Chatter Can Misposition 30 Second PORV (RC-66).

BA(1RCPT0017P) BUFFER AMPLIFIER (1RCPT0017P)	OM 201.K-0012 Rev DF	BAILEY CONTROLS 6621670 1RPS	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

PWRSUP(1RCPT0017P) 1RCTT0017P POWER SUPPLY	OM 201.K-0012 Rev DF	MOTOROLA 6623903 1RPS	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

SA(1RCPT0017P) SUMMER AMPLIFIER (1RCPT0017P)	OM 201.H-0067 Rev DJ	BAILEY CONTROLS 6620255 1ICS	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

1RCPT0166P RCS LOOP B PRESS TRANS	OM 201.K-0052 Rev DF	ROSEMOUNT 1152GPA22MB 1RCPT0166P	NV RB 825'+0"
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NV - Not Vulnerable To Contact Chatter.

BA(1RCPT0166P) BUFFER AMPLIFIER (1RCPT0166P)	OM 201.K-0052 Rev DF	BAILEY CONTROLS 6621670 1RPS	NV AB 822
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NV - Not Vulnerable To Contact Chatter.

PWRSUP(1RCPT0166P) 1RCTT0166P POWER SUPPLY	OM 201.K-0052 Rev DF	MOTOROLA 6623903 1RPS	NV AB 822
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*NV - Not Vulnerable To Contact Chatter.***1RCVA0155**

RCS HOT LEG 1A VENT

1SKJ-08/MCB(1RC-155) 120V PPB 1SKJ BKR 08 (1RC-155)	OEE-150-19 Rev 2	SQUARE-D QOB (20 A) 1SKJ	NV AB 809
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NV - Not Vulnerable To Contact Chatter.

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Reactor Coolant**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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IRCVA0157

RCS HOT LEG 1B VENT

1SKK-08/MCB(1RC-157)	OEE-150-15 Rev 2	SQUARE-D	NV
120V PPB 1SKK BKR 08 (1RC-157)		QOB (20 A)	AB
		1SKK	809

*NV - Not Vulnerable To Contact Chatter.***IRCVA0159**

RV VENT ISOLATION

1SKL-08/MCB(1RC-159)	OEE-150-16 Rev 3	SQUARE-D	NV
120V PPB 1SKL BKR 08 (1RC-159)		QOB (20 A)	AB
		1SKL	809

*NV - Not Vulnerable To Contact Chatter.***IRCVA0160**

RV VENT ISOLATION

1SKL-08/MCB(1RC-160)	OEE-150-16 Rev 3	SQUARE-D	NV
RV HEAD VENT VALVE (1RC-160)		QOB (20 A)	AB
		1SKL	809

*NV - Not Vulnerable To Contact Chatter.***IRCVA0162**

POST ACC SAMPLE PATH ISOL

1KVIB-14/MCB(1RC-162)	OEE-162-04 Rev 2	ITE	NV
120V PPB 1KVIB BKR 14 (1RC-162)		QP1 (30 A)	AB
		1KVIB	809

*NV - Not Vulnerable To Contact Chatter.***IRCVA0163**

POST ACC SAMPLE PATH ISOL

1KVIC-14/MCB(1RC-163)	OEE-162-04 Rev 2	ITE	NV
120V PPB 1KVIC BKR 14 (1RC-163)		QP1 (20 A)	AB
		1KVIC	809

*NV - Not Vulnerable To Contact Chatter.***IRCVA0164**

POST ACC SAMPLE PATH ISOL

Table 5-1-O1

A-46 RELAY SCREENING AND EVALUATION
 FORM G.4 - CONTACT DEVICE TABULATION
 OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: **U1 Reactor Coolant**SUB SYSTEM: **Valves**

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
1KVIB-14/MCB(1RC-164) 120V PPB 1KVIB BKR 14 (1RC-164)	OEE-162-05 Rev 2	ITE QP1 (30 A) 1KVIB	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IRCV A0165			
POST ACC SAMPLE PATH ISOL			
1KVIA-04/MCB(1RC-165) 120V PPB 1KVIA BKR 04 (1RC-165)	OEE-162-05 Rev 2	ITE QP1 (20 A) 1KVIA	NV AB 809
<i>NV - Not Vulnerable To Contact Chatter.</i>			
IRCV A0179			
POST ACC SAMPLE THROTTLE			
K6/U1 RC-179 CONTROL RLY	OEE-162-02 Rev 2	POTTER-BRUMFIELD KRP11AG 1PASCP	GER-S-RLY-ARS.4 AB 771
<i>GER-S - Seismically Adequate Per GERS.</i>			
1L2-39/MCB(1RC-179) 120V PPB 1L2 BKR 39 (1RC-179)	OEE-162-02 Rev 2	GENERAL-ELECTRIC TQL (20 A) 1L2	NV AB 771
<i>NV - Not Vulnerable To Contact Chatter.</i>			

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Waste Disposal

SUB SYSTEM: Valves

Component ID Name	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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*Chatter Evaluation***1CSVA0005**

QUENCH TANK DRAIN

1CR-59(1CS-5)(WD-V12)(1ES-1)	OEE-160-05 Rev 10	CUTLER-HAMMER	CA
1CS-5 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-52(1CS-5)(WD-V12)(1ES-1)	OEE-160-05 Rev 10	CUTLER-HAMMER	CA
1CS-5 CONT RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1CS-5)(WD-V12)(1ES-1)	OEE-160-05 Rev 10	BAILEY CONTROLS	CA
RO RLY (1CS-5)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XS1-R02D/(1CS-5)/MS	OEE-160-05 Rev 10	CLARK	EVAL (MCC QUAL)
208V MCC 1XS1-R02D STARTER (1CS-5)		BUL 6030 CY-1 (H1A)	AB
		1XS1	796

EVAL - Seismically Adequate Per Test Report.

1XS1-R02D/(1CS-5)/MCB	OEE-160-05 Rev 10	GENERAL-ELECTRIC	NV
208V MCC 1XS1 BKR R02D (1CS-5)		TEF6 (15 A)	AB
		1XS1	796

*NV - Not Vulnerable To Contact Chatter.***1CSVA0006**

QUENCH TANK DRAIN

1CR-44(1CS-6)(WD-V5)(1ES-2)	OEE-160-01 Rev 11	CUTLER-HAMMER	CA
1CS-6 ESFAS INTERFACE RLY		D23MRD40A	AB
		1ESTC2	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1SR5	OEE-160-01 Rev 11	CUTLER-HAMMER	GERS-RLY-AI2.4
1CS-6 CONT RLY		D26MRD30A1	AB
		1ESTC2A	809

GERS - Seismically Adequate Per GERS.

RO(1CS-6)(WD-V5)(1ES-2)	OEE-160-01 Rev 11	BAILEY CONTROLS	CA
RO RLY (1CS-6)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1DIB-25/(1CS-6)/MCB	OEE-160-01 Rev 11	ITE	NV
125V PPB 1DIB BKR 25 (1CS-6)		EH2 (50 A)	AB
		1DIB/PPB	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

A-46 RELAY SCREENING AND EVALUATION
FORM G.4 - CONTACT DEVICE TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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SYSTEM: U1 Waste Disposal

SUB SYSTEM: Valves

Component ID Name <i>Chatter Evaluation</i>	Ref Dwg/Revision	Manufacturer Modelno Location	SAT* Building Floor Elev
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1GWDVA0012

QUENCH TANK VENT

1CR-58(1GWD-12)(WD-V1)(1ES-1)	OEE-160-04 Rev 11	CUTLER-HAMMER	CA
1GWD-12 ESFAS INTERFACE RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1RX-51(1GWD-12)(WD-V1)(1ES-1)	OEE-160-04 Rev 11	CUTLER-HAMMER	CA
1GWD-12 CONT RLY		D23MR40A	AB
		1ESTC1	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

RO(1GWD-12)(WD-V1)(1ES-1)	OEE-160-04 Rev 11	BAILEY CONTROLS	CA
RO RLY (1GWD-12)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1XS1-R02B(1GWD-12)/MS	OEE-160-04 Rev 11	CLARK	EVAL (MCC QUAL)
208V MCC 1XS1-R02B STARTER (1GWD-12)		BUL 6030 CY-1 (H1A)	AB
		1XS1	796

EVAL - Seismically Adequate Per Test Report.

1XS1-R02B(1GWD-12)/MCB	OEE-160-04 Rev 11	GENERAL-ELECTRIC	NV
208V MCC 1XS1 BKR R02B (1GWD-12)		THEF (15 A)	AB
		1XS1	796

*NV - Not Vulnerable To Contact Chatter.***1GWDVA0013**

QUENCH TANK VENT

1CR-42(1GWD-13)(WD-V2)(1ES)	OEE-160 Rev 10	CUTLER-HAMMER	CA
1GWD-13 ESFAS INTERFACE RLY		D23MRD40A	AB
		1ESTC2	809

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1SR3	OEE-160 Rev 10	CUTLER-HAMMER	GERS-RLY-A12.4
1GWD-13 CONT RLY		D26MRD30A1	AB
		1ESTC2A	809

GERS - Seismically Adequate Per GERS.

RO(1GWD-13)(WD-V2)(1ES-2)	OEE-160 Rev 10	BAILEY CONTROLS	CA
RO RLY (1GWD-13)		6623990	AB
		1ESFAS	822

Rugged Relay Whose Contact Chatter Can Cause The Valve To Go To Its Desired Position.

1DIB-25(1GWD-13)/MCB	OEE-160 Rev 10	ITE	NV
125V PPB 1DIB BKR 25 (1GWD-13)		EH2 (50 A)	AB
		1DIB/PPB	809

NV - Not Vulnerable To Contact Chatter.

Table 5-1-01

USI A-46 SCREENING AND EVALUATION
FORM G.4 - RELAY TABULATION
OCONEE NUCLEAR STATION - UNIT 1 + SHARED EQUIPMENT

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* SAT Codes

BA - Low Ruggedness
CA - Chatter acceptable.
CNA - Chatter Not Acceptable
NV - Not Vulnerable (mechanically actuated contacts and solid state relays).
GERS - Seismically adequate based on GERS ____; include GERS number.
NA - Component not affected by relays.
CR - Corrective action required.
OA - Operator action.
EVAL - Evaluated using other test reports, etc.
- - No entry necessary

Prepared by

Capt Cherry

Date

9/10/98

Reviewed by

L J Man

Date

09/14/98