INSERTION INSTRUCTIONS FOR REVISION 2 TO THE ENVIRONMENTAL QUALIFICATION REPORT (EQR)

The following text, tables, and figures are to be inserted in the EQR. These pages are either replacement pages or new pages as indicated below.

All replacement pages whose content differs from existing pages are identified with the revision number and date in the lower right hand corner. Bars located in the margin of a particular page indicate material which is modified in the revision indicated at the bottom of the page.

Remove the attached self adhesive label and affix it tc the inside front cover of the binder containing the EQR. This is now a controlled document and subsequent revisions will be distributed only to holders of numbered copies of the EQR.

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SECTION 1

INTRODUCTION

1.1 PURPOSE

The purpose of the Environmental Qualification (EQ) Program for the Shoreham Nuclear Power Station is to provide assurance that all electrical equipment (safety-related Class 1E equipment and equipment required by Regulatory Guide 1.97) located in potential harsh environments maintain functional operability when required to mitigate the consequences of a postulated accident or to bring the plant to a cold shutdown condition afterwards. This assurance is provided by comparing environmental information contained in electrical equipment qualification documents against the postulated environment to which the equipment may be subjected. This review results in one of the following:

a. documentation of environmental qualification of equipment to demonstrate that requirements are adequately met, or

b. upgrading of qualification or requalification of equipment which does not meet minimum requirements, or

c. modification of design to meet the applicable requirements, or

d. replacement of any equipment which lacks sufficient evidence of qualification with qualified equipment.

1.2 SCOPE

The equipment identified for environmental qualification include:

a. safety-related Class 1E Electrical Equipment (hereafter referred to as equipment) located in potentially harsh environments, and required to operate during or after such an environment,

b. sensing devices located in potentially harsh environments for display instruments which monitor the condition of the plant during and after postulated accidents as required by Regulatory Guide 1.97, (these are designated with "RG" in the third column of the Equipment Qualification Status Report (EQSR) in Appendix F), and | 2

c. Three Mile Island (TMI) Lessons Learned modifications to safety-related systems including control and monitoring devices located in potentially harsh environments.

Environmental conditions to which the above equipment may be subjected consist of the following:

a. pressure

b. temperature

c. relative humidity

d. radiation

e. flooding/submergence

f. fluid spray

Equipment qualification documents are reviewed with respect to the following:

a. service conditions to which equipment is subjected,

b. design basis events (LOCA, MELB, HELB) which equipment is to mitigate,

c. operating time, or the time during which the equipment is required to perform a function so as to mitigate the consequences of the design basis event

d. qualification methodology based on the Operating Codes defined in Appendix E of NUREG-0588

e. aging considerations, and

f. margins

The review is documented on the Environmental Qualification Report Evaluation Form (EQREF) and the Environmental Qualification Summary Sheet (EQSS), and is tabulated in the computerized Environmental Qualification Status Report (EQSR).

Equipment successfully tested for an environmental profile which meets or exceeds postulated service conditions satisfies the qualification conditions and the qualification report is approved.

If a qualification report does not provide sufficient evidence of qualification, then alternative qualification methods are evaluated, including:

a. obtain additional qualification documentation,

b. perform additional environmental testing or analysis,

c. modify the equipment design or material selection,

d. further analyze the equipment's environment and/or its function to refine the adverse service conditions that pertain to the actual location and use of the component,

e. provide enclosure or shielding,

f. relocate in a less severe environmental zone,

g. include considerations of potential equipment degradation in the plant preventive maintenance program to provide a basis for extension of equipment qualified life,

h. establish a limited qualified life and a schedule for future replacement, or

i. select better qualified equipment as replacement.

Qualification programs for specific equipment, such as cables, valves, motors, and electrical penetrations, that are designed to conform with the requirements of daughter standards of IEEE-323, are acceptable for demonstrating compliance with the objectives of IEEE Std. 323. The daughter standards include IEEE Std. 383 for cables, IEEE Std. 382 for motor operated valves, IEEE Std. 334 for electric motors, and IEEE Std. 317 for electrical penetrations.

Dynamic qualification of equipment is performed in accordance with the requirements of IEEE Std. 344 and is addressed in separate documentation.

LILCO maintains primary responsibility for the Environmental Qualification Program for the Shoreham Nuclear Power Station. LILCO is also responsible for the performance of those organizations who have been assigned specific tasks, and imposes upon them the requirements of the LILCO Quality Assurance Program. The review of Balance of Plant (BOP) equipment has been assigned to the Stone & Webster Engineering Corp. (SWEC) and the review of Nuclear Steam Supply System (NSSS) equipment to EDS Nuclear Inc. Both these organizations have acceptable Quality Assurance Programs which meet the requirements of 10CFR50 Appendix B, and implementation of the respective programs specific to the assigned tasks is monitored by LILCO.

1.3 SHOREHAM POSITION

Shoreham Nuclear Power Station Class 1E electrical equipment is qualified as follows: | 2

a. Equipment purchased through May 23, 1980 is evaluated and considered environmentally qualified if it satisfies IEEE Standard 323-1971 and NUREG-0588 Category II positions as a minimum.

b. Equipment purchased after May 23, 1980 is evaluated and accepted to IEEE Standard 323-1974 and NUREG-0588 Category I positions, where possible. If such equipment is not available and cannot be made available, equipment is evaluated and considered environmentally qualified if it satisfies IEEE Standard 323-1971 and NUREG-0588, Category II positions as a minimum.

In some cases, the DOR Guidelines may be used to clarify the requirements of IEEE Standard 323 and NUREG-0588.

SECTION 2

DEFINITION OF SAFETY-RELATED ELECTRICAL EQUIPMENT

2.1 METHODOLOGY

The identification of equipment for environmental qualification requires the examination of the applicable project documents. These documents include flow diagrams, electrical one-line diagrams, logic diagrams, elementary diagrams, and instrument loop diagrams. Examination of these documents entails the following:

a. Review of electrical one-line diagrams to identify electrical equipment which distributes safety-related power to safety-related electrical systems.

b. Review of system flow diagrams, related system descriptions, and FSAR system function sections (including Chapter 15 - accident analysis and Appendix 3C - pipe failure outside primary containment) to identify the electrical equipment within each system, analyze and tabulate emergency events for each equipment item and the corresponding safety function required to mitigate the emergency event, define operating codes as referenced in Appendix E of NUREG-0588 and determine the amount of time required for performance of the operability requirement. | 2

c. Review of elementary and loop diagrams for each Class 1E electrical equipment item on marked-up flow diagrams to identify miscellaneous safety-related equipment required to control or monitor the equipment.

Equipment identified in this manner is listed on the Environmental Qualification Status Report (EQSR), and is cross-referenced against the Project Equipment System (PES) computer listing to confirm the identification and location of the equipment, and to aid in the location of applicable procurement documents.

To provide additional assurance that all required electrical equipment is identified, the plant Emergency Operating Procedures will be reviewed against the computerized report (EQSR).

2.2 SPECIFICATIONS WITH EQUIPMENT REQUIRING ENVIRONMENTAL QUALIFICATION

Using the procedure outlined in Section 2.1 and discussed in detail in the following sections, a list of BOP safety-related Class IE electrical equipment located in a potentially harsh evironment has been developed. The specifications listed below are applicable to this equipment.

SPECIFICATIONS FOR
SAFETY-RELATED ELECTRICAL
EQUIPMENT LOCATED IN A
HARSH ENVIRONMENT

Specification Number	Title
SH1-39	4,160 V Metal Clad Switchgear
SH1-62G	Centrifugal Pumps
SH1-88AD	Carbon Steel MOVs
SH1-88V	Carbon Steel MOVs
SH1-102	Centrifugal Fans
SH1-105	Charcoal Filter Trains
SH1-111	Ventilation Butterfly Valves
SH1-115	480 V Motor Control Centers
SH1-124	Miscellaneous AC and DC Distribution Panelboards
SH1-127	5 KV Power Cable
SH1-128	600 V Power Cable
SH1-129	300 V and 600 V Fire-Resistant Control and Instrument Cable
SH1-130	Instrument Cable
SH1-131	Thermocouple Extension Wire
SH1-134	Reactor Containment Electrical Penetrations
SH1-159	Electrical Work

Specification Number	Title
SH1-168	DC Motor Control Centers
SH1-172	Primary Containment Isolation Valves
SH1-175	Drywell Floor Relief Valves
SH1-197	Motor Operated Butterfly Valves
SH1-203	Manually Operated Diaphragm Valves - Carbon Steel
SH1-214	Manually Operated Stainless Steel Valves
SH1-232	Special Check Valves
SH1-235	Loop Level Pumps
SH1-248	Miscellaneous Transformers
SH1-253	Motor Operated Steel Valves
SH1-270	Axial Flow Fans
SH1-276	Unit Coolers
SH1-281	Bronze Valves
SH1-289	Hydrogen Recombiner Units
SH1-310	Electric Motor Operated Control Valves
SH1-318	Air Operated Control Valves
SH1-319	Automatic Temperature Control Systems for HVAC
SH1-332	Radiation Monitors
SH1-344	Primary Containment Gas Analyzers
SH1-348	Pressure and Temperature Switches
SH1-406	Electronic Transmitters and RTDs
SH1-406A	RTDs

Specification Number	Title
SH1-407	Level Switches
SH1-423	Air Operated Butterfly Valves ASME III
SH1-438	Automatic Transfer Switches
SH1-439	480 V Motor Generator Set
SH1-455	Low Capacitance Fire-Resistant Instrument Cable
SH1-456	Reactor Containment Electrical Penetrations
SH1-457	Leakage Return Pump
SH1-473	Level Transmitters
SH1-475	Post Accident Radiation Monitoring
SH1-484	Control & Instrument Cable
SH1-485	Thermocouple Extension Wire
S1554	Valcor Solenoid Valves

The equipment items within the NSSS scope of supply are included under Specification SH1-003.

2.3 MISCELLANEOUS COMPONENTS AND ACCESSORIES

The environmental qualification of miscellaneous electrical components and accessories is addressed in the same manner as the equipment which is identified from the review of project drawings. Examples of miscellaneous components include control stations, terminal lugs, splicing materials, and internal panel wire. These components are not identified with a specific equipment identification number but, instead, are documented on a separate list attached to the Environmental Qualification Status Report (EQSR) in Appendix F. Most of the miscellaneous electrical components and accessories have been procured under Specification SH1-159.

2.4 SYSTEMS REVIEWED

The systems reviewed to identify the equipment requiring environmental qualification are presented below. In parentheses alongside the systems are alternate names to describe the system or portions thereof.

SYSTEM	SYSTEM CODE
Nuclear Boiler (Includes Some Safeguards Activation)	1B21
Reactor Water Recirculation (Reactor Coolant)	1B31
Control Rod Drive Hydraulic Control	1C11
Standby Liquid Control	1C41
Neutron Monitoring	1C51
Reactor Plant Remote Shutdown	1C61
Reactor Protection	1C71
Process Radiation Monitoring	1D11
Area Radiation Monitoring	1D21
Residual Heat Removal (Includes Containment Spray)	1E11
Core Spray	1E21
MSIV Leakage Control	1E32
High Pressure Coolant Injection	1E41
Reactor Core Isolation Cooling	1E51
Radwaste	1G11
Reactor Water Cleanup	1G33
Fuel Pool Cooling and Cleanup	1G41
Main Control Room Panels	1H11
Local Panels and Racks	1H21
RBSVS & Control Room Chilled Water	1M50
Main Steam	1N11
Condensate and Feedwater	1N21
Miscellaneous Drains	1N23
Condensate Transfer and Storage	1P11
Demineralized & Makeup Water	1P21
Sample	1P33
Service Water	1P41
Reactor Building Closed Loop Cooling Water	1P42
Compressed Air	1P50
Metal Clad Switchgear	1R22
Unit Substations	1R23
Motor Control Centers	1R24
Power Cable & Wire	1R31
Control Cable & Wire	1R32
AC Control and Instrument Power	1R35
AC Uninterruptible Power	1R36
DC Instrument Power	1R41
Battery Power (125V D-C)	1R42
Diesel Emergency Power	1R43
Reactor Building Superstructure	1T22
Reactor Primary Containment	1T23
Primary Containment Inerting	1T24
Reactor Building Ventilation	1T41

Reactor Building Standby Ventilation (Standby Gas Treatment)	1T46
Primary Containment Cooling	1T47
Primary Containment Atmospheric Control (Combustible Gas Control)	1T48
Miscellaneous HVAC	1X41
Diesel Generator Ventilation	1X60
Control Room HVAC	1X61
Excess Flow Check Valves	1Z92
Post Accident Monitoring	1Z93
Post Accident Sampling	1Z96

(Emergency Condenser not applicable to Shoreham)

2.5 CORRELATION BETWEEN FSAR TABLE 3.2.1-1 AND EQR SECTION 2.4

The safety-related systems listed in FSAR Table 3.2.1-1 were addressed. A detailed correlation between the systems listed in Section 2.4 of the Environmental Qualification Report (EQR) and FSAR Table 3.2.1-1 is as follows:

Table 3.2.1-1 Item		Correlation With SWEC EQ Effort
I.	Reactor System	All equipment under this item is mechanical or structural - no electrical equipment to consider.
II.	Nuclear Boiler System	Addressed in 1B21 System Review
III.	Recirc. System	Addressed in 1B31 System Review
IV.	CRD Hydraulic System	Addressed in 1C11 System Review
V.	Standby Liquid Control System	Addressed in 1C41 System Review
VI.	Neutron Monitoring System	Addressed in 1C51 System Review
VII.	Reactor Protection System	Addressed in 1C71 System Review
VIII.	Fixed Process, Airborne, and Effluent Radiation Monitor	Addressed in 1D11 System Review
IX.	RHR System	Addressed in 1E11 System Review
X.	Core Spray System	Addressed in 1E21 System Review
XI.	HPCI System	Addressed in 1E41 System Review

Table 3.2.1-1 Item		Correlation With SWEC EQ Effort
XII.	RCIC System	
XIII.	Fuel Service Equip.	No equipment required for accident mitigation
XIV.	Reactor Vessel Service Equip.	No equipment required for accident mitigation
XV.	In-Vessel Service Equip.	No equipment required for accident in mitigation
XVI.	Refueling Equip.	No equipment required for accident mitigation
XVII.	Storage Equip.	No equipment required for accident mitigation
XVIII.	Radwaste System	Addressed in 1G11 System Review
XIX.	Reactor Water Cleanup System	Addressed in 1G33 System Review
XX.	Fuel Pool Cleanup Subsystem	Addressed in 1G41 System Review 2
XXI.	Fuel Pool Cooling Subsystem	Addressed in 1G41 System Review
XXII.	Control Room Panels	Addressed in 1H11 System Review
XXIII.	Local Panels	Addressed in 1H21 System Review
XXIV.	Offgas System	Not Required for accident mitigation - System is Q.A. Cat. II
XXV.	Service Water System	Addressed in 1P41 System Review
XXVI.	Compressed Air System	Addressed in 1P50 System Review
XXVII.	Onsite Power System	Addressed in 1R43, 1R22, 1R24, 1R35,1T23, 1R42, 1R31, 1R41, 1R36, 1R32, System Reviews

Table 3.2.1-1 Item		Correlation With SWEC EQ Effort
XXVIII.	Prim. Cont. Atm. Control System	Addressed in 1T24, 1T48 System Reviews
XXIX.	Reactor Building Standby Ventilation System	Addressed in 1T46 and 1M50 System
XXX.	Primary Containment Purge System	Addressed in 1T41 System Review
XXXI.	Power Conversion System	Addressed in the 1N11 and 1N23 System Reviews
XXXII.	Condensate Storage and Transfer System	Addressed in the 1P11 System Review
XXXIII.	Permanent Emergency Support Facilities	Consists of non-Class IE items-no equip. from these included
XXXIV.	MSIV Leakage Control System	Addressed in the 1E32 System Review
XXXV.	Miscellaneous Components	Equip. in this category is included within other system reviews (e.g., ECCS loop level pumps addressed in 1E21, 1E11 system reviews)
XXXVI.	RB Closed Loop Cooling Water System	Addressed in the 1P42 System Review
XXXVII.	Equipment and Floor Drainage Systems	Addressed in the 1G11 System Review
XXXVIII.	Misc. Vent. Systems	Addressed in the 1X41 System Review
XXXIX.	Area Rad. Monitoring System	Addressed in the 1D21 System Review
XL.	Leak Detection System	Equip. for this System belongs to several other systems and is included in the review of those systems

Table 3.2.1-1 Item		Correlation With SWEC EQ Effort
XLI.	Fire Protection	This is Q.A. Cat. II and not safety-related - no equipment included
XLII.	Civil Structures	No equip. in this category - all buildings
XLIII.	Primary Containment Structure	No equip. included - all structural
XLIV.	Plant Safety Parameter System	Equip. included in this category is contained within other system reviews
XLV.	Post Accident Sample System	Q.A. Cat. II System - No equip. included
XLVI.	Valve Position Indication	Included within each system review containing safety related valves (associated PNSs) 2
XLVII.	Accident Monitoring	Included within other system reviews where appropriate

2.6 SYSTEMS WITH EQUIPMENT HAVING CLASS IE FUNCTIONS

The following systems support each identified Class IE safety function through the operation of individual components or operation of the system as required.

Emergency Reactor Shutdown

Nuclear Boiler System (1B21)
Reactor Water Recirculation System (1B31)
Control Rod Drive System (1C11)
Reactor Protection System (1C71)
Process Radiation Monitoring System (1D11)
Residual Heat Removal System (1E11)
Reactor Primary Containment (1T23)
Auxiliary Power Systems
Battery and Distribution Systems

Containment Isolation

Nuclear Boiler System (1B21)
Reactor Water Recirculation System (1B31)
Control Rod Drive System (1C11)
Neutron Monitoring System (1C51)

Reactor Protection System (1C71)
Process Radiation Monitoring System (1D11)
Residual Heat Removal System (1E11)
Core Spray System (1E21)
High Pressure Coolant Injection System (1E41)
Reactor Core Isolation Cooling System (1E51)
Radwaste System (1G11)
Reactor Water Cleanup System (1G33)
Fuel Pool Cooling and Cleanup System (1G41)
RBSVS & Control Room Chilled Water System (1M50)
Reactor Bldg. Closed Loop Cooling Water System (1P42)
Compressed Air System (1P50)
Diesel Emergency Power System (1R43)
Reactor Primary Containment (1T23)
Primary Containment Inerting System (1T24)
Reactor Bldg. Standby Ventilation System (1T46)
Primary Containment Atmospheric Control System (1T48)
Miscellaneous HVAC (1X41)
Diesel Generator Ventilation System (1X60)
Control Room HVAC (1X61)
Auxiliary Power Systems
Battery and Distribution Systems

Reactor Core Cooling

2 Nuclear Boiler System (1B21)
Reactor Water Recirculation System (1B31)
Residual Heat Rmoval System (1E11)
Core Spray System (1E21)
High Pressure Coolant Injection System (1E41)
RBSVS & Control Room Chilled Water System (1M50)
Demineralized and Make-Up Water System (1P21)
Service Water System (1P41)
Reactor Bldg. Closed Loop Cooling Water System (1P42)
Compressed Air System (1P50)
Diesel Emergency Power System (1R43)
Reactor Primary Containment (1T23)
Reactor Bldg. Standby Ventilation System (1T46)
Diesel Generator Ventilation System (1X60)
Miscellaneous HVAC (1X41)
Control Room HVAC (1X61)
Auxiliary Power Systems
Battery and Distribution Systems

Containment Heat Removal

Nuclear Boiler System (1B21)
Residual Heat Removal System (1E11)
RBSVS & Control Room Cooling Water System (1M50)
Service Water System (1P41)
Diesel Emergency Power System (1R43)
Reactor Primary Containment (1T23)
Reactor Bldg. Standby Ventilation System (1T46)

Miscellaneous HVAC (1X41)
Control Room HVAC (1X61)
Diesel Generator Ventilation System (1X60)
Post Accident Monitoring System (1Z93)
Auxiliary Power Systems
Battery and Distribution Systems

Reactor Heat Removal

Nuclear Boiler System (1B21)
Reactor Water Recirculation System (1B31)
Residual Heat Removal System (1E11)
Core Spray System (1E21)
RBSVS & Control Room Cooling Water System (1M50)
Service Water System (1P41)
Reactor Bldg. Closed Loop Cooling Water System
Compressed Air System (1P50)
Diesel Emergency Power System (1R43)
Reactor Primary Containment (1T23)
Reactor Bldg. Standby Ventilation System (1T46)
Miscellaneous HVAC (1X41)
Diesel Generator Ventilation System (1X60)
Control Room HVAC (1X61)
Post Accident Monitoring System (1Z93)
Auxiliary Power Systems
Battery and Distribution Systems

Prevention of Release of Radioactive Material to the Environment

Nuclear Boiler System (1B21)
Process Radiation Monitoring System (1D11)
Area Radiation Monitoring System (1D21)
Residual Heat Removal System (1E11)
MSIV Leakage Control System (1E32)
High Pressure Coolant Injection System (1E41)
Reactor Core Isolation Cooling System (1E51)
Radwaste System (1G11)
Reactor Water Cleanup System (1G33)
Fuel Pool Cooling and Cleanup System (1G41)
RBSVS & Control Room Chilled Water System (1M50)
Main Steam System (1N11)
Miscellaneous Drains (1N23)
Sample System (1P33)
Service Water System (1P41)
Reactor Bldg. Closed Loop Cooling Water System (1P42)
Diesel Emergency Power System (1R43)
Reactor Primary Containment (1T23)
Primary Containment Inerting System (1T24)
Reactor Bldg. Standby Ventilation System (1T46)
Primary Containment Atmospheric Control System (1T48)
Miscellaneous HVAC (1X41)
Diesel Generator Ventilation System (1X60)

Control Room HVAC (1X61)
Auxiliary Power Systems
Battery Power and Distribution Systems

The Auxiliary Power and Battery Power and Distribution systems are comprised of the following. Not all of these systems are needed for each safety function.

Metal-Clad Switchgear (1R22)
Unit Substations (1R23)
Motor Control Centers (1R24)
Power Cable & Wire (1R31)
Control Cable & Wire (1R32)
AC Control and Instrument Power (1R35)
DC Instrument Power (1R41)
Battery Power (125V-DC) (1R42)

The following systems were not included in the Safety Function listing because they do not include any electrical equipment. They are comprised of structural materials or supporting racks and panels for electrical equipment.

Main Control Room Panels (1H11)
Local Panels and Racks (1H21)
Reactor Bldg. Superstructure (1T22)

The following systems were not included in the Class IE Safety Function listing because they do not perform any safety function during accident mitigation. Some of the systems are not safety related, but may have components which are connected to safety power.

Standby Liquid Control System (1C41)
Remote Shutdown System (1C61)
Condensate and Feedwater Systems (1N21)
Condensate Transfer and Storage System (1P11)
AC Uninterruptible Power (1R36)
Reactor Bldg. Normal Ventilation System (1T41)
Primary Containment Cooling System (1T47)
Post Accident Sampling System (1Z96)
Excess Flow Check Valves (1Z92)

SECTION 3

ENVIRONMENT APPLICABLE UNDER ACCIDENT CONDITIONS

3.1 METHODOLOGY

In order to determine what safety-related electrical equipment is located in a harsh environment, it is necessary to establish the environmental conditions experienced in the areas of the plant in which the equipment is located.

Environmental profiles are determined for defined spatial zones both inside and outside the primary containment. Radiation source terms are developed in accordance with the requirements of NUREG-0737. Temperature, pressure, and humidity data are based upon applicable sections of the FSAR including Appendix 3C (Pipe Failure Outside Primary Containment). The following environmental parameters are included in the analyses of equipment environmental qualification:

a. Normal Environment

   1. Radiation - 40 year integrated dose

   2. Temperature - expected range

   3. Humidity - expected range

   4. Pressure - expected range

b. Postulated Accident Environment

   1. Radiation - radiation dose received from the accident environment for the time period of interest.

   2. Temperature - temperature expressed as a function of time for the duration of the accident transient.

   3. Humidity - highest relative humidity levels during the accident transient, conservatively assumed at 100 percent for both the primary and secondary containments of the Reactor Building.

   4. Pressure - maximum levels postulated for the accident transient.

3.2 ENVIRONMENTAL ZONE MAPS

Environmental zone maps illustrating the harsh environmental spatial zones are shown in Appendix C. The harsh environmental

service conditions experienced by each zone are given in Appendix D.

3.3 SERVICE CONDITIONS

The environmental parameters for each zone are determined for the normal and postulated accident service conditions. These parameters are the specific qualification requirements for the equipment to be qualified. The normal and accident profiles (temperature, pressure, and radiation) for each zone are illustrated as a function of time in Appendix D.

3.3.1 Normal Service Conditions

Normal service conditions are the environmental conditions in each zone which are maintained during normal plant operations. This includes all levels of power generation, start-up, hot standby, shutdown, and refueling. For equipment qualification, normal service conditions are assumed continuous over the 40 year life of the plant. Pressure, temperature, and humidity values are based on normally operating HVAC systems and are shown on Table D-1. Radiation values are based on normal radionuclide inventory and are cumulative during the 40 year plant life.

3.3.2 Postulated Accident Conditions

Accident conditions generate the most severe environmental parameters for the environmental qualification of equipment. Values of temperature, pressure, humidity, and radiation are postulated to occur at the end of the 40 year plant life. Specific environmental parameters are determined by investigating the postulated accident conditions discussed below:

3.3.2.1 Loss of Coolant Accident

a. The method of analysis for pressure and temperature response for Loss of Coolant Accident (LOCA) within the primary containment is described in Section 6.2 of the FSAR.

b. The pressure and temperature for the secondary containment are defined in Appendix D as taken from Section 6.2.3 of the FSAR. The pressure transient in the secondary containment due to a LOCA is also shown in Figure D-43 as taken from FSAR Figure 6.2.3-2.

c. The Turbine and Control Buildings do not experience extremes of temperature and/or pressure due to LOCA within the Reactor Building.

3.3.2.2 Pipe Break Outside Containment

a. Short-Term Response to High Energy Line Breaks (HELB)

High energy line breaks have been selected and analyzed in accordance with the specific criteria outlined in Appendix 3C of the FSAR. Achieving cold shutdown during a HELB event is discussed in FSAR Appendix 3C together with the required systems and postulated conditions. The analysis described in Appendix E, Section E.2 provides further detail of particular HELBs and their effect upon additional areas of the plant through the use of more refined temperature zones.

b. Short-term Response to Moderate Energy Line Cracks (MELB)

The following moderate energy line failure is considered and represents the limiting design condition for temperature effects due to MELBs: Twenty-four inch RHR pipe crack in the Reactor Building, elevation 40 ft. Calculations are described in Appendix E, Section E3. This failure and other MELBs are listed in Appendix 3C of the FSAR and are analyzed with the applicable criteria of that section.

c. Long-Term Response

The long-term response analysis for all breaks is a determination of the elapsed time from the moment the break occurs to the time the building environment returns to the initial starting temperature (generally 104°F).

The Reactor Building secondary containment is considered one volume.

The amount of energy in BTU's discharged into the secondary containment by the break is determined based on a reference of 104°F.

Heat is removed from the building by one of two trains of RBSVS coolers and by air exchange with the atmosphere.

The elapsed time is calculated by dividing the total energy discharged by the sum of the RBSVS cooler and atmospheric air exchange heat removal rates.

No credit is taken for heat sinks and the entire secondary containment is assumed to cool down uniformly.

d. Summary of Conservatisms Used in the Analyses

1. Frictionless flow is assumed for blowdowns.

2. No credit is taken for air coolers during the short-term analyses of Section a.

3. No automatic closure signals for isolation valves occur until the entire zone rises to the setpoint temperature.

4. Metal heat sinks are neglected.

5. The Reactor Building remains isolated to mass and energy transfer out of the building until the sheet metal roof panels relieve during the short-term analyses.

2 6. No credit is taken for reactor building sump pumps.

7. No credit is taken for passive heat sinks in the long-term analyses.

3.3.2.3 Radiation

The accident radiation sources and integrated radiation doses are derived as discussed in Appendix E, Section E.4 in accordance with NUREG 0737, Section II. B.2.

3.3.2.4 Sprays

The only equipment subject to spray is that equipment within the primary containment during the post accident containment cooling mode of RHR (refer to FSAR Section 6.2). The design of this system causes a uniform mist within the containment, which is bounded by the 100 percent humidity/saturated steam conditions specified for the qualification of equipment. Refer to Appendix 3C of the FSAR for the detailed analysis of HELB and MELB fluid effects outside the primary containment.

The annular volume zones within the drywell and wetwell, which are subject to containment spray impingement considered significant, have been calculated as described below.

2 An analysis was performed to evaluate the effects of containment spray due to the drywell and wetwell spray nozzles. The impinging effect is considered to be significant only when the spray droplet velocity has a horizontal component. All the spray nozzles are angled either horizontally or diagonally upwards (45 degree angle) with reference to the headers. Thus, the upward vertical velocity is always less than the horizontal velocity. The spray zone boundary is defined as the location where the horizontal component becomes less than the downward

vertical component with some margin. The calculations to determine the zone volumes with significant horizontal spray velocity are based on the spray flow, patterns provided by SPRACO, the nozzle manufacturer, for the type of nozzles installed, the spraying angles and the pressure differentials of the nozzle heads. These zones were superimposed for the different headers and spraying angles to arrive at a conservative impingement volume. 2

The equipment exposed to spray with only a downward vertical velocity component will not be subject to the impingement effect due to the small drop particle sizes, typically of the order of 1 mm diameter, in a 100 percent assumed post accident humidity environment. Due to their very small mass, these droplets carry an insignificant kinetic energy and therefore, have no adverse impingement effect outside the volumes where their horizontal velocities are significant.

The area outside the spray impingement zone is assumed to be equivalent to 100 percent humidity due to the small size of the droplets and gravity as the only driving force. Based on these assumptions, qualification of equipment in the following areas requires consideration of the spray impingement effect:

Drywell: An annular volume from 10' above to 10' 11" below elevation 109' 9" (elevation 98' to 120') and radially 33' outward from the location of nozzles on elevation 109' 9".

Wetwell: An annular volume from elevation 41' to 54' (2' 1" above and 10'2" below elevation 51'9") and radially 17'2" outward from the location of nozzles on elevation 51'9".

3.3.2.5 Submergence 2

Equipment required for accident mitigation is not subject to submergence in the Shoreham design. A detailed evaluation of possible flooding effects outside the primary containment due to HELBs and MELBs is presented in Appendix 3C of the FSAR.

The following maximum transient water levels are applicable to the Shoreham primary containment:

Wetwell - Elevation 47 ft. above sea level for two seconds, based on pool swell analysis, for large break LOCA.

- Elevation 4 ft. above normal water level, based on pool swell analysis, for small break LOCA. 2

Drywell - 6 in. above drywell floor based on height of downcomer openings.

With one exception, equipment within these levels is not required for accident mitigation and any postulated failure of this

equipment will not affect accident mitigating equipment nor will it mislead the operator.

2 The suppression pool temperature RTD heads are located in the wetwell 4 ft. 2 in. above normal water level (elevation 26 ft. 6 in. above sea level) and 3 ft. 8 in. above the highest water level (27 ft. above sea level) allowed during normal operation. Thus they could be temporarily submerged during a pool swell transient. However, the submergence would be of very short duration and the NEMA 4 (watertight) enclosure is considered adequate to withstand the transient.

3.4 METHODOLOGY FOR AGING CONSIDERATIONS

3.4.1 Introduction

The intent of aging in the qualification process is to bring the tested equipment to the equivalent of its "end of life" condition prior to subjecting it to the conditions of the Design Basis Event (DBE). The time period corresponding to this "end of life" condition becomes the "qualified life" of the tested equipment when the equipment demonstrates operability when subjected to its required service conditions.

The aging mechanisms that equipment are exposed to during qualified life are: radiation, cycling, and heat.

3.4.2 Radiation

The determination of qualified life includes assurance that the equipment was radiation aged to an amount equivalent to its 40 year plus accident integrated radiation dose. The preferred method for this type of qualification is type-testing. However, in some cases, type-testing was insufficient to qualify the device for its required radiation dose. In these cases, an analysis of the materials used in the tested equipment has been performed to determine the sensitivity of these materials (based on previous testing experience) to its applicable radiation environment. The radiation tolerence of the most sensitive material was assumed to be the radiation tolerance of the entire tested equipment.

The present state-of-the-art does not allow for a quantitative evaluation of synergistic effects. However, in consideration of potential synergistic effects, guidelines used when performing radiation qualification by analysis are:

2 a. Equipment in the Secondary Containment required to operate in order to mitigate a LOCA will not be exposed to combined harsh environments. During a LOCA, the postulated degraded core will cause higher, radiation doses through recirculating fluids, but the harsh steam environment is confined to primary containment.

Therefore, this equipment would be exposed to a single environmental stress only and would not be subject to synergistic effects which might result from combined environmental stresses.

b. Equipment in the Secondary Containment required to operate in order to mitigate a pipe break outside primary containment could be exposed to a high temperature steam environment, but core degradation, and the associated high radiation doses, are not postulated for this accident. The relatively low radiation doses postulated for this accident are at least an order of magnitude below the threshold radiation tolerance of common organic polymers. This margin accounts for any currently unknown synergistic effects which might be present. 2

c. Radiation qualification by analysis of materials for functional threshold dose levels is not used as sole radiation qualification for equipment in the Primary Containment.

d. Radiation qualification by material analysis is limited to equipment that does not contain sensitive electronic subcomponents such as transistors and integrated circuit solid state components.

3.4.3 Cycle Aging

For devices which have moving parts or function in some repeatable manner, the devices are cycle aged for the number of postulated operations that can be expected during the installed life. In the qualification test process, cycle aging is typically performed prior to initiation of the thermal and design basis accident tests.

3.4.4 Thermal Aging

Thermal aging is the deterioration of equipment components when subjected to elevated temperatures over a period of time. During qualification testing, this process is intended to produce the actual installed end-of-life condition of the equipment prior to application of the accident environment. In the case of thermal aging, analysis may be used to augment actual type testing.

One of the methods used in consideration of thermal aging is the determination that the materials in the equipment are not sensitive to thermal degradation. This determination may include either recognizing that the materials are metallic or utilizing the Arrhenius parameters for each material to determine an "expected life."

Expected life can be defined as the amount of time a material can be expected to retain a certain property in a purely thermal environment without the imposition of other aging mechanisms. When this time is much greater than the 40 yr plant life, it can be concluded that thermal degradation is insignificant in relation to other harsh environmental effects and the DBE, and thus the component may be exempted from the artificial thermal pre-aging.

When the expected life does not greatly exceed the 40 year plant life, accelerated thermal aging may be included in the qualification test program. Arrhenius parameters are utilized to determine the time and temperature of the accelerated aging required to bring the equipment to an equivalent age of 40 years at normal service temperatures. When the accelerated aging parameters are less than those required for a 40-year equivalent, a determination is made of the actual equivalent. This equivalent age is the "qualified life" of the equipment, if it successfully completes other applicable aging tests and the accident simulation.

3.4.5 Arrhenius Methodology

Section 4.4 of NUREG 0588 and Paragraph 5.2.4 of the DOR guidelines defines Arrhenius techniques as an acceptable method for aging determinations. This methodology allows the relative thermal life of nonmetallic materials to be determined by the extrapolation of an Arrhenius plot of the natural log of life as a function of reciprocal absolute temperature for that particular material.

For many nonmetallic materials, it is known that the degradation process can be defined by a single temperature-dependent reaction that follows the Arrhenius equation:

$$k = A \exp\left(-\left(E_a / K_B T\right)\right) \qquad (1)$$

where:

k = reaction rate

A = frequency factor

exp = exponent to base e

E_a = activation energy

K_B = Boltzmann's Constant

T = absolute temperature

It is further noted, that for many reactions, the activation energy can be considered to be constant over the applicable

temperature range. That is, that a single aging mechanism or reaction, is controlling the rate of thermal degradation.

Equation (1) can be transformed into a form which yields a time compression factor.

The equation is:

$$t_1/t_2 = \exp\left(\left(E_a/K_B\right)\left(1/T_1 - 1/T_2\right)\right) \qquad (2)$$

where:

t_1 = accelerated aging time at temperature T_1

t_2 = normal service time at temperature T_2

exp = exponent to base e

E_a = activation energy (eV)

K_B = Boltzmann's Constant (8.617×10^{-5} eV/°K)

T_1 = accelerated aging temperature (°K)

T_2 = normal service temperature (°K)

It is this equation which is used to provide a qualified life of devices at T_2 (normal service temperatures) when the activation energy of the most temperature sensitive material in the device can be determined by material textbook references or actual type testing.

3.4.6 10°C Rule Methodology

The qualified life for certain equipment was determined by the 10°C rule, rather than Arrhenius techniques. The 10°C rule (each 10°C rise shortens life by one-half) was the state of the art for aging prior to the development of Arrhenius techniques. Where the 10°C rule was used as the qualification basis, the results are verified by obtaining activation energies from published data and calculating service life via the Arrhenius method as discussed above or by demonstrating that application of the 10°C rule yields a more conservative qualified life than the Arrhenius methodology for the equipment involved.

3.5 MARGINS

The analyses used to determine environmental parameters for normal and accident service conditions include various conservative assumptions as described previously. Therefore, the postulated values of pressure, temperature, humidity, and radiation for each environmental zone are in excess of the values that would be realistically expected for the conditions analyzed.

Equipment which is required to operate must be qualified to an environmental profile which envelopes the postulated profile and results in a supplemental margin. In addition, equipment is qualified for time periods in excess of that required to provide the equipment's safety function. The operability time requirement listed in the EQSR includes a margin of at least one hour or 10 percent, whichever is greater, in excess of the time duration required by the accident analyses.

SECTION 4

DETERMINATION OF QUALIFICATION STATUS

4.1 EQUIPMENT STATUS

The qualification status of safety-related electrical equipment located in harsh environments is listed in the attached computer listing (EQ Status Report) in Appendix F. Appendix G addresses the equipment with deficient qualification documentation, along with resolution plans and, if needed, justification for interim operation.

4.2 METHODOLOGY FOR EQUIPMENT QUALIFICATION

The environmental qualification documents for the equipment are typically obtained for engineering evaluation from equipment vendors, equipment manufacturers, and/or testing facilities. These documents, in the form of qualification procedures, reports, and supplementary information, are evaluated in accordance with NUREG-0588, IEEE Std. 323, and the associated daughter standards included in Section 6. Review of these documents includes assurance that they are technically adequate and conform to the environmental qualification requirements of the applicable emergency conditions, operability times, and service conditions. 2

Each equipment item is assigned an operability code in accordance with the categories discussed in Appendix E of NUREG-0588, and the qualification entails the following:

a. Equipment assigned an operability code "A" must have acceptable documentation which demonstrates that the equipment performs its required safety function(s) in the environment dictated by the zone in which the equipment is located.

b. Equipment assigned an operability code "B" does not have an active safety function. Essentially, "B" coded equipment is the equipment identified as connected to Category 1E power systems but not required to operate during the postulated accident condition. Therefore, this equipment is evaluated to ensure that the accident exposure does not result in any equipment failure which would alter the state of the 1E power system.

c. Equipment assigned an operability code "C" does not have a safety function and does not fail in any manner that would affect the safe shutdown of the plant. This equipment is not included in this report unless determined to be operability code "A" or "B" for a time less than the 180 day post accident duration and

operability code "C" for the remaining duration of the accident.

When this equipment operability code is determined, the length of time (operability time) into an accident during which the equipment must function or must not fail is also ascertained. The designation of this operability time is based on:

a. The system operating requirements for accident mitigation.

b. The function of each required equipment item in the system during and after accident mitigation.

2 Equipment is designated to be qualified for a maximum of 180 day post accident duration. Equipment identified as operability code "A" for less than 180 days is designated operability code "B" for the remainder of the accident duration. However, if, at some time during the accident duration, it is determined that no postulated failure will be detrimental to the safe shutdown of the plant, an operability time of less than 180 days may be designated.

2 The 180 day post accident period was chosen as a conservative baseline for data gathering and evaluation. The NSSS Design Specification for BWR Equipment Environmental Interface Data indicates that the maximum environmental envelope for temperature, pressure and humidity is 100 days for the long term basis, which is consistent with FSAR Table 3.11.1-1. The environmental parameters generally return to within normal limits in a relative short period (e.g., 5 days for drywell temperature) following a postulated accident, except for the radiation dose which is cumulative and does not increase significantly beyond 180 days.

The methods of qualifying equipment are testing and analysis. Testing is the principal method of qualification used in this program. The evaluation of equipment testing includes the following considerations:

a. Acceptance criteria are established prior to the evaluation of test reports.

b. The environmental profiles for the applicable accident conditions and zones are examined for comparison to the environment simulated in the test report.

c. Continuous or discrete monitoring results are reviewed where relevant.

d. Margins are verified for the environmental parameters.

e. Documentation is reviewed to ensure that adequate information with respect to the equipment performing its required safety functions during the postulated service conditions is presented in a format that is verifiable in an independent audit.

For cases where test documentation is unavailable or incomplete, the services of reputable independent engineering testing laboratories or engineering consulting firms are contracted. These testing facilities or engineering consultants are selected based on their cognizance of the applicable standards and their experience in environmental equipment qualification. Qualification documentation may then be upgraded and reevaluated based on additional test information, retesting, or analysis based on adequate data using acceptable engineering models.

4.3 ENVIRONMENTAL QUALIFICATION DOCUMENTS

As each qualification document is reviewed and assessed, a "Test Report Number" is assigned. This test report identification is prefixed with the letters "TR-" and suffixed with the digits of the equipment's procurement specification identification to facilitate future information retrieval. These digits of the specification identification are also used to identify the other forms of documentation used in the environmental qualification (EQ) review process. When one or more components or groups of components are addressed under one specification, additional digits are added to the identification code.

The actual review of the equipment qualification reports is documented on the Environmental Qualification Report Evaluation Form (EQREF), described more fully in Appendix A. This document identifies the equipment by system, vendor, manufacturer, and model number, while providing a review format that addresses the applicable zone service conditions as required per NUREG-0588. Upon completion of the qualification document review, final comments are recorded on the EQREF, including justification for EQ acceptance, recommendations to rectify qualification document deficiencies, and limitations or conditions required in order to preserve qualification, as applicable.

The results of the EQREF review are summarized on the Environmental Qualification Summary Sheet (EQSS), described in more detail in Appendix B. Information including equipment description, IEEE Standards referenced, test sequence, environmental zones, and test parameters as described in the qualification report(s) is entered on this document. The test parameters recorded on the EQSS are compared to the required zone parameters for adequacy. Any discrepancies are noted on the applicable EQREF. A separate EQSS is generated for each specification or group of devices. Documentation packages, which include the qualification reports, EQREF and EQSS, are 2

transmitted to LILCO and incorporated into the Shoreham permanent record file.

4.4 EQUIPMENT QUALIFICATION ACCEPTANCE CRITERIA

The information collected on the EQSS and EQSR provides the EQ status of each Class 1E electrical equipment. The equipment is considered qualified if the following requirements are met:

a. Acceptable documentation to all applicable referenced requirements.

b. Environmental tests and/or analyses are performed and meet all applicable referenced requirements for the postulated conditions to which the equipment is subjected.

c. Acceptable performance characteristics in an environment as severe as the postulated zone environment are demonstrated.

d. A qualified life is determined and supported by qualification documents.

Equipment that does not satisfy the above criteria is not considered fully qualified and is addressed in Appendix G. The resolution of EQ deficiencies may include one or more of the alternatives listed in Section 1.1.

4.5 EQUIPMENT LIST UPDATE

As additional environmental qualification (EQ) reports and/or procedures are obtained, the appropriate EQ review and evaluation documents are revised to reflect changes in the qualification status of each piece of equipment. Evaluation of these documents is performed as previously described in this text. If changes in the qualification information occur, the appropriate EQSS is revised with a revision number to indicate the revision. Each revised EQSS supersedes, in entirety, all previous EQSSs with the same number. New data are entered into the master list (EQSR) to indicate changes and additional qualification documentation is added to the Shoreham records file as the changes are implemented.

4.6 ENVIRONMENTAL QUALIFICATION STATUS REPORT (EQSR)

The EQSR is a computerized report which summarizes the qualification status of each equipment item. The current issue of the EQSR is included in Appendix F.

SECTION 5

SURVEILLANCE AND MAINTENANCE

The Shoreham surveillance and maintenance programs include documented program plans, procedures, and results to assure that the safety-related equipment is maintained in a state of readiness and operability so that it will perform its intended safety function upon demand.

The results of the Environmental Qualification Program are directly input to the Shoreham maintenance and spare parts programs to ensure timely device or parts replacement as needed due to identified qualified life limitations and to ensure timely performance of any other identified maintenance activities required to preserve the applicability of the qualification. 2

The Shoreham surveillance and maintenance program includes at this time information supplied by the equipment manufacturers and vendors regarding required equipment maintenance actions and their frequency. This program is easily expandable and will incorporate the pertinent information contained in the equipment environmental qualification document packages.

The equipment qualification packages will be reviewed by the technical support group and sub-packages of relevant information culled and distribution to station Maintenance and Instrumentation & Controls sections as appropriate. Upon receipt of these packages the responsible groups will arrange for any new information to become part of the computerized program for plant maintenance which will alert them to upcoming maintenance requirements on a timely basis.

2

Reporting of equipment failures will be performed by the LILCO Nuclear Operations Support Division (NOSD) using the NPRDS (Nuclear Plant Reliability Data System) program administered by INPO (Institute of Nuclear Power Operations). During 1981 plans were completed to institute the data collection and reporting effort. These plans are now being carried out in a manner consistent with the turnover of construction and startup records and scheduled beginning of plant operations. A procedure has been approved outlining the responsibilities for the accurate and uninterrupted flow of data from Shoreham Nuclear Power Station to the NPRDS.

The conceptual approach to using this data to improve plant reliability and safety envisions using the recent availability of remote accessing the NPRDS data base. LILCO has participated in the NPRDS Report Writer User Training and has obtained the logon and password capabilities. Specific data requirements may be identified by LILCO Office of Nuclear personnel including Shoreham Nuclear Power Station, Nuclear Engineering Department,

Nuclear Operations Support Department as well as other Company departments and INPO through its Nuclear Notepad, SEE-IN, and SOER programs. Additional data needs may be brought to LILCO's attention by vendors and the NRC via LER's and other correspondence.

The Shoreham Spare Parts Program was developed consistent with the industry position paper provided to the NRC under a letter dated July 2, 1981 from Mr. Stephen H. Howell, Chairman, AIF Committee on Power Plant Design, Construction and Operation to Mr. Harold R. Denton. A summary of the equipment qualification aspects of Shoreham spare parts procurement follows.

Definitions of terms relating to this discussion are:

Equipment - A manufactured product.

Device - A piece of equipment that has been qualified as a unit by test and/or analysis.

Component - Items which are assembled to form a device.

Assembly - Two or more components sharing a common mounting or support structure.

2 Module - Any assembly of interconnected components which constitutes an identifiable unit. A module can be removed and replaced as a unit. It has defineable performance characteristics which permit it to be tested as a unit.

Each unit equipment assembly which is qualified by test and/or analysis as a unit can be considered a "device" and each of the items making up the "device" can be considered "components". Some of the components may be arranged in the form of a module such that maintenance can be performed by replacing them with a new or repaired module.

For those Class IE equipment items upon which maintenance activities are performed by the replacement of complete devices, NUREG 0588 Category I qualified devices are procured provided they are available, conform to the original equipment's applicable requirements (e.g., they do not require a modification of the station safety systems such as changes in mounting, wiring, piping, etc.). create no human factors complications (e.g., they do not require changes in procedures, training, skill levels, assigned personnel, etc., or introduce a one-of-a-kind application), and are expected to exhibit equal or superior overall performance. Sound reasons for not procuring replacement devices to NUREG 0588 Category I therefore include:

1. Unavailability

2. Necessity of system modification

3. Necessity of complicating human/equipment interface

4. Inferior overall performance.

Alternatives are:

1. Replacement devices qualified to NUREG 0588 Category II

2. Best available (based on EQSR status)

At the module or component level for complex devices, the primary consideration is to maintain the design and functional integrity of the "qualified unit". The individual components or modules do not have a separate qualification status. If the components manufactured according to QA procedures, specifications and/or special reviewed procedures were used in the assembly of the equipment which was subsequently qualified, then in-kind replacement parts which meet the same requirements; i.e., "equal to or better than", assure the continued qualification status of the maintained equipment. The principle followed is not to jeopardize the integrity of the "unit". 2

The Shoreham Spare Parts Procurement Procedure will be amended to more specifically include equipment environmental qualification considerations.

ENVIRONMENTAL QUALIFICATION REPORT EVALUATION FORM
FOR SHOREHAM NUCLEAR POWER STATION - UNIT 1

NRC NUREG-0588 Category I* and II Positions TR- _____

(Please type or print)

EQUIPMENT IDENTIFICATION

Equipment Type: _____

Vendor : _____

Specification No.: _____

Purchase(P.O.)No.: _____

Manufacturer: _____

Model No.: _____

Serial No.: _____

QUALIFICATION DOCUMENTATION

Title: _____

Author(Organization): _____

Identification No.: _____

Date: _____

Qualification Method: _____

REVIEWER'S CONCLUSION

Acceptable? YES NO

If YES, any limitation, exceptions, special conditions: _____

If NO, what specific deficiencies could be corrected in order to achieve acceptability? _____

REVIEWED BY: _____ _____ VERIFIED BY: _____ _____
Signature Date Signature Date

(*) Applicable to NUREG Category 1 positions only.

TEST FACILITY

Name: _____

City: _____

State: _____

APPLICABLE ZONE NUMBERS

Rad. Zones: _____

Temp./Pres. Zones: _____

1. TEST CONDITIONS

   See Environmental Qualification Summary Sheet No.: _____

2.	Does the model number of the component(s) tested coincide with the model number of the component(s) being reviewed?	YES	NO	
	A. If not, is adequate justification provided showing that the component(s) tested adequately represent(s) component(s) being reviewed?	YES	NO	N/A
3.	Does the Test Program Outline include:			
	A. Test Objectives	YES	NO	
	B. Test Sample Description	YES	NO	
	C. Number of units to be tested	YES	NO	
	D. Mounting requirements	YES	NO	N/A
	1. If yes, was the equipment being tested mounted in a manner that simulates its expected installation when in actual use?	YES	NO	N/A
	2. If no, has justification been provided showing that equipment performance is not altered by the manner or position in which it is mounted?	YES	NO	N/A
	E. Aging Simulation Procedure	YES	NO	
	F. Parameters to be be measured	YES	NO	
	1. Accuracy	YES	NO	N/A
	2. Response time	YES	NO	N/A
	G. The range, sequence, and combination of environments to simulate DBA conditions?	YES	NO	N/A
	H. Acceptance Criteria	YES	NO	
	1. Are the acceptance criteria adequate to verify the ability of the equipment to perform its required safety function?	YES	NO	N/A
4.	Are the tests methods in accordance with the following:			
	A. Does the test demonstrate that the equipment satisfies the acceptance criteria? (This should be demonstrated for all phases of testing)	YES	NO	
	B. Do the parameters in the qualification documentation at least meet accident requirements?	YES	NO	
	1. If not, are deviations justified?	YES	NO	N/A

C. Have adequate margins been allowed in accordance with NUREG-0588, Section 3 (Cat. I or II)? (Circle appropriate Category)	YES	NO	
D. If the qualification uses analysis, are the basis, supporting data, and method for analysis included?	YES	NO	N/A
*E. Is test sequence justified as per IEEE 323-1974 Section 6.3.2 and NUREG-0588 Category I position?	YES	NO	
F. Is the test sequence justified as per IEEE 323-1971 and NUREG-0588 Category II position?	YES	NO	
G. Were performance characteristics verified before, during, and after testing?	YES	NO	
H. Were temperature readings obtained by thermocouple location on, or as near as practical to the surface of the component?	YES	NO	
1. If not, is adequate justification provided showing that the component was exposed to the specified temperature environment?	YES	NO	N/A
5. Does the test report address thermal aging?	YES	NO	
A. Was a qualified life and/or replacement schedule established?	YES	NO	
*B. Was test sample thermally aged by an acceptable method?	YES	NO	
*C. Did thermal aging simulate design life at normal conditions (temperature)?	YES	NO	
*D. Was test sample operated to simulate expected mechanical wear over design life? (electromechanical equipment only)	YES	NO	N/A
*E. Was test sample irradiated to the normal service life dosage before seismic and DBA testing?	YES	NO	
*F. Was test sample irradiated to the combined normal service life dosage plus DBA dosage before and during DBA testing?	YES	NO	
6. Was equipment inspected after type testing?	YES	NO	
A. Are the results of the inspection recorded?	YES	NO	N/A
7. Were any failures identified during environmental qualifications?	YES	NO	
A. Are failures justified?	YES	NO	N/A
8. Is the test facility (set-up) described?	YES	NO	N/A
9. Is a description of the instrumentation provided?	YES	NO	
10. Are test conclusions consistent with test objectives and supported by test results?	YES	NO	

11. A. Operability time demonstrated _____

B. Accuracy demonstrated _____

C. Response time demonstrated _____

12. Does the report have an approval signature? YES NO N/A

13. Is this report acceptable? YES NO

COMMENTS: _____

RECOMMENDATIONS _____

J.O. No. 11600.02 Attachment to EQREF No. _____

REQUIRED SERVICE CONDITIONS
SHOREHAM NUCLEAR POWER STATION - UNIT 1

Equipment ID(s): _____ _____ _____

_____ _____ _____

_____ _____ _____

Equipment Type: _____ EQSS Ref: _____

Applicable Zone: Temp/Pres. _____

Rad. _____

NORMAL SERVICE CONDITIONS:		LIMITING ZONE NO.
Time (duration)	_____	
Pressure psig	_____	_____
Temperature, °F (range)	_____	_____
Relative Humidity, %	_____	
Radiation, rads (40 yr. normal integrated dose), gamma	_____	_____

EMERGENCY (DBE) SERVICE CONDITIONS:		
Operating Time (duration)	_____	
Pressure psig	_____	_____
	_____	_____
	_____	
Temperature, °F	_____	_____
	_____	_____
	_____	
Humidity, %	_____	
Radiation, rads, gamma (40 yr. integrated dose plus accident dose for the above operating time)	_____	_____

NOTES:

1. This form may be filled for each individual equipment or for each specification. However, the current equipment specification service conditions must agree with this form.
2. Refer to EQSR for the applicable Bldgs., Elev., Zones and operating times.
3. Refer to Appendix E of Shoreham Environmental Qualification Report and FSAR Table 3.11.2-1 for service conditions.
4. "The Operating Time" indicates the longest post accident operating time.
5. If space for Equipment ID's is insufficient, list ID's on an attachment and reference the attachment above.

APPENDIX B

ENVIRONMENTAL QUALIFICATION SUMMARY SHEET (EQSS)

The EQSS is a one page summary (a blank copy of which is included after this description) of the qualification document(s) to record the test or analysis results.

The data entered on the EQSS are, for the most part, self-explanatory. Each EQSS is numbered by specification number, succeeded by a number to sequentially identify each component or group of components. When an EQSS is revised, a revision number is added beginning with "1". | 2

Data entries include procurement document references and test report identifications with applicable IEEE standards and the qualified life of the equipment.

The TEST SEQUENCE entry details the specific steps performed during the environmental qualification test in the sequence that they were performed.

The TEST ENVIRONMENT data tabulates the temperature, pressure and humidity test parameters, and their duration. In addition, the reviewer must ascertain whether the operability time and the equipment accuracy performance are acceptable. | 2

Other entries include the APPLICABLE ENVIRONMENT ZONES in which the equipment must be qualified, and RADIATION AGING, THERMAL AGING, and mechanical CYCLE AGING data from the test report.

Completed EQSS copies are indexed and included following the blank copy for those qualification documents which have been evaluated. Each EQSS is referenced in the Equipment Qualification Status Report (EQSR). The EQSR also gives the qualification status for the equipment items.

INDEX
ENVIRONMENTAL QUALIFICATION STATUS SUMMARY
(EQSS)

EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED
003-01	Limitorque Valve Actuators SMB2, SMB3	GE-NED	4/22/81 Rev. 1
039-01	4160V Switchgear	GE	5/6/82
062G	Centrifugal Pumps	Goulds Pumps	3/8/82 2/21/82
088-01	Limit Switch	Namco Controls	2/12/82
102-01	Centrifugal Fans	Buffalo Forge	4/20/82
124-01A	120VAC Distribution Panel	Systems Controls	3/10/82 Rev. 1
124-01B	120VAC Distribution Panel	Systems Controls	3/10/82 Rev. 1
127-01	5KV Power Cable	Kerite	1/4/82 Rev. 1
128-01	600V Power Cable	Okonite	11/20/81 Rev. A
129-01	Instrument Cable	Rockbestos	11/27/81 Rev. 1
129-02	Instrument Cable	Rockbestos	12/31/81
130-01	Instrument Cable	Raychem	1/28/82 Rev. B
134-01	Electrical Penetration Series 200 Low Voltage	GE	5/17/82 Rev. 2
134-02	Electrical Penetration Series 100 Medium Voltage	GE	5/17/82 Rev. 1
159-01	Splicing Tapes T35, T95	Okonite	4/5/82
159-02	Lugs & Splices 52900 thru 53900	AMP	1/26/82 Rev. A

EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED	
159-03	Switchboard Wire SIS 157279	GE	3/25/82	2
159-04	Switchboard Wire A83-0-6	Rockbestos	3/15/82	
159-05	Raychem WCSF-N Splice & Termination	Raychem	2/4/82 Rev. 1	
159-06	Cable Splices and Terminations	Kerite Co.	3/3/82	
197-01	Motor Operated Valve Actuators, Limitorque	Henry Pratt ITT Grinnell Contramatics	Included in 88V-03	
214-01	Motor Operated Valve Actuators, Limitorque	Velan	Included in 88V-01	2
214-02	Motor Operated Valve Actuators, Limitorque	Velan	Included in 88V-03	
232-01	Solenoid Valve ASCO NP8320	Velan	5/10/82 Rev. 1	
235-01	Loop Level Pumps Westinghouse Motors	Goulds Pumps	3/17/82	
248-01	Miscellaneous Transformer	Magnetics	12/01/81 Rev. 1	
253-01	Motor Operated Valve Actuators, Limitorque	Velan	Included in 88V-01	
253-02	Motor Operated Valve Actuators, Limitorque	Velan	Included in 88V-02	
253-03	Motor Operated Valve Actuators, Limitorque	Velan	Included in 88V-03	2
270-01	Axial Flow Fans Westinghouse Motors	Buffalo Forge	4/21/82	
276-01	Fan Motor 143TCZ Westinghouse	Buffalo Forge	3/22/82 Rev. 1	
276-02	Unit Cooler Fans Westinghouse Motors	Buffalo Forge	4/21/82	

EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED
289-02	Limitorque MOVS	Atomics International (Rockwell)	Included in 88V-01
2 289-03	Hydrogen Recombiner Blower Motor	Reliance Electric Co.	5/8/82 Rev. 1
310-01	Electric Motor Operated Control Valves Harold Beck & Sons	Fisher Controls	5/10/82 Rev. 1
318-01	Solenoid Valve, ASCO NP-8320	Copes Vulcan	8/18/81
318-02	Solenoid Valve, ASCO HVA-206	Copes Vulcan	8/18/81
319-01	Veltron 800, Centerline 32046, Dwyer 1627, Powers 331-2792, Raymond MASR-9/49	MCC Powers	9/21/81
2 319-02	ITT General NH-91	MCC Powers	2/10/82 Rev. A
319-03	Solenoid Valve,	MCC	9/1/81
2	ASCO WJKHX-8320	Powers	
344-01	Gas Analyzer	Comsip	12/3/81
2			Rev. 1
344-01A	Gas Analyzer	Comsip	12/3/81
406-01	Pressure Transmitter, 1153 Series B	Rosemount	5/8/82 Rev. 1
406-02	Pressure Transmitter, 1152 Series E	Rosemount	5/8/82 Rev. 1
2 406-03	RTD, 88-149 et al.	Rosemount	5/8/82 Rev. 1
407-01	Level Switch 291-MPG-X-M14DC	Magnetrol	1/9/82
423-01	Solenoid Valve ASCO NP8320	Fisher Controls	8/18/81

EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED	
439-01	480V MG Set Panel	Louis Allis	1/6/82	2
439-01A	480V MG set Panel	Louis Allis	6/25/81	
439-01B	480V MG set Panel	Louis Allis	1/6/82 Rev. 1	
439-01C	480V MG set Panel	Louis Allis	1/6/82 Rev. 1	2
439-01D	480V MG set Panel	Louis Allis	1/6/82 Rev. 1	
439-01E	480V MG set Panel	Louis Allis	6/25/81	
439-02	480V MG set Panel	Louis Allis	1/5/82 Rev. 1	
455-01	Instrument Cable	Brand Rex	4/5/81	
456-01	Electrical Penetration	Conax	2/22/82 Rev. 1	
456-02	Electrical Penetrations, Adapter Module	Conax	2/22/82 Rev. 1	
456-02A	Electrical Penetration Assembly	Conax	2/22/82	
457-01	Leakage Level Pump Westinghouse Motors	Goulds Pumps	3/23/82	2
S1554-2-01	Solenoid Valve, Valcor V526	Valcor	5/10/82 Rev. 1	
88AD-01	Motor Operated Valve Actuator, Limitorque	Anchor Darling	Included in 88V-01	
88AD-02	Motor Operated Valve Actuator, Limitorque	Anchor Darling	Included in 88V-03	
88V-01	Motor Operated Valve Actuator, Limitorque	Velan, et al.	4/22/82 Rev. 1	

	EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED
	88V-02	Motor Operated Valve Actuator, Limitorque	Velan	4/22/82 Rev. 1
	88V-03	Motor Operated Valve Actuator, Limitorque	Velan, et al.	4/22/82 Rev. 1
ℓ	88V-04	Motor Operated Valve Actuator, Limitorque	Velan	4/22/82 Rev. 1
	3018	Barksdale BIT Pressure Switch	GE-NED	5/13/82 Rev. 3
	3021	Barksdale D2H Pressure Switch	GE-NED	5/13/82 Rev. 3
	3025	Barksdale P1H Pressure Switch	GE-NED	5/13/82 Rev. 1
ℓ	3027	ITT Barton 288A and 289A Differential Pressure Indicating Switches	GE-NED	1/11/82
ℓ	3032	Static-O-Ring 5N and 6N Series Pressure Switches	GE-NED	5/13/82 Rev. 2
ℓ	3037	Yarway 4418C Level Indicator	GE-NED	Deleted
ℓ	3040	Fenwal Temperature Switch	GE-NED	Deleted
ℓ	3048	Rosemount 1151 Pressure Transmitter	GE-NED	5/13/82 Rev. 1
	3096	ASCO HTX-8320A20 Solenoid Valve	GE-NED	12/28/81
	3110	Pyco/California Alloy NECI Temperature Element	GE-NED	5/13/82 Rev. 1
ℓ	3111	General Electric ECCS Motors	GE-NED	5/13/82 Rev. 1
ℓ	3143	Magnetol 3.5-751X-MPG-M14HY Level Switch	GE-NED	12/31/81 Rev. 1

EQSS NO.	EQUIPMENT TITLE	VENDOR	DATE REVIEWED	
3146	Conax 1832-159-01 Explosive Valve	GE-NED	1/11/82	
3902	General Electric 47D518673 Electric Heater	GE-NED	12/31/81 Rev. 1	2
3903	General Electric 2CH6-041-1U Blower	GE-NED	5/13/82 Rev. 1	2
3904	Target Rock 1/2 SMS-A-01 Solenoid Valve	GE-NED	12/31/81	
3906	PYCO 102-3171 Temperature Element	GE-NED	5/13/82 Rev. 1	2
3909	ASCO NP8316E36E Solenoid Valve	GE-NED	5/13/82 Rev. 1	
3915	Rosemount 1152 Pressure Transmitter	GE-NED	1/6/82	2

ENVIRONMENTAL QUALIFICATION SUMMARY NO. ____
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE _____

SPEC. NO. _____ P.O. _____ VENDOR _____

TEST ITEM DESC. _____

MAKE _____ MODEL _____

APPLICABLE STANDARDS _____ TEST REPORT NO. _____

IEEE _____ TEST METHOD _____

IELE _____ DOCUMENTATION ACCEPTABILITY _____

IEEE _____

NUREG 0588 CAT. _____ QUALIFIED LIFE _____

TEST SEQUENCE (R: _____)

1. _____ 6. _____
2. _____ 7. _____
3. _____ 8. _____
4. _____ 9. _____
5. _____ 10. _____

TEST ENVIRONMENT (R: _____)

TIME	
TEMP. °F	
PRES. PSIG	

OP. TIME DEMO _____ ACC/PERF DEMO _____

APPLICABLE ENV. ZONES

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

RADIATION AGING (R: _____)

DOSE RATE _____ RAD/HR

DOSE PRIOR TO ENV. TEST _____ RADS

DOSE DURING ENV. TEST _____ RADS

TOTAL DOSE _____ RADS

CYCLE AGING (R: _____)

CYCLES REQUIRED _____

CYCLES PERFORMED _____
(Electro-Mechanical Equip. only)

THERMAL AGING (R: _____)

AGED TO SIMULATED LIFE OF _____ YRS.

BASED ON AMBIENT TEMP OF _____ °F

AGING TEMP./ DURATION _____ / _____

REL. HUMIDITY _____ %

NOT AGED-JUSTIFIED BY ANALYSIS TO _____ YRS.

REVIEWER: _____ DATE: _____

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 003-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Rev 1

SPEC. TITLE NUCLEAR STEAM SUPPLY SYSTEM
SPEC. NO. SHI-003 P.O. 310010 VENDOR General Electric - NED
TEST ITEM DESC. MOTOR OPERATED VALVES
MAKE LIMITORQUE MODEL SMB-0-15 Reliance, Class H, AC
VENDOR TEST REPORT NO. 600198 + B0058, App. R - 600376A
APPLICABLE STANDARDS
IEEE -323-1971
IEEE -382-1982
IEEE
NUREG 0588 CAT. II
TEST REPORT NO.
TEST METHOD SEQUENTIAL TESTING
DOCUMENTATION ACCEPTABILITY NOT ACCEPTABLE
QUALIFIED LIFE NOT DETERMINED

TEST SEQUENCE (R: pg 3-7; 600198)

1. PRELIMINARY HEAT TEST
2. PRELIMINARY LIVE STEAM TEST ON ACTUATOR
3. HEAT AGING
4. SHOCK AND VIBRATION
5. 150 CYCLE TEST
6. POST ACCIDENT STEAM + CHEMICAL ENVIRONMENT TEST

TEST ENVIRONMENT (R: p11 + App I F-C2232-01)

	0-1hr	1-3hrs	3-5hrs	5-24hrs	24hr-7dy
TIME					
TEMP. °F	329	313.5	287	264	249
PRES. PSIG	90	70	40	20	15

R.H. 100 %
OP. TIME DEMO 7 days ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD D
T/P 22

RADIATION AGING (R: 600376A, pg 4)
NOT INCLUDING BRAKES
DOSE RATE RAD/HR
DOSE PRIOR TO ENV. TEST 204×10^6 RADS
DOSE DURING ENV. TEST RADS
TOTAL DOSE 204×10^6 RADS

THERMAL AGING (R: pg 5; 600198)
AGED TO SIMULATED LIFE OF NOT DETERMINED YRS.
BASED ON AMBIENT TEMP OF °F
AGING TEMP./ DURATION 180° / 100 hrs
REL. HUMIDITY NOT GIVEN %
NOT AGED-JUSTIFIED BY ANALYSIS TO YRS.

CYCLE AGING (R: pg 6; 600198)
CYCLES REQUIRED 500 [IEEE-382-'72]
CYCLES PERFORMED 150
(Electro-Mechanical Equip. only)

REVIEWER: Jim W. Smith DATE: 4/22/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 039-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Recirculating Pump Trip Control Breakers
SPEC. NO. 039 P.O. 310057 VENDOR General Electric
TEST ITEM DESC. 4160V Switchgear - RPT Breakers (Fuse Blocks)
MAKE General Electric MODEL M26
VENDOR TEST REPORT NO. REQN. 300-92572

APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I

TEST REPORT NO. 039-01
TEST METHOD Test sequential
DOCUMENTATION ACCEPTABILITY Acceptable for Cat. I
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Appendix M)

1. Thermal Aging
2. Irradiation
3.
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R:)

TIME
TEMP. °F N/A
PRES. PSIG
R.H. %
OP. TIME DEMO ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD L
T/P 02

RADIATION AGING (R: Appendix M)

DOSE RATE RAD/HR
DOSE PRIOR TO ENV. TEST 1.2×10^7 RADS
DOSE DURING ENV. TEST RADS
TOTAL DOSE 1.2×10^7 RADS

THERMAL AGING (R: Appendix M)

AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF °F
AGING TEMP./ DURATION 125°C, 140 Days
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: N/A)

CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinshteyn DATE: 5/6/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 626-01 page 1 of 2
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Centrifugal Pump
SPEC. NO. 626 P.O. 310582 VENDOR Gould Pump
TEST ITEM DESC. Motor - 20HP.
MAKE Reliance Electric Company MODEL 20-HP-286T
VENDOR TEST REPORT NO. Limitorque Project #600456 & Reliance #NUC-9
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 344-1975
IEEE 334-1974
NUREG 0588 CAT. II
TEST REPORT NO. 626-01
TEST METHOD Sequential Test Analysis
DOCUMENTATION ACCEPTABILITY acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: page 3÷11 (Limitorque #600456))

1. Thermal aging.
2. Mechanical aging.
3. Radiation aging.
4. Seismic testing.
5. Radiation exposure.
6. LOCA test.
7. Visual inspection.
8. Post LOCA load cycling test.
9. Final inspection.
10.

TEST ENVIRONMENT (R: page 10. (Limitorque #600456))

TIME	33 min	24 min	92 Hours	624 Hours
TEMP. °F	295	310	250	200
PRES. PSIG	70	70	30	10

R.H. 100 (spray) %
OP. TIME DEMO 30 Days ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD 5
T/P 18

RADIATION AGING (R: pg. 6 Limitorque #600456)
DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.04×10^8 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 2.04×10^8 RADS

CYCLE AGING (R: page 11)
CYCLES REQUIRED N/A
CYCLES PERFORMED 1208
(Electro-Mechanical Equip. only)

THERMAL AGING (R: page 3, Limitorque #600456)
AGED TO SIMULATED LIFE OF 6.04 YRS.
BASED ON AMBIENT TEMP OF 221* °F
AGING TEMP./ DURATION 355°F, 100 Hours
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 years YRS.

*(40°C Zone + 65°C heat rise) = 105°C = 221°F

REVIEWER: M. Grinshteyn DATE: 3-8-82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 62G-01 page 2 of 2
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Centrifugal Pump
SPEC. NO. 62G P.O. 340582 VENDOR Gould pump
TEST ITEM DESC. Motor - 100 HP
MAKE Reliance Electric company MODEL 100-HP-405TS
VENDOR TEST REPORT NO. Limitorque Project #600456 + RELIANCE # NUC-9
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 344-1975
IEEE 334-1974
NUREG 0588 CAT.
TEST REPORT NO. 62G-01
TEST METHOD Sequential Test Analysis
DOCUMENTATION ACCEPTABILITY Not acceptable until additional analysis is provided.
QUALIFIED LIFE —

TEST SEQUENCE (R: page 3÷11) (Limitorque #600456)

1. Thermal aging.
2. Mechanical aging
3. Radiation aging
4. Seismic testing
5. Radiation exposure.
6. LOCA test.
7. Visual inspection.
8. Post LOCA load cycling test.
9. Final inspection.
10.

TEST ENVIRONMENT (R: page 10 Limitorque #600456)

TIME	33min	24min	92 Hours	624 Hours
TEMP. °F	295	310	250	200
PRES. PSIG	70	70	30	10

R.H. 100 (spray) %
OP. TIME DEMO 30 days ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD H
T/P 18

RADIATION AGING (R: pg 6, Limitorque #600456)
DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.04×10^8 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 2.04×10^8 RADS

THERMAL AGING (R: pg 3, Limitorque #600456)
AGED TO SIMULATED LIFE OF 2.98 YRS.
BASED ON AMBIENT TEMP OF 221* °F
AGING TEMP./ DURATION 355°F / 100 Hours
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: page 11)
CYCLES REQUIRED N/A
CYCLES PERFORMED 1208
(Electro-Mechanical Equip. only)

* 40°C zone + 65°C heat rise = 105°C = 221°F

REVIEWER: M. Grinshteyn DATE: 2/21/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 088-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Limit Switch
SPEC. NO. 088 P.O 347565 VENDOR Namco Controls
TEST ITEM DESC. Limit Switch
MAKE Namco Controls MODEL EA 180
VENDOR TEST REPORT NO. QTR 105
APPLICABLE STANDARDS
IEEE 323 -1974
IEEE 382 -1972
IEEE 344 - 1975
NUREG 0588 CAT. I
TEST REPORT NO. 088-01
TEST METHOD Sequential Test, Analysis
DOCUMENTATION ACCEPTABILITY Acceptable for Cat. I
QUALIFIED LIFE 40 years (Recom. 2)

TEST SEQUENCE (R: page 10-5 ÷ 10-10.)

1. Inspection
2. Initial Functional Test
3. Thermal Aging
4. Mechanical wear aging
5. Irradiation
6. Seismic testing
7. DBE test
8. Performance test after each test.
9. Final Inspection.

TEST ENVIRONMENT (R: page 10-8 ÷ 10-14, Fig. 3)

TIME	6 HRS	3.5 HRS	45 HRS	26 days	
TEMP. °F	340	320	250	200	
PRES. PSIG	100	80	60	10	

R.H. 100 (spray) %
OP. TIME DEMO 30 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD D; E;
T/P 01; 03; 07; 22

RADIATION AGING (R: Sect. 6.5, page 10-7)
DOSE RATE 9.1×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 2.04×10^8 RADS
DOSE DURING ENV. TEST none RADS
TOTAL DOSE 2.04×10^8 RADS

CYCLE AGING (R: Sect. 6.4, page 10-6)
CYCLES REQUIRED N/A
CYCLES PERFORMED 100, 200
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Sect. 6.3 p. 10-6, Fig. 8 p. 42)
AGED TO SIMULATED LIFE OF 2.2 years (primary side) 18 years (secondary side) YRS.
BASED ON AMBIENT TEMP OF 150°F (primary side) 104°F (secondary side) °F
AGING TEMP./ DURATION 248°F, 400 Hours
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: William R Shaw DATE: 2/12/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 102-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE CENTRIFUGAL FANS

SPEC. NO. SHI-102 P.O. 310516 VENDOR BUFFALO FORGE CO.

TEST ITEM DESC. MOTORETTES

MAKE WESTINGHOUSE MODEL 143TCZ

VENDOR TEST REPORT NO. WESTINGHOUSE Nº MM-9112 (PREV. WCAP-9112).

APPLICABLE STANDARDS

IEEE STD 323-1974

IEEE STD 334-1974

IEEE

NUREG 0588 CAT.

TEST REPORT NO. TR-102-01

TEST METHOD SEQUENTIAL-AFBMA STD. 9-1972

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS.

TEST SEQUENCE (R: PAGES 6, 7, 8 OF REPORT MM-9112)

1. THERMAL AGING.
2. GAMMA RADIATION EXPOSURE.
3. MECH. STRESS EXPOSURE.
4. MOISTURE EXPOSURE.
5. HIGH POTENTIAL TEST.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: PAGE 7 OF REPORT MM-9112)

TIME	7533 HRS (313.8 DAYS).
TEMP. °F	210°C (410°F).
PRES. PSIG	ATMOSPHERIC
R.H.	100 %

OP. TIME DEMO 313.8 DAYS ACC/PERF DEMO N/A.

APPLICABLE ENV. ZONES

RAD K

T/P 15

RADIATION AGING (R: APP. B-PG. 1, 2, 3 MM-9112)

DOSE RATE 0.4 MEGA RAD/HR

DOSE PRIOR TO ENV. TEST 278.7 MEGA RADS

DOSE DURING ENV. TEST — RADS

TOTAL DOSE 278.7 MEGA RADS

THERMAL AGING (R: PG. 9, PAR. (a)(c) IF MM-9112)

AGED TO SIMULATED LIFE OF OVER 150 YRS.

BASED ON AMBIENT TEMP OF (130°C) 266 °F

AGING TEMP./DURATION 210°C (410°F) / 7533 HRS

REL. HUMIDITY 100 %

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A. YRS.

CYCLE AGING (R: PG. 4 PAR. 2.6.6 j PG. 9, PAR. 2.10.6.3 & 2.10.7(2) MM-9112)

CYCLES REQUIRED —

CYCLES PERFORMED 14
(Electro-Mechanical Equip. only)

REVIEWER: Miriam Laufer DATE: 4/20/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 124-01A Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Miscellaneous AC and DC Distribution Boards
SPEC. NO. 124 P.O. 310713 VENDOR Systems Control
TEST ITEM DESC. Magnetic Molded Case Circuit Breakers
MAKE Westinghouse MODEL QBH/QCH
VENDOR TEST REPORT NO. Acton 16295, Rev 2, and Attachment A
APPLICABLE STANDARDS TEST REPORT NO. 124-01
IEEE 323-1974 TEST METHOD Sequential Test/Analysis
IEEE 344-1974 DOCUMENTATION ACCEPTABILITY Acceptable
IEEE
NUREG 0588 CAT. II QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Attachment A pages 24V to 24DD)

1. AC Multi-Volt Drop Test
2. Operational Cycles Aging *
3. Dielectric Test
4. Vibration Test *
5. AC Milli-Volt Drop Test
6. Thermal Aging *
7. AC Milli-Volt Drop Test
8. Vibration Test *
9. Temperature Checks
10. (* Calibration check performed)

TEST ENVIRONMENT (R: N/A No DBA test performed)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Wyle Analysis 17464-4302 Sec. 4.0)
DOSE RATE By Analysis RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2×10^6 RADS

CYCLE AGING (R: Attach. A, pg 24W)
CYCLES REQUIRED
CYCLES PERFORMED 6,000
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Attach. A pg 24Y)
AGED TO SIMULATED LIFE OF Not Determined YRS.
BASED ON AMBIENT TEMP OF Not Determined °F
AGING TEMP./ DURATION 302°F / 2400 HRS
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO * 310 YRS.
* Wyle Analysis 17464-4302 Sec. 3.0

REVIEWER: Ron M Snyder DATE: 3/10/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 124-01B Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Miscellaneous AC and DC Distribution Boards
SPEC. NO. 124 P.O. 310713 VENDOR Systems Control
TEST ITEM DESC. Ground Bus Insulator and Bus Support/Insul Barrier
MAKE Penn Custom Moldings MODEL Plenco-466
VENDOR TEST REPORT NO. Acton 16295, Rev 2

APPLICABLE STANDARDS
IEEE 323-1974
IEEE 344-1975
IEEE
NUREG 0588 CAT. II

TEST REPORT NO. 124-01
TEST METHOD Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: N/A)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD N
T/P 21

RADIATION AGING (R: Sec 4.2.2)

DOSE RATE N/A, by analysis RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2×10^7 RADS

THERMAL AGING (R: Sec 4.2.1)

AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 104 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO 225 YRS.

CYCLE AGING (R: N/A)

CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Lyon DATE: 3/10/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 127-01 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 5 KV Power Cable
SPEC. NO. 127 P.O. 310561 VENDOR Kerite Company
TEST ITEM DESC. Single Conductor, 6 AWG, 5KV, Power Cable
MAKE Kerite Company MODEL HTK(N-98) insulation, FR(HC-711) jacket
VENDOR TEST REPORT NO. None issue date May 14, 1981
APPLICABLE STANDARDS
IEEE 383-1974
IEEE 323-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 127-01
TEST METHOD Sequential Test, Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Section A, page 1, para 4, & Section B, page 13, para 5.6)

1. Thermal Aging
2. Radiation Aging
3. Simulated LOCA (6 day)
4. Inspection, Hi-pot test
5. Simulated LOCA (94 day)
6. Insulation resistance checks
7. High Voltage AC test
8.
9.
10.

TEST ENVIRONMENT (R: Section B, page 14, figure 3)
* Op. time demo extended by Wyle Analysis 17464-3502 Sec 6.0

TIME	4 HRS	7 HRS	86 HRS	2304 HRS
TEMP. °F	340	320	250	200
PRES. PSIG	95.5	60	Atmos	Atmos

R.H. 100 (Spray) *
OP. TIME DEMO >180 Days * ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD ALL
T/P ALL

RADIATION AGING (R: Sec. B App. A)
DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^8 RADS

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Sec. A, page 1, para 4)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF * 194 °F
AGING TEMP./ DURATION 302°F / 100 HRS
REL. HUMIDITY Uncontrolled *
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.
* Aging based on 194°F (90°C) conductor temp with 181.4°F (83°C) surface temp.

REVIEWER: Ron M Snyder DATE: 1/4/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 128-01 Rev A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 600 Volt Power Cable

SPEC. NO. 128 P.O. 310557 VENDOR Okonite Company

TEST ITEM DESC. 600 Volt, #12, 7X TC, .030" Okonite (EPR) insulation

MAKE Okonite Company MODEL N/A

VENDOR TEST REPORT NO. NQRN-1

APPLICABLE STANDARDS

IEEE 383-1974

IEEE 323-1974

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 128-01

TEST METHOD Sequential Test/Analysis/Historical Data

DOCUMENTATION ACCEPTABILITY Acceptable for category II positions of NUREG 0588

QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Section 1.4.1.5)

1. Electrical Test
2. Thermal Aging
3. Irradiation
4. Electrical Test
5. 30 Day LOCA test
6. Voltage Withstand Test (30 V/mil AC)
7. 100 Day LOCA Test
8. Voltage Withstand Test (30 V/mil AC)
9. Electrical Test
10. Dielectric Strength Test

TEST ENVIRONMENT (R: Section 1.4.1.3, App 5, Wyle Analysis 17464-1802, section 6.0)

TIME	3 HRS	2 HRS	3 HRS	3 HRS	4 HRS	81 HRS	26 DYS	100 DYS
TEMP. °F	345	190	345	335	315	265	212	212
PRES. PSIG	114	NOT STATED	114	101	74	26	0	0

R.H. 100 (SPRAY) %

OP. TIME DEMO 180 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD ALL

T/P ALL

RADIATION AGING (R: Appendix 1)

DOSE RATE .67 to .75 RAD/HR

DOSE PRIOR TO ENV. TEST 2.01×10^8 RADS

DOSE DURING ENV. TEST None RADS

TOTAL DOSE 2.01×10^8 RADS

CYCLE AGING (R:)

CYCLES REQUIRED Not Required

CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Section 1.4.13 + App 2)

AGED TO SIMULATED LIFE OF 40 YRS.

BASED ON AMBIENT TEMP OF 167 °F

AGING TEMP./ DURATION 302°F / 504 HRS

REL. HUMIDITY Not Addressed %

NOT AGED-JUSTIFIED BY ANALYSIS TO YRS.

* Analysis and historical data is used to establish 40 year qualified life

REVIEWER: Peter M Snyder DATE: 11/20/91

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 129-01 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Page 1 of 2

SPEC. TITLE 300V + 600V Fire Resistant Control and Instrumentation Cable
SPEC. NO. 129 P.O. 310553 VENDOR Rockbestos Company
TEST ITEM DESC. See Attachment 1
MAKE See Attachment 1 MODEL See Attachment 1
VENDOR TEST REPORT NO. Firewall III, Chemically Cross Linked, July 7, 1977, Rev Dec. 8, 1980

APPLICABLE STANDARDS
IEEE 383-1974
IEEE
IEEE
NUREG 0588 CAT. II

TEST REPORT NO. 129-01
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable, NUREG 0588 Category II positions
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: pages 5 thru 7)

1. Thermal Aging
2. Radiation Aging
3. Voltage Withstand Test
4. Radiation Aging
5. 30 Day LOCA Test
6. Voltage Withstand Test
7. 365 Day Post LOCA Test
8. Voltage Withstand Test
9.
10.

TEST ENVIRONMENT (R: pages 11 and 7)

TIME	3 HRS	2 HRS	3 HRS	3 HRS	4 HRS	81 HRS	26 DYS	1 YR
TEMP. °F	346	140	346	335	315	.265	212	200
PRES. PSIG	113	—	113	93	69	28	0	—

R.H. 100 (SPRAY) %
OP. TIME DEMO 395 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD ALL
T/P ALL

RADIATION AGING (R: Sec III, pg 5, Sec V pg 6)
DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^8 RADS

THERMAL AGING (R: Sec II pg 5)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 194 °F
AGING TEMP./ DURATION 302°F / 1300 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 11/27/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 129-01 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Page 2 of 2

SPEC. TITLE 300+600V Fire Resistant Control and Instrumentation Cable
SPEC. NO. 129 P.O. 310553 VENDOR Rockbestos Company
TEST ITEM DESC. See Attachment 2
MAKE See Attachment 2 MODEL See Attachment 2
VENDOR TEST REPORT NO. Firewall III, Irradiation Cross-Linked Insulation, Rev Dec. 8, 1980
APPLICABLE STANDARDS
IEEE 383-1974
IEEE
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. 129-01
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable, NUREG 0588 Category II positions
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: pages 16 thru 18)

1. Thermal Aging
2. Radiation Aging
3. Voltage Withstand Test
4. Radiation Aging
5. 30 Day LOCA Test
6. Voltage Withstand Test
7. 365 Day Post LOCA Test
8. Voltage Withstand Test
9.
10.

TEST ENVIRONMENT (R: Page 22 and Page 18)

TIME	3 HRS	2 HRS	3 HRS	3 HRS	4 HRS	81 HRS	26 DYS	1 YR
TEMP. °F	346	140	346	335	315	265	212	200
PRES. PSIG	113	—	113	93	69	28	0	—

R.H. 100 (SPRAY)
OP. TIME DEMO 395 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD ALL
T/P ALL

RADIATION AGING (R: Sec III pg 16, Sec IV pg 17)
DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^8 RADS

THERMAL AGING (R: Sec II pg 16)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 194 °F
AGING TEMP./ DURATION 302°F / 1300 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 11/27/81

R: Test Report Page No. Reference

TEST SAMPLE DESCRIPTIONS

Instrumentation Cable

Single conductor #16 AWG, 300 volt, 20 mils of flame retardant chemically cross-linked polyolefin insulation identified as Rockbestos Firewall III.

Conductor - 7/.0192" Coated Copper

*Control Cable

Single conductor #12 AWG, 600 volt, 30 mils of flame retardant chemically cross-linked polyolefin insulation identified as Rockbestos Firewall III.

Conductor - 7/.0305" Coated Copper

Power Cable

Single conductor #6 AWG, 600 volt, 45 mils of flame retardant chemically cross-linked polyolefin insulation identified as Rockbestos Firewall III.

Conductor - 7/.0612" Coated Copper

*Also qualifies Firewall SIS (NEC Type SIS).

TEST SAMPLE DESCRIPTION

Single conductor #12 AWG, 600 volt, 30 mils of flame retardant, irradiation cross-linked polyolefin insulation identified as Rockbestos Firewall III.

Conductor - 7/.0305" Coated Copper

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 129-02 Rev 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 300V & 600V Fire Resistant Control and Instrumentation Cable
SPEC. NO. 129 P.O. 310553 VENDOR Rockbestos Company
TEST ITEM DESC. Adverse Service Coaxial Cable
MAKE Rockbestos Company MODEL RSS 6-102 and RSS 6-113
VENDOR TEST REPORT NO. Qualification of Firewall III Coaxial Constructions

APPLICABLE STANDARDS
IEEE 383-1974
IEEE
IEEE
NUREG 0588 CAT. II

TEST REPORT NO. 129-02
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable NUREG 0588 Category II positions
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Pages 1, 2, 3)

1. Thermal Aging
2. Radiation Aging
3. 30 Day LOCA Test
4. Insulation Resistance Check
5. Dielectric Test
6. Insulation Resistance Checks
7. 365 Day Post LOCA Simulation
8. Insulation Resistance Check
9. Dielectric Test
10.

TEST ENVIRONMENT (R: Page 7)

TIME	3 HRS	3 HRS	3 HRS	4 HRS	105 HRS	391 DYS
TEMP. °F	340	340	320	300	250	200
PRES. PSIG	104	104	75	52	15	0

R.H. 100 (SPRAY) %
OP. TIME DEMO 395 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD ALL
T/P ALL

RADIATION AGING (R: Page 2 & 8)
DOSE RATE 5×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^5 RADS

THERMAL AGING (R: Page 2 Sec II)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 167 °F
AGING TEMP./ DURATION 302°F / 168 HRS
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron Moyden DATE: 12/31/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 130-01 Rev B
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Instrument Cable
SPEC. NO. 130 P.O. 310587 VENDOR Raychem
TEST ITEM DESC. See Attachments
MAKE Raychem MODEL Flametrol
VENDOR TEST REPORT NO. Raychem - Flametrol, Qualification to IEEE 383-1974, 01/75
APPLICABLE STANDARDS
IEEE 383-1974
IEEE 323-1974
IEEE
NUREG 0588 CAT. II (CAT I in RBS)
TEST REPORT NO. 130-01
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: App XI pg 6, App XXV. pg 1 and 2)

1. Combined Radiation + Thermal Aging
2. Insulation Resistance Checks
3. 30 Day LOCA exposure
4. Bend + High Potential Test
5. LOCA Continuation (306 Days)
6. Voltage Withstand
7.
8.
9.
10.

TEST ENVIRONMENT (R: App XI pg 6, App XIII, App XXV)

TIME	10 HRS	82 HRS	26 DYS	121 DYS	185 DYS
TEMP. °F	357°	275°	212°	200°	155°
PRES. PSIG	70	31	10	10	—

R.H. (SPRAY) 100 %
OP. TIME DEMO 336 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD ALL Reactor Building
T/P ALL Reactor Building

RADIATION AGING (R: App XI sec 3.5 & 3.6, App B of App XI)
DOSE RATE Not Stated RAD/HR
DOSE PRIOR TO ENV. TEST 5×10^7 RADS
DOSE DURING ENV. TEST 1.5×10^8 RADS
TOTAL DOSE 2×10^8 RADS

THERMAL AGING (R: App XI sec 3.5, App XII, Wyle Anal. 17464-1102)
AGED TO SIMULATED LIFE OF (>40 yrs in RBS) 31 YRS.
BASED ON AMBIENT TEMP OF 194° °F
AGING TEMP./ DURATION 302° / 32 Days
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 1-28-82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 134-01 Rev 2
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Containment Electrical Penetrations
SPEC. NO. 134 P.O. 310578 VENDOR General Electric
TEST ITEM DESC. Electrical Containment Penetration
MAKE General Electric MODEL Series 200, Low Voltage
VENDOR TEST REPORT NO. 994-76-018
APPLICABLE STANDARDS
IEEE 317-1972
IEEE
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. 134-01
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 YRS

TEST SEQUENCE (R: Page 3)

1. Thermal Cycle
2. Gamma Exposure
3. Overcurrent
4. LOCA Test
5. Seismic Test
6. Long Term Post LOCA
7.
8.
9.
10.

TEST ENVIRONMENT (R: Page 32)

TIME	4.5 hrs	3.5 hrs	17.5 hrs	120 days 6 hrs
TEMP. °F	340	328	275	210
PRES. PSIG	103	80	26	20

R.H. %
OP. TIME DEMO ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD D
T/P 22

RADIATION AGING (R: Page 9)
DOSE RATE Not Stated RAD/HR
DOSE PRIOR TO ENV. TEST 1×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 1×10^8 RADS

CYCLE AGING (R: Not Required)
CYCLES REQUIRED
CYCLES PERFORMED (Electro-Mechanical Equip. only)

THERMAL AGING (R: Epoxy 74-502-3 Ch/D) O-Ring Attach A+B
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 160 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO O-Ring 5 YRS, Epoxy 40 YRS.

REVIEWER: [signature] DATE: 5/12/82

R: Test Report Page No. / Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 134-02 Rev-1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Containment Electrical Penetrations
SPEC. NO. 134 P.O. 310578 VENDOR General Electric
TEST ITEM DESC. Electrical Containment Penetrations
MAKE General Electric MODEL 100 Series, 5 KV Medium Voltage
VENDOR TEST REPORT NO. 74-502-2
APPLICABLE STANDARDS
IEEE 317-1972
IEEE
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. 134-02
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 YRS

TEST SEQUENCE (R: Page 1-2)

1. Gamma Exposure
2. Electrical Testing
3. LOCA
4. Post LOCA Test
5. Thermal Cycle (Performed independently)
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Page 2-3)

TIME	4 HRS	6 HRS	240 HRS	
TEMP. °F	340	320	260	
PRES. PSIG	103	81	20	

R.H. (SPRAY) 100 %
OP. TIME DEMO 10 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD D
T/P 22

RADIATION AGING (R: App B)
DOSE RATE 3.7×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 1×10^8 RADS
DOSE DURING ENV. TEST NONE RADS
TOTAL DOSE 1×10^8 RADS

THERMAL AGING (R: Epoxy - Report 74-502-3 CHMD)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 160 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

CYCLE AGING (R: App A Thermal Cycle)
CYCLES REQUIRED 100
CYCLES PERFORMED 120
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 05/12/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electrical Installation

SPEC. NO. SHI-159 P.O. Various VENDOR Various

TEST ITEM DESC. Okoguard Insulated Cables and Splicing Tapes.

MAKE The Okonite Co. MODEL T-95, No. 35 Splicing Tapes.

VENDOR TEST REPORT NO. NORN-3

APPLICABLE STANDARDS

IEEE 383-1974

IEEE 323-1974

IEEE

NUREG 0588 CAT. —

TEST REPORT NO. 159-01

TEST METHOD Sequential Test

DOCUMENTATION ACCEPTABILITY Not Applicable to 600 V cables used Shoreham.

QUALIFIED LIFE —

TEST SEQUENCE (R: page 3)

1. Sample selection + pre-test
2. Prepare Splices
3. Thermal Aging
4. Irradiation
5. Pre-Loca check
6. Loca profile
7. Post Loca Withstand
8. Add. 100 Day Environment
9. Final Check
10. Dielectric Strength Test

TEST ENVIRONMENT (R: Appendix 4)

TIME	0-3 HRS	5-8 HRS	8-11 HRS	11-15 HRS	15 HRS-4 Days	4D-130 Days
TEMP. °F	345	345	335	315	265	212
PRES. PSIG	114	114	101	74	26	0-2

R.H. 100 (spray) %

OP. TIME DEMO 130 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD All

T/P All

RADIATION AGING (R: Appendix 3)

DOSE RATE 0.67÷0.75 RAD/HR

DOSE PRIOR TO ENV. TEST 2.01×10^8 RADS

DOSE DURING ENV. TEST N/A RADS

TOTAL DOSE 2.01×10^8 RADS

THERMAL AGING (R: page 3 and App. 2.)

AGED TO SIMULATED LIFE OF 40 YRS.

BASED ON AMBIENT TEMP OF 192 °F

AGING TEMP./ DURATION 302°F, 3 weeks

REL. HUMIDITY N/A. %

NOT AGED-JUSTIFIED BY ANALYSIS TO ____ YRS.

CYCLE AGING (R: N/A)

CYCLES REQUIRED

CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinshteyn DATE: 4/5/1982

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-02 REV A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE ELECTRICAL INSTALLATION

SPEC. NO. SH1-159 P.O. VARIOUS VENDOR VARIOUS

TEST ITEM DESC. LUGS & SPLICES

MAKE AMP MODEL 534--, 539--, 529--

VENDOR TEST REPORT NO. 110-11516

APPLICABLE STANDARDS

IEEE 323 - 1974

IEEE 383 - 1974

IEEE P572 / D6A

NUREG 0588 CAT. 1

TEST REPORT NO. 159-02

TEST METHOD SEQUENTIAL TEST/ANALYSIS

DOCUMENTATION ACCEPTABILITY ACCEPTABLE FOR SECONDARY CONTAIN.

QUALIFIED LIFE 40 YRS

TEST SEQUENCE (R: Pg 4 of 14)

1. EXAMINE PRODUCT
2. TEMP RISE
3. HEAT AGE
4. DIELECTRIC WITHSTAND
5. RAD. EXPOSURE
6. SPRAY
7. TENSILE STRENGTH
8.
9.
10.

TEST ENVIRONMENT (R: Pg 5 of 14)

TIME	0 TO 7 MIN	7 TO 9 MIN	9 TO 11 MIN	11 TO 17.5 MIN	19.5 MIN TO 8.3 HRS	9.8 HRS TO 52.2 HRS	54.3 HRS TO 384 HRS
TEMP. °F	↑370	370	↓350	350	302	268	240
PRES. PSIG	↑60	60	60	60	55	26	13-14

R.H. 100% @

OP. TIME DEMO 16 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD ALL

T/P ALL

RADIATION AGING (R: Pg 5 of 14)

DOSE RATE 0.75 MEGA RAD/HR

DOSE PRIOR TO ENV. TEST 2.06×10^8 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 2.06×10^8 RADS

THERMAL AGING (R: Pg 5 of 14)

AGED TO SIMULATED LIFE OF 40 (38.75 FOR ST) ** YRS.

BASED ON AMBIENT TEMP OF 89°C (INCLUDES TEMP RISE) °F

AGING TEMP./ DURATION 150°C / 7 DAYS *

REL. HUMIDITY UNCONTROLLED @

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: NOT REQD)

CYCLES REQUIRED N/A

CYCLES PERFORMED N/A
(Electro-Mechanical Equip. only)

* ADDITIONAL COMPONENTS AGED FURTHER

** SEE SUPPORTING ANALYSIS DATED 1/26/82 REV A. 1/26/82

REVIEWER: William R Shoaf DATE: 8-4-81

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-03
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electrical Installation
SPEC. NO. 159 P.O. Various VENDOR Various
TEST ITEM DESC. General Electric Switchboard Wire
MAKE General Electric MODEL Vulkene Supreme SI-57279
VENDOR TEST REPORT NO. E-C4497-2 and GE PD-80
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 383-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 159-03
TEST METHOD Test Sequential
DOCUMENTATION ACCEPTABILITY Acceptable for Cat. I
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: p. 3-1 ÷ 3-3; 4-1 of Report F-C4497-2)

1. Thermal Aging
2. Gamma Radiation Exposure
3. Steam/chemical spray Exposure
4. Mandrel Bend Test
5. High-Potential Test
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Page C-5 of Report F-C4497-2)

TIME	0 to 0.35HRS	0.35HRS to 3 Days	0 to 3 HRS	3HRS - 6.5HRS	6.5HRS - 9.5HRS	9.5HRS - 12.5HRS	12.5HRS - 16.5HRS	16.5HRS to 4Days
TEMP. °F	348	Test stopped	346	140	345	335	315	265
PRES. PSIG	124		124	0	122	95	69	28
								4Days-110Days 212
								0005

R.H. 100 (spray) %
OP. TIME DEMO 110 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD All
T/P All

RADIATION AGING (R: page 3-1)
DOSE RATE 0.54 x 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.2 x 10^8 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 2.2 x 10^8 RADS

THERMAL AGING (R: page 4 of PD-80)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 194 °F
AGING TEMP./ DURATION 330°F, 125HRS
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: N/A)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinshteyn DATE: 3/25/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-04
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electrical Installation
SPEC. NO. 159 P.O. Various VENDOR Various
TEST ITEM DESC. Switchboard wire
MAKE RockBestos MODEL Cat. No. A83-0--6
VENDOR TEST REPORT NO. Qualification of Firewall III class 1E Electric Cables
APPLICABLE STANDARDS
IEEE 383-1974
IEEE 323-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 159-04
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: page 2-4)

1. Coiling
2. Thermal Aging *
3. Irradiation *
4. LOCA **
5. Voltage Withstand Test
6. 100 Day Post Loca ***
7. Voltage Withstand ***
8. * - Not Performed on Sample "C"
9. ** - Not Performed on Sample "A"
10. *** Performed only on Sample "B"

TEST ENVIRONMENT (R: LOCA Profile on pg. 8, page 4)

"B" and "C" samples — "B" sample only

TIME	3HRS	3HRS	3HRS	4HRS	81HRS	26 Days	100 Days
TEMP. °F	346	346	335	315	265	212	200
PRES. PSIG	113	113	93	69	28	0	0

R.H. 100 (spray) %
OP. TIME DEMO 130 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD All
T/P All

RADIATION AGING (R: page 2, 3 and 9)
DOSE RATE .65x10^6 - Normal, .8x10^9 Accident RAD/HR
DOSE PRIOR TO ENV. TEST 2x10^8 - "B" sample, 1.5x10^8 - "C" sample RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2x10^8 RADS

THERMAL AGING (R: p. 2.)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 194 °F
AGING TEMP./ DURATION 302°F, 1300 HRS
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R:)
CYCLES REQUIRED N/A
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinstein DATE: 3/15/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-05
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE ELECTRICAL INSTALLATION
SPEC. NO. SH1-159 P.O. 310541 VENDOR RAYCHEM
TEST ITEM DESC. HEAT SHRINKABLE INSULATING SLEEVES
MAKE RAYCHEM MODEL WCSF-N
VENDOR TEST REPORT NO. EDR-5011

APPLICABLE STANDARDS
IEEE - 323-1974
IEEE - 383-1974
IEEE

TEST REPORT NO. 5011
TEST METHOD SEQUENTIAL TESTING
DOCUMENTATION ACCEPTABILITY NO - SEE COMMENTS - EQREF 159-05

NUREG 0588 CAT. I
QUALIFIED LIFE

TEST SEQUENCE (R: pg 2-3)

1. FUNCTIONAL TEST
2. AGING SIMULATION
3. NUCLEAR RADIATION
4. LOCA SIMULATION
5. POST-LOCA SIMULATION TEST
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R:)

TIME	0-3hr	3-5hr	5-8hr	8-11hr	11-15hr	15hr-4day	4-30day
TEMP. °F	340°F	340→140	340	320	300	250	200
PRES. PSIG	103	—	103	75	52	15	0

R.H. 100% %
OP. TIME DEMO 30 day ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD ALL
T/P ALL

RADIATION AGING (R: pg 2)
DOSE RATE .381 x 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 163.3x10^6 RADS
DOSE DURING ENV. TEST RADS
TOTAL DOSE 163.3 x 10^6 RADS

THERMAL AGING (R: pg 2)
AGED TO SIMULATED LIFE OF NOT DETERMINED YRS.
BASED ON AMBIENT TEMP OF NOT DETERMINED °F
AGING TEMP./ DURATION 168 hrs/ 150°C
REL. HUMIDITY NOT GIVEN %
NOT AGED-JUSTIFIED BY ANALYSIS TO YRS.

CYCLE AGING (R: —)
CYCLES REQUIRED NOT REQ.
CYCLES PERFORMED NOT REQ
(Electro-Mechanical Equip. only)

REVIEWER: Jim W. Smith DATE: 2/4/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 159-06
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electrical Installation
SPEC. NO SHI-159 P.O. Various VENDOR The Kerite company.
TEST ITEM DESC. Cable Splices and Terminations.
MAKE The Kerite company MODEL S-5MT-NUC, 1T/0T-5MT-NUC.
VENDOR TEST REPORT NO. Isomedix Report I-R.975-01
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 383-1974
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. 159-86
TEST METHOD Sequential Test; Analysis.
DOCUMENTATION ACCEPTABILITY Acceptable for NUREG 0588 Category II.
QUALIFIED LIFE 15 years (for EPR material)

TEST SEQUENCE (R: page 1, parag. 4a; page 13, parag. 5 and 6.

1. Thermal Aging
2. Radiation Aging
3. Simulated Loca (6 day)
4. Inspection, Hi-pot test
5. Simulated LOCA (contin. 94 day)
6. Insulation resistance checks
7. High Voltage AC Test.
8.
9.
10.

TEST ENVIRONMENT (R: page 14, Figure 3)

TIME	4 HRS	10 HRS	86 HRS	2304 HRS
TEMP. °F	340	320	250	200
PRES. PSIG	95.5	60	12	Atmos.

R.H. 100 % (spray)
OP. TIME DEMO 100 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD All
T/P All

RADIATION AGING (R: Appendix A.
DOSE RATE 1 x 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2 x 10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2 x 10^8 RADS

CYCLE AGING (R:)
CYCLES REQUIRED Not Required
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: page 1, parag. 4a
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 194* °F
AGING TEMP./ DURATION 302°F, 100 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO 15 years (NUREG 0588 Cat II) 0.97 years (NUREG 0588 Cat I).
*Aging based on 194°F maximum conductor temperature.

REVIEWER: M. Grinshteyn DATE: 3/3/82.

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 232-01, Revision 1" Date: 5/10/82
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Special Check Valves
SPEC. NO. 232 P.O. 310595 VENDOR Velan
TEST ITEM DESC. Solenoid Valve
MAKE ASCO MODEL NP8320A184E
VENDOR TEST REPORT NO. AQS-21678/TR Rev A, Wyle report 17464-1202
APPLICABLE STANDARDS TEST REPORT NO. 232-01, Rev. 1"
IEEE 323-1974 TEST METHOD Sequential Test/Analysis
IEEE DOCUMENTATION ACCEPTABILITY Acceptable
IEEE
NUREG 0588 CAT. I QUALIFIED LIFE 40 years - coil & elastomer change every 4 years

TEST SEQUENCE (R: Pages 3-1, 3-2)

1.* Baseline/Functional
2. Thermal Aging
3. Radiation
4. Wear Aging
5. Seismic Simulation/Vibration End.
6. Accident Radiation
7. LOCA Simulation
8.
9.
10.

* Before and After each Type Test phase

TEST ENVIRONMENT (R: Pages 4-4, 4-5 and Fig 2 page 4-21)

TIME	3 HRS	3 HRS	3 HRS	85 HRS	26 DYS
TEMP. °F	346	346	320	250	200
PRES. PSIG	110	110	75	15	10

R.H. (SPRAY) 100 %
OP. TIME DEMO 180 DYS * ACC/PERF DEMO N/A
* Analysis for 180 DAY OP TIME IN WYLE REPORT 17464-1202

APPLICABLE ENV. ZONES
RAD B, D, G, H, T
T/P 01, 03, 18, 22

RADIATION AGING (R: Pages 4-2, 4-4 and Appendix B)
DOSE RATE .51×10^6 and .8×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.013×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2.013×10^8 RADS

THERMAL AGING (R: Pages 4-1, 9-3 9-4)
AGED TO SIMULATED LIFE OF Zone 22 only 499 * 55 YRS.
BASED ON AMBIENT TEMP OF Zone 22 only 150 * 104 °F
AGING TEMP./DURATION 268°F / 12 Days
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.
* See Wyle Lab. Thermal Aging Analysis, Wyle Report 17464-1202 page 2

CYCLE AGING (R: Page 4-3)
CYCLES REQUIRED 40,000
CYCLES PERFORMED 40,000
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 8/18/81

R: Test Report Page No. Reference -

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 235-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Loop Level Pumps
SPEC. NO. 235 P.O. 310545 VENDOR Goulds Pumps Inc.
TEST ITEM DESC. Westinghouse motors
MAKE Westinghouse MODEL Frame 213T
VENDOR TEST REPORT NO. Westinghouse Qualification Document No MHS912
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 334-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 235-01
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable for NUREG 0588 Cat. I.
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: page 4,5,7, 8.)

1. Inspection of motorettes
2. Aging simulation
3. Voltage tests
4. Irradiation
5. Moisture Exposure
6. Vibration (Mechanical stress exposure)
8.
9.
10.

TEST ENVIRONMENT (R: page 7)

TIME 7533 Hours (313.8 Days)
TEMP. °F 210°C (410°F)
PRES. PSIG
R.H. 100 % (spray)
OP. TIME DEMO 313.8 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD G
T/P 01

RADIATION AGING (R: Appendix B)
DOSE RATE 0.4×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.8×10^8 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 2.8×10^8 RADS

THERMAL AGING (R: page 7, 9)
AGED TO SIMULATED LIFE OF over 150 YRS.
BASED ON AMBIENT TEMP OF (130°C) 268 °F
AGING TEMP. DURATION (210°C) 410°F, 7533 Hours
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: N/A)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinshteyn DATE 3/17/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 248-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1 REV 1

SPEC. TITLE MISCELLANEOUS TRANSFORMERS
SPEC. NO. SHI-248 P.O. 310739 VENDOR MAGNETICS
TEST ITEM DESC. 480 - 120/240V AC TRANSFORMERS
MAKE MAGNETICS MODEL L-12514
VENDOR TEST REPORT NO. -NONE-
APPLICABLE STANDARDS
IEEE 323-1971
IEEE
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. NONE
TEST METHOD ANALYSIS
DOCUMENTATION ACCEPTABILITY
QUALIFIED TO NUREG 0588, CAT II BY WYLE ANALYSIS 17464-1302
QUALIFIED LIFE 40 YEARS

TEST SEQUENCE (R: NO ENVIRONMENTAL TESTING PERFORMED)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R:)

TIME
TEMP. °F
PRES. PSIG
R.H. %
OP. TIME DEMO ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD
T/P

RADIATION AGING (R: N/A)

DOSE RATE RAD/HR
DOSE PRIOR TO ENV. TEST RADS
DOSE DURING ENV. TEST RADS
TOTAL DOSE RADS

CYCLE AGING (R: N/A)

CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: WYLE ANALYSIS 17464-1302

AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP CF 104° °F
AGING TEMP./ DURATION — / —
REL. HUMIDITY — %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

REVIEWER: WR Shosho DATE: 12-1-81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 270-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE AXIAL FLOW FANS

SPEC. NO. SHI-270 P.O. 310550 VENDOR BUFFALO FORGE CO.

TEST ITEM DESC. MOTORETTES

MAKE WESTINGHOUSE MODEL L43TCZ

VENDOR TEST REPORT NO. WESTINGHOUSE Nº MM-9112 (PREV. WCAP-9112).

APPLICABLE STANDARDS

IEEE STD 323-1974

IEEE STD 334-1974

IEEE

NUREG 0588 CAT.

TEST REPORT NO. TR-270-01

TEST METHOD SEQUENTIAL-AFBMA STD. 9-1972

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS.

TEST SEQUENCE (R: PAGES 6,7,8 OF REPORT MM-9112.)

1. THERMAL AGING
2. GAMMA RADIATION EXPOSURE
3. MECH. STRESS EXPOSURE.
4. MOISTURE EXPOSURE
5. HIGH POTENTIAL TEST
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: MM-9112, PAGE 7.)

TIME	7533 HRS. (313.8 DAYS).
TEMP. °F	410°F (210°C).
PRES. PSIG	ATMOSPHERIC
R.H.	100 %
OP. TIME DEMO	313.8 DAYS
ACC/PERF DEMO	N/A

APPLICABLE ENV. ZONES

RAD K

T/P 15

RADIATION AGING (R: MM-9112, APP. B Pgs. 1, 2, 3.)

DOSE RATE 0.4 x 10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 278.7 x 10^6 RADS

DOSE DURING ENV. TEST — RADS

TOTAL DOSE 278.7 x 10^6 RADS

CYCLE AGING (R: MM-9112, Pg. 4, Par. 2.6.6 Pg. 9, Par. 2.10.6.3 & 2.10.7(b))

CYCLES REQUIRED —

CYCLES PERFORMED 14
(Electro-Mechanical Equip. only)

THERMAL AGING (R: MM-9112 Pg. 9, Par. (a)(c))

AGED TO SIMULATED LIFE OF OVER 150 YRS.

BASED ON AMBIENT TEMP OF (130°C) 266 °F

AGING TEMP./ DURATION 210°C (410°F) / 7533 HRS.

REL. HUMIDITY 100 %

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Minnie Jaffri DATE: 4/21/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 276-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1 REV 1

SPEC. TITLE UNIT COOLERS

SPEC. NO. SHI-276 P.O. 310556 VENDOR BUFFALO FORGE

TEST ITEM DESC. MOTOR & MOTORETTE

MAKE WESTINGHOUSE MODEL 43TCZ

VENDOR TEST REPORT NO. DO-146F REV T

APPLICABLE STANDARDS

IEEE STD 323-1974

IEEE STD 334-1974

IEEE STD 344-1975 & 117-1974

NUREG 0588 CAT. I

TEST REPORT NO. TR-276-01

TEST METHOD SEQUENTIAL

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS W/ BEARING & LUBE MAINTENANCE

TEST SEQUENCE (R: Page 5)

1. SEISMIC (CALC)
2. FACTORY TESTS
3. THERMAL AGING
4. IRRADIATION
5. MECHANICAL AGING
6. DBE TEST
7. ELECTRICAL INSULATION TEST.
8. FINAL INSPECTION
9.
10.

TEST ENVIRONMENT (R: Appendix 8, Page 4)

TIME	30 DAYS
TEMP. °F	227°F
PRES. PSIG	3.3
R.H.	100 %

OP. TIME DEMO 30 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD L

T/P 02

RADIATION AGING (R: Page 3)

DOSE RATE _____ RAD/HR

DOSE PRIOR TO ENV. TEST _____ RADS

DOSE DURING ENV. TEST _____ RADS

TOTAL DOSE 1×10^8 RADS

THERMAL AGING (R: Page 5)

AGED TO SIMULATED LIFE OF 40 YRS.

BASED ON AMBIENT TEMP OF 266 °F

AGING TEMP./ DURATION 410° F / 1370 HRS

REL. HUMIDITY NOT ADDRESSED %

NOT AGED-JUSTIFIED BY ANALYSIS TO — YRS.

CYCLE AGING (R: _____)

CYCLES REQUIRED N/R

CYCLES PERFORMED _____
(Electro-Mechanical Equip. only)

REVIEWER: William R. Shuler DATE: 3/22/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 276-02
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE UNIT COOLER FANS

SPEC. NO. 5M1-276 P.O. 310556 VENDOR BUFFALO FORGE CO.

TEST ITEM DESC. WESTINGHOUSE MOTORS.

MAKE WESTINGHOUSE MODEL 143TCZ

VENDOR TEST REPORT NO. WESTINGHOUSE REPORT MM-9112 (PREV. WCAP-9112)

APPLICABLE STANDARDS

IEEE 323-1974

IEEE 334-1974

IEEE

NUREG 0588 CAT.

TEST REPORT NO. 276-01

TEST METHOD SEQUENTIAL-AFBMA STD. 9-1972

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS.

TEST SEQUENCE (R: MM-9112, PAGES 6, 7, 8)

1. THERMAL AGING
2. GAMMA RADIATION EXPOSURE
3. MECH. STRESS EXPOSURE
4. MOISTURE EXPOSURE
5. HIGH POTENTIAL TEST
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: MM-9112, PG. 7.)

TIME 7533 HOURS (313.8 DAYS)

TEMP. °F 410°F (210°C)

PRES. PSIG ATMOSPHERIC

R.H. 100 %

OP. TIME DEMO 313.8 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD G

T/P 01

RADIATION AGING (R: (N) MM-9112 APP. B PAGES 1, 2, 3)

DOSE RATE 0.4×10^8 RAD/HR

DOSE PRIOR TO ENV. TEST 2.78×10^8 RADS

DOSE DURING ENV. TEST — RADS

TOTAL DOSE 2.78×10^8 RADS

CYCLE AGING (R: MM-9112, PG. 4, PAR. 2.6.6, PG. 9 PAR. 2.10.6.3 & 3.10.7(b))

CYCLES REQUIRED

CYCLES PERFORMED 14
(Electro-Mechanical Equip. only)

THERMAL AGING (R: MM-9112 PG. 9 PAR. 2.10.7(a)(c))

AGED TO SIMULATED LIFE OF 150 YRS.

BASED ON AMBIENT TEMP OF 266°F (130°C) °F

AGING TEMP./ DURATION 410°F (210°C) / 7533 HRS.

REL. HUMIDITY 100 %

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Minnie Joffe DATE: 4/21/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 289-03
SHOREHAM NUCLEAR POWER STATION-UNIT 1 REV. 1 5/8/82

SPEC. TITLE Hydrogen Recombiner
SPEC. NO. 289 P.O. 310624 VENDOR Reliance Electric Company
TEST ITEM DESC. Recombiner Blower motors
MAKE Reliance Electric Company MODEL 324T
VENDOR TEST REPORT NO. LIMITORQUE # 600456; RELIANCE NUC-9
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 334-1974
IEEE 344-1975
NUREG 0588 CAT. I
TEST REPORT NO 289-03, Rev. 1.
TEST METHOD. Sequential Qualification Test
DOCUMENTATION ACCEPTABILITY: Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: page 3 through 11, Limitorque # 600456)

1. Thermal Aging
2. Mechanical Aging
3. Radiation Aging
4. Seismic Testing
5. Radiation Exposure
6. LOCA Test
7. Visual Inspection
8. Post LOCA Load Cycling Test
9. Final Inspection
10.

TEST ENVIRONMENT (R: FIGURE #6, Pg 14, LIMITORQUE # 600456 FIGURE #7, #8 STRIPCHART RECORDS)

TIME	0-33 MIN	33 MIN to 3.7 HR	3.7 HR To 4.1 HR	4.1 HR To 5.1 HR	5.1 HR To 96 HR	To 30 DAY
TEMP. °F	295°	DECAY TO 120°	310°	DECAY TO 250	250	192
PRES. PSIG	78	DECAY TO 0	81	-	30	10

R.H. 100 % steam/chemical spray
OP. TIME DEMO 30 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD J
T/P 13, 16

RADIATION AGING (R: Limitorque # 600456, Page 6)
DOSE RATE 1 x 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.04 x 10^8 RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2.04 x 10^8 RADS

CYCLE AGING (R: I, page 11)
CYCLES REQUIRED -
CYCLES PERFORMED 1208
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Limitorque 600456 pg 3 (NUC-9 Page 5, 6, 7))
AGED TO SIMULATED LIFE OF Greater than 40 YRS.
BASED ON AMBIENT TEMP OF 104 °F
AGING TEMP./ DURATION 355°F, 100 Hours
REL. HUMIDITY Not controlled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A

REVIEWER: M. Grinshteyn
REV 1 5/8/1982
DATE: 1-6-82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 310-01, Revision "1" Date: 5/10/82.
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electric Motor Operated Control Valves
SPEC. NO. 310 P.O. 310736 VENDOR Fisher Controls
TEST ITEM DESC. Electric Motor Operated Valve Actuator
MAKE Harold Beck and Sons MODEL 14-101-023645 (ES)
VENDOR TEST REPORT NO. Not Assigned
APPLICABLE STANDARDS
IEEE 382-1972
IEEE 323-1974
IEEE
NUREG 0588 CAT. N/A
TEST REPORT NO. 310-01 Rev. "1"
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Not Acceptable
QUALIFIED LIFE Not Established

TEST SEQUENCE (R: Page R-7)

1. Mechanical Aging
2. Radiation Aging
3. Functional Test
4. Seismic Test
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Not Performed)

TIME
TEMP. °F
PRES. PSIG
R.H. Not Addressed %
OP. TIME DEMO None ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD G, H, K, N
T/P 1, 2, 15, 16, 18, 20

RADIATION AGING (R: Attach 1 to Wyle Report 17464-1402)
DOSE RATE 1x10⁶ RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
* 1x10⁷ for ESR Board
TOTAL DOSE 2.2x10⁸ for remainder RADS

THERMAL AGING (R: Wyle Report 17464-1402 Section 3.0)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 185 °F
AGING TEMP./ DURATION 0/0
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO >40 YRS.
* Thermal Aging data not available on all materials

CYCLE AGING (R: Page R-7)
CYCLES REQUIRED 500
CYCLES PERFORMED 16,588
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 1/4/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 318-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Air Operated Control Valves
SPEC. NO. 318 P.O. 310735 VENDOR Copes Vulcan
TEST ITEM DESC. Solenoid Valve
MAKE ASCO MODEL NP8320A184E
VENDOR TEST REPORT NO. AQS-21678/TR Rev A, Wyle report 17464-1202
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 232-01
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years - coil & elastomer change every 4 years

TEST SEQUENCE (R: Pages 3-1, 3-2)

1. * Baseline/Functional
2. Thermal Aging
3. Radiation
4. Wear Aging
5. Seismic Simulation/Vibration End.
6. Accident Radiation
7. LOCA Simulation
8.
9.
10.

* Before and After each Type Test phase

TEST ENVIRONMENT (R: Pages 4-4, 4-5 and Fig 2 page 4-21)

TIME	3 HRS	3 HRS	3 HRS	85 HRS	26 DYS
TEMP. °F	346	346	320	250	200
PRES. PSIG	110	110	75	15	10

R.H. (SPRAY) 100
OP. TIME DEMO 180 DYS * ACC/PERF DEMO N/A
* Analysis for 180 DAY OP. TIME IN WYLE REPORT 17464-1202

APPLICABLE ENV. ZONES
RAD G, H, K
T/P 1, 3, 7, 15, 18

RADIATION AGING (R: Pages 4-2, 4-4 and Appendix b)
DOSE RATE .51×10^6 and .8×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.013×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2.013×10^8 RADS

THERMAL AGING (R: Pages 4-1, 9-3, 9-4)
AGED TO SIMULATED LIFE OF * 55 YRS.
BASED ON AMBIENT TEMP OF * 104 °F
AGING TEMP./ DURATION 268°F / 12 Days
REL. HUMIDITY Uncontrolled *
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.
* See Wyle Lab. Thermal Aging Analysis, Wyle Report 17464-1202 page 2

CYCLE AGING (R: Page 4-3)
CYCLES REQUIRED 40,000
CYCLES PERFORMED 40,000
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 8/18/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 318-02
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Air Operated Control Valves
SPEC. NO. 318 P.O. 310735 VENDOR Copes Vulcan
TEST ITEM DESC. Solenoid Valve
MAKE ASCO MODEL HVA 206-380-3RF
VENDOR TEST REPORT NO. AQS-21678/TR Rev A, Wyle Reports 17464-06 & 17464-0602
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 232-01
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years - coil & elastomer change every 4 years

TEST SEQUENCE (R: Pages 3-1, 3-2)

1. * Baseline/Functional
2. Thermal Aging
3. Radiation
4. Wear Aging
5. Seismic Simulation/Vibration End.
6. Accident Radiation
7. LOCA Simulation
8.
9.
10.

* Before and after each Type Test phase

TEST ENVIRONMENT (R: Pages 4-4, 4-5 and Fig 2 page 4-21)

TIME	3 HRS	3 HRS	3 HRS	85 HRS	26 DYS
TEMP. °F	346	346	320	250	200
PRES. PSIG	110	110	75	15	10

R.H. 100 (SPRAY) %
OP. TIME DEMO 180 DYS * ACC/PERF DEMO N/A
* Analysis for 180 Day Op time in Wyle Report 17464-0602

APPLICABLE ENV. ZONES
RAD G
T/P 2, 6, 12

RADIATION AGING (R: Pages 4-2, 4-4 and Appendix D)
DOSE RATE .51 × 10^6 and .8 × 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.013 × 10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2.013 × 10^8 RADS

CYCLE AGING (R: Page 4-3)
CYCLES REQUIRED 40,000
CYCLES PERFORMED 40,000
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Pages 4-1, 9-3, 9-4)
AGED TO SIMULATED LIFE OF * 55 YRS.
BASED ON AMBIENT TEMP OF * 104 °F
AGING TEMP./ DURATION 268°F / 12 Days
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.
* See Wyle Lab Thermal Aging Analysis, Wyle report 17464-0602 page 2

REVIEWER: Ron M Snyder DATE: 8/18/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 319-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE AUTOMATIC TEMPERATURE CONTROL SYSTEMS FOR HVAC
SPEC. NO. SHI-319 P.O. 310738 VENDOR MCC POWERS
TEST ITEM DESC. SEE ATTACHMENT #1
MAKE SEE ATTACHMENT #1 MODEL SEE ATTACHMENT #1
VENDOR TEST REPORT NO. WYLE # 44540-1
APPLICABLE STANDARDS
IEEE 323-1971, 1974
IEEE
IEEE
NUREG 0588 CAT. II
TEST REPORT NO. TR-319-01
TEST METHOD TYPE TEST
DOCUMENTATION ACCEPTABILITY SEE ATTACHMENT #2
QUALIFIED LIFE SEE ATTACHMENT #2

TEST SEQUENCE (R: Pg No. LLL, LV, V, VI)

1. INITIAL FUNCTION TEST
2. SERVICE CONDITION SIMULATION + AGING
3. POST AGING OPERATIONAL CHECK
4. RADIATION EXPOSURE
5. POST RADIATION OPERATIONAL CHECK
6. SEISMIC TEST
7. POST SEISMIC OPERATIONAL CHECK
8. SIMULATED POST ACCIDENT CONDITIONS
9. FINAL FUNCTIONAL TEST
10.

TEST ENVIRONMENT (R: SECTION VIII-1)

TIME	1HR	1DAY	9DAYS	1HR	20DAYS	
TEMP. °F	170	122	122	200	122	
PRES. PSIG	1	0	0	1	0	
R.H. %	100	90	60	100	60	

OP. TIME DEMO 722 HRS ACC/PERF DEMO SEE ATTACHMENT #2

APPLICABLE ENV. ZONES
RAD H, K
T/P B;18

RADIATION AGING (R: SECT IV-1)
DOSE RATE 1000 RAD/HR
DOSE PRIOR TO ENV. TEST 1×10^7 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 1×10^7 RADS

THERMAL AGING (R: SECTION II-1)
AGED TO SIMULATED LIFE OF 5YRS THERMAL, 5YRS OPER.-TWICE 10 YEARS TOTAL
BASED ON AMBIENT TEMP OF 75°F (SECTION XI-6) °F
AGING TEMP./ DURATION 180°F / 1344 HRS
REL. HUMIDITY 50 TO 90 %
~~NOT AGED~~ JUSTIFIED BY ANALYSIS TO SEE ATTACHMENT #2

CYCLE AGING (R: SECTION II-16,17)
CYCLES REQUIRED NOT ADDRESSED
CYCLES PERFORMED SEE ATTACHMENT #1
(Electro-Mechanical Equip. only)

REVIEWER: William R Stodo DATE: 9/21/81

R: Test Report Page No. Reference

Attachment 1. to SH1-319-01, EQSS No. 319-01

Test Item, Cycles Performed.	Manufacturer	Model No.
1. Differential Pressure Switch; 7400 Times cycled.	Dwyer Instruments Inc	1627-1
2. Veltron Transmitter, 7400 Times cycled.	Air monitor Corporation.	800/P232-1212
3. Electric Actuator; Cycling incompeete.	Raymond Control System, Inc.	MASR-9/49.
4. Air Cylinder Actuator 7400 Times cycled	Centerline, Inc.	32046-6
5. Power Stroke Motor 7400 Times cycled.	MCC Powers	331-2792

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 319-02, Revision A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Auto Temp. Control System for HVAC
SPEC. NO. SHI-319 P.O. 310738 VENDOR MCC Powers
TEST ITEM DESC. Damper Actuator
MAKE ITT General Controls MODEL NH 91
VENDOR TEST REPORT NO. 377-80.010-A, Revision 0,
APPLICABLE STANDARDS
IEEE 323 -1974
IEEE 344 -1975
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 319-02, Revision A.
TEST METHOD Sequential test, Analysis
DOCUMENTATION ACCEPTABILITY Must be used in conjunction with Wyle reports No. 17464-3201, 3202
QUALIFIED LIFE 1.76 years (Refer 3 of EQREF)

TEST SEQUENCE (R: 1, p. 2-5)

1. Initial Inspection and Functional Tests.
2. Service condition simulation and Aging Tests.
3. Irradiation Tests
4. Seismic Vibration Tests
5. Simulated LOCA Conditions Tests.
6. Final Inspection and Functional Tests.
7.
8.
9.
10.

TEST ENVIRONMENT (R: 1, p.5.)

TIME	30 Days	100 Days
TEMP. °F	122°F	150°F
PRES. PSIG	Not Addressed	

R.H. 90, 95 %
OP. TIME DEMO 100 Days* ACC/PERF DEMO 10°C
*comment 1 of EQREF (page 4)

APPLICABLE ENV. ZONES
RAD H
T/P 20

RADIATION AGING (R: 1, p.3)
DOSE RATE ≈1.6 x 10^4 RAD/HR
DOSE PRIOR TO ENV. TEST 4 x 10^5 RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 4 x 10^5 RADS

CYCLE AGING (R: 1, p. 3)
CYCLES REQUIRED N/A
CYCLES PERFORMED 87,360
(Electro-Mechanical Equip. only)

THERMAL AGING (R: 1, p. 3, 15)
AGED TO SIMULATED LIFE OF 10** YRS.
BASED ON AMBIENT TEMP OF 75** °F
AGING TEMP./ DURATION 185°F** / 100 Days**
REL. HUMIDITY 50 %
NOT AGED-JUSTIFIED BY ANALYSIS TO ____ YRS.
** comment 2 of EQREF (page 4)

REVIEWER: M. Grinshteyn DATE: 2-10-82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 319-03
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE AUTO TEMP CONTROL SYSTEM FOR HVAC

SPEC. NO. SH1-319 P.O. 310738 VENDOR MCC POWERS

TEST ITEM DESC. SOLENOID VALVE

MAKE ASCO MODEL WJKHX8320 & 89E

VENDOR TEST REPORT NO. AQS-21678/TR REV A, WYLE REPOR 964-1202

APPLICABLE STANDARDS

IEEE 323-1974

IEEE

IEEE

NUREG 0588 CAT. I

TEST REPORT NO. 23

TEST METHOD SEQUENTIAL TEST/ANALYSIS

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS COIL + ELASTOMER CHANGE EVERY 4 YRS

TEST SEQUENCE (R: Pages 3-1, 3-2)

1. * BASELINE/FUNCTIONAL
2. THERMAL AGING
3. RADIATION
4. WEAR AGING
5. SEISMIC SIMULATION/VIBRATION
6. ACCIDENT RADIATION
7. LOCA SIMULATION
8.
9.
10.

* BEFORE AND AFTER EACH TYPE TEST PHASE

TEST ENVIRONMENT (R: Pages 4-4, 4-5, FIG 2-Page 4-21)

TIME	3 HRS	3HRS	3HRS	85 HRS	26 DYS
TEMP. °F	346	346	320	250	200
PRES. PSIG	110	110	75	15	10

R.H. 100 (SPRAY) %

OP. TIME DEMO 70 MIN ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD H, K

T/P 15, 18

RADIATION AGING (R: Pages 4-2, 4-4 & APP D)

DOSE RATE .51 x 10^6 & .8 x 10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 2.013 x 10^8 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 2.013 x 10^8 RADS

CYCLE AGING (R: Pg 4-3)

CYCLES REQUIRED 40,000

CYCLES PERFORMED 40,000

(Electro-Mechanical Equip. only)

THERMAL AGING (R: Pg 4-1, 9-3, 9-4)

AGED TO SIMULATED LIFE OF * 55 YRS.

BASED ON AMBIENT TEMP OF * 150 °F

AGING TEMP./DURATION 268, 12 days

REL. HUMIDITY Uncontrolled %

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

* SEE WYLE LAB THERMAL AGING ANALYSIS #17464-1202

REVIEWER: [signature]

DATE: 9-1-81

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 344-01 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Primary Containment Gas Analyzer
SPEC. NO. 344 P.O. 310737 VENDOR Comsip Inc.
TEST ITEM DESC. Hydrogen Analyzer Sytem
MAKE Comsip Delphi MODEL K-IV and K-III
VENDOR TEST REPORT NO. Project 1035-1 Rev. 1, Sept 1981
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 344-01
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable, provided deficiencies list on page 1 of EQREF 344-01 are justified
QUALIFIED LIFE See Attachment 1

TEST SEQUENCE (R: Page 2 section 4.1.1)

1. Inspection and Operational Test
2. Thermal Aging
3. Mechanical Cycling
4. Irradiation
5. Seismic Vibration
6. Simulated Post Accident Condition
7. Final Inspection and Operational Test
8.
9. *(Functional Test were performed
10. after each test)

TEST ENVIRONMENT (R: Table F-I Page 69, Attach 2 sec 4*)

	LOCA ENV.		Sample Gas Env.		
TIME	100 DYS		9.75 HRS	106 HRS	96 DYS
TEMP. °F	150°		300°	210°	167°
PRES. PSIG	0		70	40	5

R.H. 90 I 5 %
OP. TIME DEMO 180 DYS * ACC/PERF DEMO 1% Full Scale
* Analysis for 180 Day Op. time provided in Comsip letter July 20, 1981

APPLICABLE ENV. ZONES
RAD J
T/P 15, 16

RADIATION AGING (R: Table D-III pg 37)
DOSE RATE <1x10^6 (pg 6) RAD/HR
DOSE PRIOR TO ENV. TEST 1x10^6 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 1x10^6 RADS

CYCLE AGING (R: Table D-II pg 33)
CYCLES REQUIRED Undetermined
CYCLES PERFORMED See Attach 2
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Table D-I pg 29)
AGED TO SIMULATED LIFE OF See Attach 1 YRS.
BASED ON AMBIENT TEMP OF See Attach 1 °F
AGING TEMP./ DURATION See Attach 1
REL. HUMIDITY Not addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Ron M Snyder DATE: 12/3/81

R: Test Report Page No. Reference

TABLE D-I Thermal Aging

Item	Description	Design Life t_b, Years	Design Temperature T_b, °C	Aging Time t_a, Days	Aging Temperature T_a, °C
1	Entry Exit Valve Hoke Model 4251G6Y Serial No. 2190	10	149	100	201
2	Moisture Separator Armstrong Model 11-AV Serial No. 1793	10	149	100	201
3	Gas Manifold Serial No. 3	10	149	100	201
4	Air Cooled Heat Exchanger Serial No. 4	10	149	100	201
5	Flowmeter Brooks Model 1350 Tube No. 196A Serial No. 2189	10	38	100	90
6	Flowmeter Brooks Model 1350 Tube No. 5-65A Serial No. 2189	10	38	100	90
7	Pressure Indicator Marshalltown Model 52D Serial No. 0195	10	38	100	90
8	Sample Pump Serial No. 1882	5	38	100	80
9	H_2 Analyzer Serial No. 371	5	149	100	191
10	Analyzer Electronics	5	38	100	80

TABLE D-I Thermal Aging (continued)

Item	Description	Design Life t_b, Years	Design Temperature T_b, °C	Aging Time t_a, Days	Aging Temperatur T_a, °C
11	Flow Orifice Serial No. 3356	10	149	100	201
12 A&B	Differential Pressure Switch Static O-Ring Model No. 15R3-K2-VYIC	5	38	100	80
13	Down Stream Regulator Conoflow Model H21XT-XXX R1 Serial No. 3204-15	5	149	100	191
14	Down Stream Regulator Conoflow Model H21XT-XXX R2 Serial No. 3204-16	5	149	100	191
15	Down Stream Regulator Conoflow Model H21XT-XXX R3 Serial No. 1791	5	149	100	191
16A&B	Down Stream Regulator Conoflow Model H21XT-XXX RB Serial No. 2191	5	149	100	191
17	Calibration & Reagent Valve ASCO Catalog No. THT8262C7E Serial No. 93415D	10	38	100	90
18A,B, C	Check Valve Circle Seal Model Serial No. 2187	10	38	100	90
19	Temperature Switch Fenwall Model 22800-0 Serial No. 7901	10	38	100	90
20	Temperature Bulb Fenwall Model 22800-0 Serial No. 21918	10	149	100	201

TABLE D-I Thermal Aging (continued)

Item	Description	Design Life t_b, Years	Design Temperature T_b, °C	Aging Time t_a, Days	Aging Temperature T_a, °C
21	Lights GE Model Et-16 Serial No. 0165A7844P5	5	38	100	80
22	Relay Potter Brumfield Model KRP11AG Serial No. 174414	10	38	100	90
23	Relay Potter Burmfield Model KRP14AG Serial No. 173308	10	38	100	90
24	Relay GE Model CR2810A 14AJ Serial No. 22D135	10	38	100	90
25	Magnetic Motor Starter GE Model CR206BO Serial No. 15D21G2	10	38	100	90
26	Switch GE Model CR2940U201 Serial No. 26	10	38	100	90
27	Terminal Strip GE Model EB5 Serial No. 27	10	38	100	90
28	Circuit Breaker ITE Pushmatic Model Serial No. 614 P1515	10	38	100	90
29	Fittings Hoke Gyrolok Model 6CM6-316	10	38	100	90
30A,B C,D	Calrod Strip Heater GE Model 2A907A102 Serial No. SS2041	10	149	100	201

TABLE D-I Thermal Aging (continued)

Item	Description	Design Life t_b, Years	Design Temperature T_b, °C	Aging Time t_a, Days	Aging Temperature T_a, °C
31	Sample Pump Motor Reliance ID No. IYF882640A20 NE	N/A	N/A	N/A	N/A
32	Current Transmitter AGM Model CD-4000 Serial No. 38-320	5	38	100	80
33	Trip Switch AGM Model CD-4004-1 Serial No. 38-213	5	38	100	80
34	Matheson Flowmeter Tube No. 600	10	38	100	90
35	Matheson Flowmeter Tube No. 601	10	38	100	90
36	Brooks Flowmeter Model 1350 Tube #646	10	38	100	90
37A	Allied Barrier Block Terminal Block Model 750R1503	10	38	100	90
37B	Allied Barrier Block Terminal Block Model 750R1503	10	149	100	201

Note: Aging times and temperatures established based on 10°C rule for known baseline design temperatures and assumed life.

Attachment 2 to EQSS-344-01

TABLE D-II Mechanical Aging

Item	Description	Design Life t_b Years	Mechanical Cycles	Cycle Rate RPM
1	Extry Exit Valve Hoke Model 4251G6Y Serial No. 2190	10	3000	10
2	Moisture Separator Armstrong Model 11-AV Serial No. 1793	10	3000	10
3	Gas Manifold Serial No. 3	10	3000	10
4	Air Cooled Heat Exchanger Serial No. 4	10	3000	10
5	Flowmeter Brooks Model 1350 Tube No. 465 Serial No. 2189	10	3000	10
6	Flowmeter Brooks Model 1350 Tube No. 5-65A Serial No. 2189	10	3000	10
7	Pressure Indicator Marshalltown Model 52D Serial No. 0195	10	3000	10
8	Sample Pump Serial No. 1882	5	3000	10
9	H_2 Analyzer Serial No. 371	5	3000	10
10	Signal Conditioner	5	3000	10

TABLE D-II Mechanical Aging (continued)

Item	Description	Design Life t_b Years	Mechanical Cycles	Cycle Rate RPM
11	Flow Orifice Serial No. 3356	10	3000	10
12	Differential Pressure Switch Static O-Ring Model No. 15R3-K2-VYIC Serial No. 78-4-1097	5	3000	10
13	Down Stream Regulator Conflow Model H21XT-XXX R1 Serial No. 3204-15	5	3000	10
14	Down Stream Regulator Conoflow Model H21XT-XXX R2 Serial No. 3204-16	5	3000	10
15	Down Stream Regulator Conoflow Model H21XT-XXX R3 Serial No. 1791	5	3000	10
16	Down Stream Regulator Conoflow Model H21XT-XXX R4 Serial No. 2191	5	3000	10
17	Calibration & Reagent Valve ASCO Catalog No. THT8262C7E Serial No. 93415D	10	3000	10
18	Check Valve Circle Seal Model Serial No. 2187	10	3000	10
19	Temperature Switch Fenwall Model 22800-0 Serial No. 7901	10	3.5×10^5	10 (1)
20	Temperature Bulb Fenwall Model 22800-0 Serial No. 21918	10	3.5×10^5	10

TABLE D-II Mechanical Aging (continued)

Item	Description	Design Life t_b Years	Mechanical Cycles	Cycle Rate RPM
21	Lights GE Model Et-16 Serial No. 0165A7844P5	5	3000	10
22	Relay Potter Brumfield Model KRP11AG Serial No. 174414	10	3000	10 (2)
23	Relay Potter Brumfield Model KRP14AG Serial No. 173308	10	3000	10 (3)
24	Relay GE Model CR2810A 14AJ Serial No. 22D135	10	3000	10 (4)
25	Magnetic Motor Starter GE Model CR206BO Serial No. 15D21G2	10	3000	10 (5)
26	Switch GE Model CR2940U201 Serial No. 26	10	3000	10 (6)
27	Terminal Strip GE Model EB5 Serial No. 27	10	3000	10
28	Circuit Breaker ITE Pushmatic Model Serial No. 614 P1515	10	3000	10 (7)
29	Pittings Hoke Gyrolok Model 6CM6-316	10	N/A	N/A
30	Calrod Strip Heater GE Model 2A907A102 Serial No. SS2041	10	N/A	N/A

TABLE D-II Mechanical Aging (continued)

Item	Description	Design Life t_b Years	Mechanical Cycles	Cycle Rate RPM
31	Sample Pump Motor Reliance ID No. 1YF882640A20	N/A	N/A	N/A
32	Current Transmitter AGM Model CD-4000 Serial No. 38-320	5	3000	10
33	Trip Switch AGM Model CD-4004-1 Serial No. 38-213	5	3000	10
34	Matheson Flowmeter Tube No. 600	10	3000	10
35	Matheson Flowmeter Tube No. 601	10	3000	10

Note:
(1) To be cycled under normal load
(2) To be cycled under normal load
(3) To be cycled under normal load
(4) To be cycled under normal load
(5) To be cycled under normal load
(6) To be cycled under normal load
(7) To be cycled under normal load

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 344-01A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Primary Containment Gas Analyzer
SPEC. NO. 344-01 P.O. 310737 VENDOR Comsip Inc.
TEST ITEM DESC. Motorette
MAKE Reliance MODEL RN and RH insulation
VENDOR TEST REPORT NO. NUC-9
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 334-1974
IEEE
NUREG 0588 CAT.
TEST REPORT NO. 344-01A
TEST METHOD Type Test/Analysis
DOCUMENTATION ACCEPTABILITY
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Section 1, pages 5 and 6)

1. Temperature Exposure
2. Mechanical Vibration
3. Moisture Exposure
4. Voltage Checks
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: LOCA Test not required)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD J
T/P 15, 16

RADIATION AGING (R: Section 1, pg 14)

DOSE RATE 1×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2.04×10^8 RADS

CYCLE AGING (R: Section 1, pg 14)

CYCLES REQUIRED
CYCLES PERFORMED 1208
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Section 2, Fig 2)

AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF 104 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO * 3.38×10^6 YRS.

* This number obtained by substituting 40°C (104°F) in the life equation provided by Reliance in Section 2, figure 2

REVIEWER: Ron M Snyder DATE: 12/3/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 406-01, Revision "1" 5/8/82.
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE ELECTRONIC TRANSMITTERS AND RTD's

SPEC. NO. SHI-406 P.O. 310773 VENDOR ROSEMOUNT

TEST ITEM DESC. PRESSURE TRANSMITTER

MAKE ROSEMOUNT MODEL 1153 SERIES B

VENDOR TEST REPORT NO. 108025, 108026 (2 VOLUMES, 4 APPENDICES)

APPLICABLE STANDARDS

IEEE 323-1974

IEEE 344-1975

IEEE

NUREG 0588 CAT. I

TEST REPORT NO. 406-01, Revision "1"

TEST METHOD SEQUENTIAL TEST

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 3.9 YEARS @ 104°F

TEST SEQUENCE (R: Appendix II of 108026 (Rosemount Procedure # 1802)

1. Acceptance Test Verification
2. Design Verification Test
3. Accelerated Aging Thermal
4. Accelerated Aging Functional
5. Baseline Check
6. Radiation Aging & Abnormal
7. Seismic Aging
8. Seismic Abnormal
9. Steam / Temperature Test
10. Post Accident Operation & Base Check

TEST ENVIRONMENT (R: Volume I of 108026)

TIME	25.5 min	8 Hrs 17.5 min	57 Hrs
TEMP. °F	318	318	265
PRES. PSIG	72	73	24

R.H. 100%

OP. TIME DEMO 65 HRS 33 min ACC/PERF DEMO 8%

APPLICABLE ENV. ZONES

RAD G, J

T/P 2, 10, 12, 15

RADIATION AGING (R: Pg 56, Volume I)

DOSE RATE 2×10^6 to 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 2.62×10^7 To 2.88×10^7 RADS

DOSE DURING ENV. TEST 0 RADS

TOTAL DOSE 2.62×10^7 to 2.88×10^7 RADS

CYCLE AGING (R: Pg 32, Appendix II)

INPUT PRESSURE

CYCLES REQUIRED –

CYCLES PERFORMED 8030

(Electro-Mechanical Equip. only)

THERMAL AGING (R: Pg. 39, Report 108029)

AGED TO SIMULATED LIFE OF 2 YRS.

BASED ON AMBIENT TEMP OF 120 °F

AGING TEMP./ DURATION 203°F, 1,110 HRS

REL. HUMIDITY NOT ADDRESSED

NOT AGED-JUSTIFIED BY ANALYSIS TO – YRS.

REVIEWER: William R Shuler DATE: 9-9-81

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 406-02, Revision 1" 5/8/1982.
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Electronic Transmitters and Resistance Temperature Detectors.
SPEC. NO. 406 P.O. 310773 VENDOR Rosemount, Inc.
TEST ITEM DESC. Pressure Transmitter.
MAKE Rosemount, Inc. MODEL 1152 output code "E"
VENDOR TEST REPORT NO. 38019 Revision A, 8805, 9802C; 117415 Rev. B · 127516.

APPLICABLE STANDARDS
IEEE 323-1971
IEEE 344-1975
IEEE
NUREG 0588 CAT. II

TEST REPORT NO. 406-02, Rev. "1"
TEST METHOD Separate Tests/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable for NUREG-0588, Cat. II.
QUALIFIED LIFE 2 years 10 month - to operate 1 Day
1 year 11 month - to operate 180 Day an accident

TEST SEQUENCE (R: page 3 of 117415 Rev. B · Radiation on RMT 98022C.)

1. Thermal Aging
2. Radiation Exposure
3. Seismic Vibration
4. Steam-pressure Environment
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: page 9 of 117415 Rev. B)

TIME	10 min	1 Hour	7 Hours	42 Hours	
TEMP. °F	350	316	303	230	
PRES. PSIG	60	70	55.4	6	

R.H. 100 (Spray) %
OP. TIME DEMO 50 Hours 10 min. ACC/PERF DEMO 0.75% ACC after testing.

APPLICABLE ENV. ZONES
RAD G, L
T/P 1, 2, 10, 9

RADIATION AGING (R: page 7 of 98022C)
DOSE RATE (0.2 to 1.9 x 10^6) RAD/HR
DOSE PRIOR TO ENV. TEST 6.9×10^6 RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 6.9×10^6 RADS

CYCLE AGING (R: N/A)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: page 3 of RMT 117415)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF N/A °F
AGING TEMP./DURATION 100-0-200-100°F / 8HRS + 8HRS *
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO 2 years 10 months. (Wyle Report 17464-982) YRS.

* Two complete thermal aging test was performed. Each test 2 - 8 HRS.

REVIEWER: M. Grinshteyn DATE: 3/17/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 406-03 Revision .1" 5/8/1982.
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE RTD Assemblies
SPEC. NO. 406 P.O. 310773 VENDOR Rosemount Inc.
TEST ITEM DESC. Resistance Temperature Detector.
MAKE Rosemount Inc. MODEL 88-1491, 88-1492, 89-86-4/88-14-1; 89-86-4/88-14-3; 89-138-2/88-14-3
VENDOR TEST REPORT NO 2767, Rev. B.

APPLICABLE STANDARDS
IEEE 323-1971
IEEE 323-1974
IEEE 344-1971
NUREG 0588 CAT. II

TEST REPORT NO. 406-03
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable for NUREG 0588 Cat. II.
QUALIFIED LIFE less 1 year (primary side) 4.78 years (secondary side)

TEST SEQUENCE (R: page 5-13 per Appendix A.)

1. Initial Inspection and Calibration.
2. Gamma radiation
3. Seismic vibration.
4. Steam chemical exposure.
5. Final inspection and calibration.
6. Note: "Ice point and boiling point
7. calibration checks and insulation
8. resistance measurements
9. made following each test
10. simulation."

TEST ENVIRONMENT (R: page 11)

TIME	7min	17min	8 Hours	50 Hours	51 Hours
TEMP. °F	340	340	303	228	Ambient
PRES. PSIG	125	125	70	20	Ambient

R.H. 100 (spray)*
OP. TIME DEMO 50 Hours* ACC/PERF DEMO ±0.04°C
*By wide analysis extended for 180 Days

APPLICABLE ENV. ZONES
RAD E, H, J, K, E,
T/P 1, 2, 15, 16, 18, 20, 19, 23.

RADIATION AGING (R: page 8, Append. B)
DOSE RATE 1x10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2x10^8 RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2x10^8 RADS

THERMAL AGING (R:)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF N/A °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO less 1 year (primary side) YRS. 4.78 years (secondary side)

CYCLE AGING (R:)
CYCLES REQUIRED N/A
CYCLES PERFORMED N/A
(Electro-Mechanical Equip. only)

REVIEWER: M. Grinshteyn DATE 2-25-82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 407-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Level Switch
SPEC. NO. 407 P.O. 10042 VENDOR Magnetrol International
TEST ITEM DESC. Level Switch
MAKE Magnetrol Internat MODEL 291-MPG-X-M140C
VENDOR TEST REPORT NO. Type Test Program on Liquid Level controls (Wile Labs)
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 344-1975
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 407-01
TEST METHOD Sequential Test, Analysis
DOCUMENTATION ACCEPTABILITY Must be used in conjunction with Wyle reports No. 17464-0101, 0102
QUALIFIED LIFE 7.6 years (Ref. 3)

TEST SEQUENCE (R: I, p. 2)

1. Nuclear Radiation Damage Threshold Test.
2. Regression Analyses.
3. Baseline Functional and Hydrostatic Pressure
4. Nuclear Radiation Aging.
5. Elevated Temperature/Humidity/ Cycle Aging.
6. 75 Hz Plant Induced Vibration Test.
7. Seismic Qualification.
8. Functional Test Following Seismic.
9.
10.

TEST ENVIRONMENT (R:)

TIME	No accident test was performed.
TEMP. °F	
PRES. PSIG	

R.H. %
OP. TIME DEMO ACC/PERF DEMO

APPLICABLE ENV. ZONES
RAD G; H
T/P 03; 10; 18

RADIATION AGING (R: I, p. 140)
DOSE RATE 5.8×10^2 RAD/HR
DOSE PRIOR TO ENV. TEST 4.4×10^4 RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 4.4×10^4 RADS

CYCLE AGING (R: I; p. 147)
CYCLES REQUIRED N/A
CYCLES PERFORMED 10,040
(Electro-Mechanical Equip. only)

THERMAL AGING (R: I, p. 146; 3, p. 3.)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF N/A °F
AGING TEMP./ DURATION 300°F / 149 Hours (11 hours for accident)
*REL. HUMIDITY 95 to 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO 7.6 YRS.
*The humidity was performed for a total of 480 hours at 95-100% RH and 100°F after thermal aging test.

REVIEWER: M. Grinshteyn. DATE: 1-9-82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 423-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Air Operated Butterfly Valves
SPEC. NO. 423 P.O. 310772 VENDOR Fisher Controls
TEST ITEM DESC. Solenoid Valve
MAKE ASCO MODEL NP8320A184E
VENDOR TEST REPORT NO. AQS-21478/TR Rev A, Wyle report 17464-1202
APPLICABLE STANDARDS TEST REPORT NO. 232-01
IEEE 323-1974 TEST METHOD Sequential Test/Analysis
IEEE DOCUMENTATION ACCEPTABILITY Acceptable
IEEE
NUREG 0588 CAT. I QUALIFIED LIFE 40 years - coil & elastomer change every 4 years

TEST SEQUENCE (R: Pages 3-1, 3-2)

1. * Baseline/Functional
2. Thermal Aging
3. Radiation
4. Wear Aging
5. Seismic Simulation/Vibration End.
6. Accident Radiation
7. LOCA Simulation
8.
9.
10.

* Before and After each Type Test phase

TEST ENVIRONMENT (R: Pages 4-4, 4-5 and Fig 2 page 4-21)

TIME	3 HRS	3 HRS	3 HRS	85 HRS	26 DYS
TEMP. °F	346	346	320	250	200
PRES. PSIG	110	110	75	15	10

R.H. 100 (SPRAY) %
OP. TIME DEMO 180 DYS * ACC/PERF DEMO N/A
* Analysis for 180 DAY OP TIME IN WYLE REPORT 17464-1202

APPLICABLE ENV. ZONES
RAD G
T/P 1

RADIATION AGING (R: Pages 4-2, 4-4 and Appendix b)
DOSE RATE .51×10^6 and .8×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.013×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2.013×10^8 RADS

CYCLE AGING (R: Page 4-3)
CYCLES REQUIRED 40,000
CYCLES PERFORMED 40,000
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Pages 4-1, 9-3, 9-4)
AGED TO SIMULATED LIFE OF * 55 YRS.
BASED ON AMBIENT TEMP OF * 104 °F
AGING TEMP./ DURATION 268°F / 12 Days
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.
* See Wyle Lab. Thermal Aging Analysis, Wyle Report 17464-1202 page 2

REVIEWER: Ron M Snyder DATE: 8/18/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 V Motor Generator Set

SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis

TEST ITEM DESC. See Attached EQS nos. 439-01A,B,C,D and E

MAKE _____ MODEL _____

VENDOR TEST REPORT NO. Louis Allis 9-129576

APPLICABLE STANDARDS

IEEE _____

IEEE _____

IEEE _____

NUREG 0588 CAT. _____

TEST REPORT NO. 439-01

TEST METHOD _____

DOCUMENTATION ACCEPTABILITY Acceptable when supplemented by Wyle Lab report 17464-3902

QUALIFIED LIFE _____

TEST SEQUENCE (R: _____)

1. _____ 6. _____
2. _____ 7. _____
3. _____ 8. _____
4. _____ 9. _____
5. _____ 10. _____

TEST ENVIRONMENT (R: _____)

TIME _____

TEMP. °F _____

PRES. PSIG _____

R.H. _____ %

OP. TIME DEMO _____ ACC/PERF DEMO _____

APPLICABLE ENV. ZONES

RAD N

T/P 21

RADIATION AGING (R: _____)

DOSE RATE _____ RAD/HR

DOSE PRIOR TO ENV. TEST _____ RADS

DOSE DURING ENV. TEST _____ RADS

TOTAL DOSE _____ RADS

THERMAL AGING (R: _____)

AGED TO SIMULATED LIFE OF _____ YRS.

BASED ON AMBIENT TEMP OF _____ °F

AGING TEMP./ DURATION _____ / _____

REL. HUMIDITY _____ %

NOT AGED-JUSTIFIED BY ANALYSIS TO _____ YRS.

CYCLE AGING (R: _____)

CYCLES REQUIRED _____

CYCLES PERFORMED _____
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 1/6/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 V Motor Generator Sets
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis
TEST ITEM DESC. Winding Insulation Systems
MAKE See Attachment 1 MODEL See Attachment 1
VENDOR TEST REPORT NO. Louis Allis 9-129576
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 117-1974
IEEE 334-1974
NUREG 0588 CAT. I
TEST REPORT NO. 439-01
TEST METHOD Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A All test were performed independently)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: N/A, DBA test not required)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Section H)
DOSE RATE 4.9×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 1.1×10^9 RADS

CYCLE AGING (R: Not Required)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Section H)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF * 109 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.
* See note 1 on pages 1 thru 6 of attachment 1

REVIEWER: Ron M Snyder DATE: 6-25-81

R: Test Report Page No. Reference

7/1/81

ENGINEERING REPORT Attachment I for EQS-439-01A
page 1 of 7

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

P4-9061 INSULATION SYSTEM
ALTERNATOR ARMATURE

Magnet Wire	- Single Glass Heavy Polyimide Film
Slot Cell	- Silicone, Glass-Mica-Glass
Top Wedge	- Aramid U-Wedge
	- Silicone Resin Glass Laminate Flat Wedge
Center Wedge	- Silicone Resin Glass Laminate
End Coil Insulation	- Silicone, Glass-Mica-Glass
Sleeving	- Polyimide Coated Glass
Connection Insulation	- Glass
	- Polyimide Coated Glass Sleeving
Lacing	- Woven Glass
Tape	- Woven Glass
Varnish	- Silicone
Lead Cable	- Aramid
	- Polyimide Coated Glass

Notes:
1. Refer to item 25, par A, pg 14 of test report for data showing basis of 109°F (43°C) ambient temp.

Written By
M J Shaw

Sheet 1 of 7

LOUIS ALLIS
Litton

APPROVED BY L. Ray De Vries

DATE 5-15-81

CODE IDENT. NO. 01425

DOCUMENT NUMBER SECTION G-1

H 3186 10/7

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

P4-9135 INSULATION SYSTEM
ALTERNATOR ROTATING FIELD

Magnet Wire	- Heavy Polyimide Film (H220F)
Pole	- Silicone, Glass-Mica-Glass
Pole End Radius Block	- Silicone Resin Glass Laminate
Pole Washers	- Silicone Resin Glass Laminate
Washer Tape	- Woven Glass
Bonding Resin	- Epoxy Resin
Sleeving.	- Polyimide Coated Glass
Tie Tape	- Woven Glass
Crossover Insulation	- Silicone, Glass-Mica-Glass
Connection Tape	- Silicone, Glass-Mica-Glass
	- Woven Glass
Banding Tape	- Epoxy Resin Glass Filament Reinforced
Varnish	- Silicone
Lead Cable	- Aramid
	- Polyimide Coated Glass

Notes:
1. Refer to item 25, para B, pg 15 of test report for data showing basis of 109°F (43°C) ambient temp

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

P4-9144 INSULATION SYSTEM
ALTERNATOR EXCITER ROTATING ARMATURE

ARMATURE

Magnet Wire	- Heavy Polyimide Film (H220F)
Slot Cell	- Silicone, Glass-Mica-Glass
Top Wedge	- Silicone Resin Filled Glass Laminate
Center Wedge	- Silicone Resin Filled Glass Laminate
End Coil Insulation	- Silicone, Glass-Mica-Glass
Sleeving	- Polyimide Coated Glass
Connection Tape	- Silicone, Glass-Mica-Glass
	- Woven Glass
Lacing	- Woven Glass
Banding Tape	- Epoxy Resin Glass Filament Reinforced
Resin	- Epoxy
Varnish	- Silicone
Lead Cable	- Aramid
	- Polyimide Coated Glass

Notes:
1. Refer to item 25, para. C, pg 18, of test report for data showing basis of 109°F (43°C) ambient temp.

Written By M. Shaver

Sheet 3 of 7

Litton LOUIS ALLIS

APPROVED BY L. Mayer Paris

DATE 5-15-81

CODE IDENT. NO. 01425

DOCUMENT NUMBER

SECTION G-1

H 3186 10/7

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

P4-9144 INSULATION SYSTEM
ALTERNATOR EXCITER STATIONARY FIELD

FIELDS

Magnet Wire	-	Heavy Polyimide Film (H220F)
Ground Insulation	-	Silicone, Glass-Mica-Glass
Conductor Splice	-	Polyimide Coated Glass
Coil Leads	-	Aramid
	-	Polyimide Coated Glass
Connection Insulation	-	Woven Glass
	-	Polyimide Coated Glass
Start & Finish Leads	-	Polyimide Coated Glass
Buffer Insulation	-	Polyimide Coated Glass
Coil Insulation Tape	-	Silicone, Glass-Mica-Glass
	-	Woven Glass
Varnish	-	Silicone

Notes:
1. Refer to item 25, para D, pg 21 of test report for data showing basis of 109°F (43°C) ambient temp.

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

P4-9128 INSULATION SYSTEM
A.C. MOTOR STATOR AND
PERMANENT MAGNET PILOT EXCITER STATOR

Magnet Wire	- Heavy Polyimide Film
Slot Cell	- Silicone, Glass-Mica-Glass
Top Wedge	- Aramid U-Wedge
	- Silicone Glass Laminate Flat Wedge
Center Wedge	- Silicone Glass Laminate
End Coils	- Silicone, Glass-Mica-Glass
Sleeving	- Polyimide Coated Glass
Connection Insulation	- Woven Glass
	- Polyimide Coated Glass
Lacing	- Woven Glass
Lead Cable	- Aramid
	- Polyimide Coated Glass
Varnish	- Silicone

Notes:

1. Refer to item 25, para. E, pg 22 of test report for data showing basis of 109°F (43°C) ambient temp.

Written By [signature]	Sheet 5 of 7	LOUIS ALLIS Litton
APPROVED BY [signature] DATE 5-15-81	CODE IDENT. NO. 01425	DOCUMENT NUMBER SECTION G-1

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER'S ORDER NO. 310950

PURCHASER Long Island Lighting Co.

09P00057-0000
INSULATION SYSTEM
FEEDBACK CURRENT TRANSFORMER

Magnet Wire	- Heavy Polyimide Film
Terminals	- Tin Plated Brass
Terminal and Bracket Insulation	- Flexible Plate Mica
Tape	- Woven Glass
Varnish	- Silicone

VARNISH TREATMENT

Preheat followed by multiple dips and bakes in silicone varnish.

Notes:

1. Refer to item 15, para F, pg 23, of test report for data showing basis of 109°F (43°C) ambient temp.

Written By [signature]	Sheet 6 of 7	Litton LOUIS ALLIS
APPROVED BY [signature] DATE 5-15-81	CODE IDENT. NO. 01425	DOCUMENT NUMBER SECTION G-1

H 3186 10/79

ENGINEERING REPORT

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

VARNISH TREATMENTS
P4-400-115
A.C. STATORS

Preheat followed by multiple dips and bakes in silicone varnish.

P4-400-125
ALTERNATOR ROTATING FIELD COILS

Varnish treatment for coils, wet wound with epoxy resin and baked.
Varnish treatment for coil assembly, preheat followed by multiple dips and bakes in a silicone varnish.

P4-400-126
BRUSHLESS EXCITER ARMATURE

Preliminary varnish treatment is a preheat followed by one VPI and bake in epoxy resin before installing leads.

Final varnish treatment after leads are installed is multiple dips and bakes in silicone varnish.

P4-400-127
EXCITER FIELDS

Preliminary varnish treatment is a preheat followed by one dip and bake in silicone varnish before forming and taping operating.

Final varnish treatment is a preheat followed by multiple dips and bakes in silicone varnish after forming and taping operation.

Written By [signature]

Litton LOUIS ALLIS

APPROVED BY [signature]

DATE 5-15-81

CODE IDENT. NO. 01425

DOCUMENT NUMBER SECTION G-1

H 3186 10/79

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01B Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 V Motor Generator Sets
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis
TEST ITEM DESC. Bearing Related Elements
MAKE See Attachment MODEL See Attachment 1
VENDOR TEST REPORT NO. Louis Allis 9-129576
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 439-01
TEST METHOD Test / Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A All test were performed independently)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: DBA test not required)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Section J)
* See note 1 on attachment
DOSE RATE Not Given RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 1×10^7 RADS

CYCLE AGING (R: Section J-1)
CYCLES REQUIRED 100,000 HRS
CYCLES PERFORMED > 40 years *
(Electro-Mechanical Equip. only)
* See note 2 on attachment

THERMAL AGING (R: Section J)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF * 109 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.
* See note 3 on attachment

REVIEWER: Ron Modnyck DATE: 1/6/82

R: Test Report Page No. Reference

ENGINEERING REPORT *Attachment 1 for EQS 439-01B*

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

BEARING RELATED ELEMENTS

A. BEARING SIZE AND TYPE:

1. Motor
   Drive End - 218 SF Deep Groove Conrad Ball (1 Shield)
   Non Drive End - 216 SF Deep Groove Conrad Ball (1 Shield)

2. Alternator
   Drive End - 318SF Deep Groove Conrad Ball (1 Shield)
   Non Drive End - 318 SF Deep Groove Conrad Ball (1 Shield)

B. BEARING INSULATION:

1. Motor
   Insulating Washers - Canvas Base Phenolic
   Insulating Tape - Epoxy Resin Glass Filament Reinforced

2. Alternator
   Insulating Washers - Polyester Glass Laminate
   Insulating Tape - Epoxy Resin Glass Filament Reinforced

C. BEARING LUBRICATION: Dow Corning ®
   FS-3451 Grease
   NGLI #2

Notes:

1. *Limiting Component is bearing lubricant*
2. *The bearing life of >40 years established by analysis*
3. *Refer to page 25 of test report for data showing basis of 109°F (43°C) ambient temp*

Written By: *M G Shaver*	Sheet 1 of 1	Litton LOUIS ALLIS
APPROVED BY *Litton for Vice*	CODE IDENT. NO. 01425	DOCUMENT NUMBER
DATE 5-15-81		SECTION G-2

M 3186 10/79

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01C Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 V Motor Generator Set
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis
TEST ITEM DESC. Rotating Rectifier Assembly
MAKE See Attachment MODEL See Attachment
VENDOR TEST REPORT NO. Louis Allis 9-129576
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 650-1979
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 439-01
TEST METHOD Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable, when supplemented by Wyle Lab. report 17464-3901
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A All test were performed independently)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

TEST ENVIRONMENT (R: DBA test not required)

TIME	
TEMP. °F	
PRES. PSIG	

R.H. N/A %
OP. TIME DEMO 180 days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Section K & Wyle Report 17464-3902)
DOSE RATE Not Given RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 1×10^7 See note 1 on attach RADS

THERMAL AGING (R: Section K)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF * 109 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.
* See note 2 on attachment

CYCLE AGING (R: Not Required)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 1/6/82

R: Test Report Page No. Reference

ENGINEERING REPORT Attachment 1 for EQS-439-01C

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

ROTATING RECTIFIER ASSEMBLY

A. Diodes: "General Electric" Part No. 1N1190 (Forward) and 1N1190R (Reverse)

B Diode Support: Canvas Base Phenolic

C. Shaft Insulation: Glass-Micapaper-Glass Laminate Silicon Bonded

D. Cable: Aramid

Notes:

1. 1×10^7 RADS based on limiting component (Diodes)
2. Refer to item 25, para. H, pg 26 of test report for data giving basis for 109°F (43°C) ambient temp.
3. The effects of radiation on diodes was ~~not~~ addressed by Wyle Lab report 17464-3902

Written By	Sheet 1 of 1	Litton LOUIS ALLIS
APPROVED BY	CODE IDENT. NO.	DOCUMENT NUMBER
DATE 5-15-81	01425	SECTION G-3

H 3186 10/79

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01D Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 V Motor Generator Set
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis
TEST ITEM DESC. Static Rectifier Control Board Circuit
MAKE See Attachment MODEL See Attachment
VENDOR TEST REPORT NO. Louis Allis 9-129576
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 650-1979
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 439-01
TEST METHOD Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable when supplemented by Wyle Lab. report 17464-3901
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A All test were performed independently)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: DBA test is not required)

TIME	
TEMP. °F	
PRES. PSIG	

R.H. N/A %
OP. TIME DEMO 180 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Section L Wyle report 17464-3902)
DOSE RATE Not Given RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 4.17×10^6 See attach. note 1 on RADS

THERMAL AGING (R: Section L)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF * 109 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

CYCLE AGING (R: Not Required)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

* See note 2 on attachment

REVIEWER: Ron M Snyder DATE: 1/6/82

R: Test Report Page No. Reference

7/1/81

ENGINEERING REPORT *Attachment 1 for EQS-439-01D*

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

STATIC RECTIFIER CONTROL BOARD CIRCUIT

A. Diodes: "General Electric" Part No. 1N1190 (Forward) and 1N1190R (Reverse)

B. Insulated Diode Support: Canvas Base Phenolic

C. Cable: Aramid

D. Resistors:

1. 10 OHM - "OHMITE" Type 210

2. 21 OHM (25 Watt Tapped) - "Milwaukee Resistor Corp."

E. Terminal Board: General Purpose Black Phenolic

F. Poly Crystaline Varistor: "General Electric" Part No. V320LA40B

Notes:

1. *4.17×10^6 RADS based on limiting component (Poly Crystaline Varistor)*
2. *Refer to item 25, para. J, pg 29 of test report for data giving basis for 109°F (43°C) ambient temp.*
3. *The effects of radiation on the diodes, resistors, and Poly Crystaline Varistor is addressed by Wyle Laboratories report 17464-3901*

Written By *M J Shaw*	Sheet 1 of 1	LOUIS ALLIS Litton
APPROVED BY *LeRoy ... Peiro* DATE 5-15-81	CODE IDENT. NO. 01425	DOCUMENT NUMBER SECTION G-4

M 3186 10/7

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-01E
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480V Motor Generator Set
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis
TEST ITEM DESC. Rotating Field Clamping
MAKE See Attachment 1 MODEL See Attachment 1
VENDOR TEST REPORT NO. Louis Allis 9-129576
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 439-01
TEST METHOD Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: N/A All test were performed independently)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: N/A DBA test not required)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO N/A ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Section M)
* See note 1 on attachment 1
DOSE RATE Not Given RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE 2×10^7 RADS

CYCLE AGING (R: Not Required)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Section M)
AGED TO SIMULATED LIFE OF N/A YRS.
BASED ON AMBIENT TEMP OF * 109 °F
AGING TEMP./ DURATION N/A / N/A
REL. HUMIDITY N/A %
NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.
* See note note 2 on attachment 1

REVIEWER: Ron M Snyder DATE: 6-25-81

R: Test Report Page No. Reference

7/1/81

ENGINEERING REPORT *Attachment. 1 for EQS-439-01E*

DATE OF TEST ---

MANUFACTURER'S ORDER NO. 9-129576

PURCHASER Long Island Lighting Co.

PURCHASER'S ORDER NO. 310950

ROTATING FIELD CLAMPING

A. Coil Clamps: Canvas Base Phenolic

B. Bolt Insulation: Polyimide Resin Coated Glass

Notes:

1. 2×10^7 RADS based on limiting component (Coil Clamps)

2. Refer to item 25, para. K, pg 34, of test report for data giving basis for 109°F (43°C) ambient temp.

Written By *[signature]*	Sheet 1 of 1	LOUIS ALLIS Litton
APPROVED BY *[signature]* DATE 5-15-81	CODE IDENT. NO. 01425	DOCUMENT NUMBER SECTION G-5

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 439-02 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE 480 Volt Motor Generator Sets
SPEC. NO. 439 P.O. 310950 VENDOR Louis Allis Inc.
TEST ITEM DESC. Motor Control Panel for 480V MG Set
MAKE Gould MODEL 5600 Series
VENDOR TEST REPORT NO. CC-323.74-83 Rev 0
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 439-02
TEST METHOD Summary Report
DOCUMENTATION ACCEPTABILITY Acceptable provided the information requested on EQREF 439-02 is provided
QUALIFIED LIFE See Attachment

TEST SEQUENCE (R: N/A)

1. 6.
2. 7.
3. 8.
4. 9.
5. 10.

TEST ENVIRONMENT (R: N/A, DBA test not required)

TIME
TEMP. °F
PRES. PSIG
R.H. N/A %
OP. TIME DEMO N/A ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD N
T/P 21

RADIATION AGING (R: Page 7)

DOSE RATE See Attachment RAD/HR
DOSE PRIOR TO ENV. TEST N/A RADS
DOSE DURING ENV. TEST N/A RADS
TOTAL DOSE See Attachment RADS

THERMAL AGING (R: Page 7)

AGED TO SIMULATED LIFE OF See Attachment YRS.
BASED ON AMBIENT TEMP OF See Attachment °F
AGING TEMP./ DURATION See / Attachment
REL. HUMIDITY See Attachment %
NOT AGED-JUSTIFIED BY ANALYSIS TO See Attachment YRS.

CYCLE AGING (R: Page 7)

CYCLES REQUIRED
CYCLES PERFORMED See Attachment
(Electro-Mechanical Equip. only)

REVIEWER: Ross M Snyder DATE: 1/5/82

R: Test Report Page No. Reference

Attachment to EC 439-02

SEP / 1981

No.	Item	Cycle, Aging	Radiation Total Dose	Aging Simulated Yrs at °F	Aging Temp/Duration
1.	Cabinet Structure (MGS)	N/A	1×10^{8} RADS	40 yrs at 122°	230°F / 670.1 HRS
2.	Relay (86) HEA	Not performed	1×10^{5} RADS	Not determined	———
3.	Relay (74) 7024	27,500	2×10^{5} RADS	10 yrs at 70°-104°	212°F / 42 DYS
4.	Circuit Breaker KM	4000	1×10^{7} RADS	10 yrs at 104°	212°F / 107.4 HRS
5.	Contactor S/S A103G	1×10^{6}	1×10^{7} RADS	10 yrs at 104°	212°F / 107.4 HRS
6.	Terminal Blk. EB-25	N/A	1×10^{8} RADS	40 yrs at 104°	Analysis.
7.	Relay (59) NGV	Not performed	1×10^{5} RADS	40 yrs at 104°	Analysis
8.	Current Transformer JCS-0	N/A	1×10^{7} RADS	40 yrs at 140°	212°F / 26 weeks
9	Potential Transformer JVA-0	N/A	1×10^{7} RADS	40 yrs at 140°	212°F / 26 weeks
10.	Relay (87) HFC	Not performed	1×10^{5} RADS	40 yrs at 104°	Analysis
11.	Switch (43) C77	50,000	1×10^{6} RADS	40 yrs at 104°	Analysis
12.	Switch (CCS) 1133	1.2×10^{4}	1×10^{6} RADS	40 yrs at 104°	230°F / 808.7 HRS
13	Control Transformer 750 VA	N/A	1×10^{6} RADS	40 yrs at 104°	Analysis
14	Fuse (Form 600) A6Y	N/A	1×10^{7} RADS	10 yrs at 104°	212°F / 107.4 HRS
15.	Control Wire Vulkene Supreme	N/A	2.2×10^{8}	40 yrs at 194°	329°F / 125 HRS
16	Power Wire Okalon	N/A	2×10^{8} RADS	40 yrs at 194°	302° / 21 DYS

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 455-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Low Capacitance Fire Resistant Instrument Cable
SPEC. NO. 455 P.O. 310965 VENDOR Brand Rex Co.
TEST ITEM DESC. Coaxial Instrument Cable, XLPE insulation
MAKE Brand Rex Co. MODEL RG-11A/U ; RG-59 B/U
VENDOR TEST REPORT NO. F-C5120-2 (Brand-Rex Co./Franklin Research Ctr.)
APPLICABLE STANDARDS
IEEE 323-1974
IEEE 383-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 455-01
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Section 4, pages 4-1 thru 4-4)

1. Functional Test
2. Thermal Aging
3. Insulation Resistance Check
4. Gamma Irradiation
5. Steam/Chemical Spray Exposure
6. Final Inspection
7. High Potential Withstand Test
8.
9.
10.

TEST ENVIRONMENT (R: Page 4-3 *EQREF 455-01 page 4 comment 3)

TIME HRS	.2	2.8	.2	2.8	49	192	474
TEMP. °F	385	346	385	346	317	280	230
PRES. PSIG	66	113	66	113	70	35	10

R.H. (SPRAY) 100 %
OP. TIME DEMO 180 Days* ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD All
T/P All

RADIATION AGING (R: Page 4-1, & App B)
DOSE RATE 6.3×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^8 RADS

CYCLE AGING (R: Not Required)
CYCLES REQUIRED N/A
CYCLES PERFORMED N/A
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Pages 4-1, 5-1, & Attach 1)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 194 °F
AGING TEMP./ DURATION 277° / 168 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Ron M Snyder DATE: 4/5/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 456-01 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Containment Electrical Penetrations
SPEC. NO. 456 P.O. 310967 VENDOR Conax Corporation
TEST ITEM DESC. Instrument Penetration Assembly
MAKE Conax MODEL Instrument Penetration Assembly
VENDOR TEST REPORT NO. IPS-583

APPLICABLE STANDARDS
IEEE 317-1976
IEEE 323-1974
IEEE
NUREG 0588 CAT. I

TEST REPORT NO. 456-01
TEST METHOD Sequential Test, Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Table 4.2, page 5 ; Figure 4.1 page 5A)

1. Design Validation Test
2. Storage Simulation
3. Thermal Cycle
4. Thermal Aging
5. Radiation Exposure
6. Validation Test
7. Seismic Test
8. Validation Test
9. Design Basis Event Test
10. Validation Test

TEST ENVIRONMENT (R: Section 5.8, pg 14 : Fig 5.8.1 pg 13A)

TIME	1 Min. Transient	10 min	1.8 HRS	6 HRS	4 HRS	348 HRS
TEMP. °F	375° Peak Temp	320°	350°	340°	320°	300°
PRES. PSIG	30	—	78	70	35	35

R.H. (SPRAY) 100 %
OP. TIME DEMO 1 year ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD D, G, H
T/P 10, 11, 22

RADIATION AGING (R: Sec 5.6.1, para 5 pg 9) Wyle Analysis 17464-3002A Sec 4.0 pg 1
DOSE RATE 6.93 x 10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 1.62 x 10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 1.62 x 10^8 RADS

CYCLE AGING (R: Sec 5.6.1 para 3 pg 9)
CYCLES REQUIRED 120
CYCLES PERFORMED 120
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Section 5.6.2.3 page 10)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 248 °F
AGING TEMP./ DURATION 302°F / 100 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Ron M Snyder DATE: 2/22/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 456-02 Rev 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Containment Electrical Penetrations
SPEC. NO. 456 P.O. 310967 VENDOR Conax Corporation
TEST ITEM DESC. Penetration Adapter Module
MAKE Conax MODEL Viton "A" O-Ring Seals
VENDOR TEST REPORT NO. IPS-631

APPLICABLE STANDARDS
IEEE 317-1976
IEEE 323-1974
IEEE

TEST REPORT NO. 456-02
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable

NUREG 0588 CAT. I
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Figure 3.3 page 3)

1. Gas Leak Rate Test
2. Thermal Cycling
3. Storage Simulation
4. Age Conditioning *
5. Shipping
6. Irradiation *
7. Seismic *
8. DBE Environmental Test *
9. (* Indicates Evaluation Test
10. performed)

TEST ENVIRONMENT (R: Fig 6.10.2, pg 11A, *Wyle Analysis 17464-30020, Sec 6.0)

	2 Min	1 Min	5 Min	2 Min	6 HRS	425 HRS
TIME						
TEMP. °F	300°	350°	400°	300°	350°	266°
PRES. PSIG	55	55	55	55	55	25

R.H. 100 %
OP. TIME DEMO * 180 DYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD D, G, H
T/P 10, 11, 22

RADIATION AGING (R: Sec 6.6 pg 7)
DOSE RATE 1.5×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 1.5×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 1.5×10^8 RADS

CYCLE AGING (R: Section 6.3 pg 6)
CYCLES REQUIRED 120
CYCLES PERFORMED 120
(Electro-Mechanical Equip. only)

THERMAL AGING (R: Sec. 6.4 pg 6; Attach 1; Wyle Anal 17469-30028, Sec 3.0)
AGED TO SIMULATED LIFE OF 113 YRS.
BASED ON AMBIENT TEMP OF 150 °F
AGING TEMP./ DURATION 302° / 168 HRS
REL. HUMIDITY Uncontrolled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Ron M Snyder DATE: 2/22/82

R: Test Report Page No. Reference

7/1/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 456-02A
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Reactor Containment Electrical Penetrations
SPEC. NO. 456 P.O. 310967 VENDOR Conax Corporation
TEST ITEM DESC. Electrical Penetration Assembly
MAKE Conax MODEL LVP/C P/N 7508-10003
VENDOR TEST REPORT NO. IPS-585.3
APPLICABLE STANDARDS
IEEE 317-1976
IEEE 323-1974
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. 456-02A
TEST METHOD Sequential Test
DOCUMENTATION ACCEPTABILITY Acceptable, Vendor to submit supplemental information.
QUALIFIED LIFE Not Given

TEST SEQUENCE (R: Figure 3.4 page 3, See Attachment)

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Figure 6.20.7 page 26A)

	1st transient		2nd transient			
TIME	5 min trans.		10 min rise	10 min	9.66 HRS	315 HRS
TEMP. °F	355° peak		370°	360°	340°	310°
PRES. PSIG	70		70	70	62	30

R.H. 100 %
OP. TIME DEMO 325 HRS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD D, G, H
T/P 10, 11, 22

RADIATION AGING (R: Sec. 6.11 pg 8)
DOSE RATE 7x10^5 to 1.09x10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 1.28 x 10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 1.28x10^8 RADS

CYCLE AGING (R: Sec 6.8 pg 7)
CYCLES REQUIRED 120
CYCLES PERFORMED 120
(Electro-Mechanical Equip. only)
(Thermal Cycle Test)

THERMAL AGING (R: Section 6.9 pg 8)
AGED TO SIMULATED LIFE OF Not Stated YRS.
BASED ON AMBIENT TEMP OF Not Stated °F
AGING TEMP./ DURATION 303° / 104 HRS
REL. HUMIDITY Not Controlled %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: Ron M Lynch DATE: 2/22/82

R: Test Report Page No. Reference

CONAX CORPORATION
2300 Walden Ave., Buffalo, New York 14225

FIGURE 3.4

BF-LVP/C TEST SEQUENCE

Gas Leak Rate	(6.4.1)
Pneumatic Pressure	(6.4.2)
Continuity	(6.4.3)
Dielectric Strength	(6.4.4)
Insulation Resistance	(6.4.5)
Shipping and Storage	(6.4.8(1))
Installation Welding	(6.4.8(2))
Thermal Cycling	(6.4.8(3))
Age Conditioning (Gas Leak Rate Test)	(6.4.8(4))
Radiation Exposure	(6.4.8(5))
Evaluation Tests (Post Aging - Irradiation)	(6.4.8)
Gas Leak Rate	
Continuity	
Dielectric Strength	
Insulation Resistance	
Rated Continuous Current Heat Load Test	(6.4.7)
Rated STOL	(6.4.9)
SCI and Duration	(6.4.10)
Evaluation Tests (Post Short Circuit)	
Gas Leak Rate	(8.3)
Dielectric Strength	(8.4)
Insulation Resistance	(8.4)
Continuity	(6.4.3)
Seismic DBE	(6.4.11)
Evaluation Tests (Post Seismic)	(6.4.11)
Dielectric Strength	
Insulation Resistance	
Continuity	
Gas Leak Rate	
DBE Environmental Test	(6.4.13)
Evaluation Tests (Post DBE:LOCA)	(6.4.13)
Dielectric Strength	
Insulation Resistance	
Gas Leak Rate	
Max Duration Short Circuit	(6.4.14)
Evaluation Tests (Post M.D.S.C.)	
Continuity - (Post DBE:LOCA)	(6.4.13)
Gas Leak Rate	(6.4.14)

( ) refers to IEEE Std. 317-1976 Section

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 457-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Leakage Level Pumps.
SPEC. NO. 457 P.O. 348187 VENDOR Gould's Pumps Co.
TEST ITEM DESC. Westinghouse Motors
MAKE Westinghouse MODEL Frame 286T
VENDOR TEST REPORT NO. Westinghouse No MM-9112
APPLICABLE STANDARDS TEST REPORT NO. 457-01
IEEE 323-1974 TEST METHOD Sequential Test
IEEE 334-1974 DOCUMENTATION ACCEPTABILITY Acceptable for NUREG 0588 Cat. I.
IEEE
NUREG 0588 CAT. I QUALIFIED LIFE 40 years

TEST SEQUENCE (R: page 4; 5; 7; 8)

1. Inspection of motorettes.
2. Aging simulation
3. Voltage Tests
4. Irradiation
5. Mechanical Stress Exposure
6. Moisture Exposure
7. Voltage Test
8.
9.
10.

TEST ENVIRONMENT (R: page 7)

TIME 7533 Hours (313.8 Days)
TEMP. °F 210°C (410°F)
PRES. PSIG Atmospheric
R.H. 100 (spray) %
OP. TIME DEMO 313.8 Days ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD G
T/P 01

RADIATION AGING (R: Appendix B)

DOSE RATE 0.4×10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 2.8×10^8 RADS
DOSE DURING ENV. TEST — RADS
TOTAL DOSE 2.8×10^8 RADS

CYCLE AGING (R: N/A)

CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: page 7, 9)

AGED TO SIMULATED LIFE OF over 150 YRS.
BASED ON AMBIENT TEMP OF (130°C) 266 °F
AGING TEMP./DURATION (210°C) 410°F, 7533 Hours
REL. HUMIDITY 100 %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

REVIEWER: M. Ginshteyn DATE: 3-23-82

R: Test Report Page No. Reference

B

ENVIRONMENTAL QUALIFICATION SUMMARY NO. S1554-2-01. Revision 1 Date: 5/10/82
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Safety Related Solenoid Valves
SPEC. NO. 515 542 P.O. 310979 VENDOR Valcor Engineering Corp.
TEST ITEM DESC. Solenoid Valve
MAKE Valcor MODEL V52600-515
VENDOR TEST REPORT NO. QR 52600-5940-2
APPLICABLE STANDARDS
IEEE 323-1974
IEEE
IEEE
NUREG 0588 CAT. I
TEST REPORT NO. S1554-2-01. Rev. 1"
TEST METHOD Sequential Test/Analysis
DOCUMENTATION ACCEPTABILITY Acceptable
QUALIFIED LIFE 40 years

TEST SEQUENCE (R: Appendix XII page 45)

1. Initial Acceptance Test
2. Thermal Aging/Acceptance Test
3. Cyclic Aging/Acceptance Test
4. Radiation
5. Dielectric and Insulation Resist.
6. Seismic Simulation/Acceptance Test
7. LOCA Test/Acceptance Test
8. Disassembly and Inspection
9.
10.

TEST ENVIRONMENT (R: App IV of App XII page 4-16)
* Ref: App XII, Sec 4.2.6, page 30, Wyle Report 17464-4802

TIME	2 HRS	2 HRS	2 HRS	3 HRS	4 HRS	8 HRS	25 DYS
TEMP. °F	346	140	346	335	315	265	245
PRES. PSIG	113		113	95	69	28	13

R.H. 100 %
OP. TIME DEMO 1 year * ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD G, H, L
T/P 1, 2, 3, 10, 11, 12

RADIATION AGING (R: App XII Sec 4.2.7 / App III of App XII)
DOSE RATE 7.5×10^5 RAD/HR
DOSE PRIOR TO ENV. TEST 2×10^8 RADS
DOSE DURING ENV. TEST None RADS
TOTAL DOSE 2×10^8 RADS

THERMAL AGING (R: App XII Sec 4.2.2 Wyle Report 17464-4802)
AGED TO SIMULATED LIFE OF 40 YRS.
BASED ON AMBIENT TEMP OF 120 °F
AGING TEMP./ DURATION 318°F / 172 HRS
REL. HUMIDITY Not Addressed %
NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R: App XII Sec 4.2.3)
CYCLES REQUIRED
CYCLES PERFORMED 7500
(Electro-Mechanical Equip. only)

REVIEWER: Ron M Snyder DATE: 8/17/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 88V-01
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Rev 1

SPEC. TITLE Carbon Steel Valve - MOV

SPEC. NO. * P.O. * VENDOR * — SEE ATTACHMENT

TEST ITEM DESC. Limitorque MOV

MAKE Limitorque MODEL [AC] SMB-0-25 Reliance Class BH

VENDOR TEST REPORT NO. 80058 + App B - 600376A

APPLICABLE STANDARDS

IEEE -323-71

IEEE -382-72

IEEE

NUREG 0588 CAT. II

TEST REPORT NO.

TEST METHOD Sequential Testing + Analysis

DOCUMENTATION ACCEPTABILITY Acceptable. See comments + special conditions EQREF-88V-1

QUALIFIED LIFE ≥ 40 yrs

TEST SEQUENCE (R: pp 3-5 (600376A))

1. Thermal Aging
2. Mechanical Aging
3. Radiation Aging
4. Seismic Qualification
5. Accident Simulation
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Franklin Institute Report: FC3441 pg 3-5)

	0-3hr	3-6hr	6-9hr	9-12hr	12-13hr	13-102hr	102hr-30day
TIME							
TEMP. °F	340	Cool Down	340	320	320→252	251	200.
PRES. PSIG	105		105	77	19	15	—

R.H. 100

OP. TIME DEMO 30 days / EXTENDED BY ANALYSIS TO 890 DAYS [ATTACH 1 to EQREF 88V-01]

APPLICABLE ENV. ZONES: B, C, D, G, K, L

F/P 1, 2, 3, 5, 7, 15, 22

RADIATION AGING (R: pg 4 (600376A))

DOSE RATE 1 x 10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 204 x 10^6 RADS

DOSE DURING ENV. TEST — RADS

TOTAL DOSE 204 x 10^6 RADS

CYCLE AGING (R: pg 3,4 (600376A))

CYCLES REQUIRED 500

CYCLES PERFORMED 500
(Electro-Mechanical Equip. only)

THERMAL AGING (R: pg 3 [80058-pg 10, 11])
Only the motor stator aged

AGED TO SIMULATED LIFE OF 48 YRS.

BASED ON AMBIENT TEMP OF 158 °F

AGING TEMP./ DURATION 180°C / 100 HRS

REL. HUMIDITY Not Given

Actuator
~~NOT AGED~~-JUSTIFIED BY ANALYSIS TO >40 YRS.

Equiv. age at 158°F is determined by proportioning to thermal life figures given in 80058

REVIEWER Jim W. Smith DATE: 4/22/82

R: Test Report Page No. Reference

7/1/81

Attachment to EQSS 88V-01
REV 1

Spec No.	PO	VENDOR
SH1-88V	310502	VELAN
SH1-214	310512	VELAN
SH1-253	310512	VELAN
SH1-289	310624	ATOMICS INT.
SH1-88AD	310501	ANCHOR DARLING

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 88V-02
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Rev. 1

SPEC. TITLE CARBON STEEL MOTOR OPERATED VALVES
SPEC. NO. * P.O. * VENDOR * - SEE ATTACHED
TEST ITEM DESC. MOTOR OPERATED VALVE
MAKE LIMITORQUE MODEL SMB-0-25, Reliance, DC, Class H
VENDOR TEST REPORT NO. B0058 + App E - B0009
APPLICABLE STANDARDS
IEEE - 382-72
IEEE - 323-71
IEEE
NUREG 0588 CAT.
TEST REPORT NO.
TEST METHOD Sequential Testing
DOCUMENTATION ACCEPTABILITY Acceptable See Comments and special conditions EQREF-88V-2
QUALIFIED LIFE NOT DETERMINED

TEST SEQUENCE (R: pg 6-9 (B0009))

1. THERMAL AGING
2. MECHANICAL AGING
3. RADIATION AGING
4. SEISMIC TESTING
5. ENVIRONMENTAL TEST
6.
7.
8.
9.

TEST ENVIRONMENT (R: pg 10 (B0009))

TIME	0-1hr	1-2hr	2-4hr	4-7hr	7-25hr
TEMP. °F	120→340	340	330	310	212
PRES. PSIG	0→68	68→104	104→86	86→63	0

R.H. 100 %
OP. TIME DEMO 25hrs[1] / 5158hrs[2]
1. FOR MOTOR 2. FOR ACTUATOR (BY ANALYSIS - SEE EQREF-88V-2)

APPLICABLE ENV. ZONES
RAD G, T
T/P 1, 3, 8,

RADIATION AGING (R: pg. 7 (B0009))
DOSE RATE - RAD/HR
DOSE PRIOR TO ENV. TEST 1×10^7 RADS
DOSE DURING ENV. TEST - RADS
TOTAL DOSE 1×10^7 RADS

THERMAL AGING (R: pg. 6 + App. III (B0009))
MOTOR STATOR ONLY
AGED TO SIMULATED LIFE OF NOT DETERMINED YRS.
BASED ON AMBIENT TEMP OF NOT GIVEN °F
AGING TEMP./ DURATION 180°C / 100
REL. HUMIDITY Not Given %

CYCLE AGING (R: pg. 7 (B0009))
CYCLES REQUIRED 500 [IEEE-382]
CYCLES PERFORMED 2004
(Electro-Mechanical Equip. only)

ACTUATOR
~~NOT AGED~~-JUSTIFIED BY ANALYSIS TO 40 YRS.

REVIEWER: Kent W Smith DATE: 4/22/82

R: Test Report Page No. Reference

Attachment to EQSS 88V-02
Rev #1

SPEC. NO.	P.O.	VENDOR
SHI-88V	310502	VELAN
SHI-253	310512	VELAN

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 88V-03
SHOREHAM NUCLEAR POWER STATION-UNIT 1 Rev. 1

SPEC. TITLE Carbon Steel Valve - MOV

SPEC. NO. * P.O. * VENDOR * - SEE ATTACHMENT

TEST ITEM DESC. Limitorque MOV

MAKE Limitorque MODEL MOTOR+ACTUATOR: SMB-0-25
MOTORS [ALONE]: 25+40 ft-lb start torq
VENDOR TEST REPORT NO. B0058+AppD-B0003 Reliance, AC, Class B [ALL MOTORS]

APPLICABLE STANDARDS

IEEE - 382-1972

IEEE - 323-1971

IEEE

NUREG 0588 CAT. II

TEST REPORT NO.

TEST METHOD Sequential Testing

DOCUMENTATION ACCEPTABILITY Acceptable
See comments + special conditions - EQREF-88V-3

QUALIFIED LIFE 40 yrs

TEST SEQUENCE (R: pg 7-10 (B0003))

1. Thermal Aging
2. Mechanical Aging
3. Radiation Aging
4. Siesmic Aging
5. Environmental Test
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: pg 10 (B0003))

	0-.5hr	.5-2hr	2-24hr	24-25hr	25hr-16days
TIME					
TEMP. °F	250	250→120	250	250→200	200
PRES. PSIG	25	-	25	-	10

R.H. 100 %

OP. TIME DEMO 16 days / EXTENDED BY ANALYSIS / SEE EQREF-88V-03, ATTACH

APPLICABLE ENV. ZONES

RAD T, G, L, ST, H, P, S

T/P 01, 02, 03, 07, 08, 09, 10, 11, 12, 14, 18, ST

RADIATION AGING (R: pg 8 (B0003))

DOSE RATE 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 2×10^7 RADS

DOSE DURING ENV. TEST RADS

TOTAL DOSE 2×10^7 RADS

CYCLE AGING (R: pg 7-8 (B0003))

CYCLES REQUIRED 500

CYCLES PERFORMED 1993
(Electro-Mechanical Equip. only)

THERMAL AGING (R: pg 7 (B0003) [B0058-pg12])

AGED TO SIMULATED LIFE OF 232 days

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION 165° / 200 [199.8] hrs

REL. HUMIDITY 100 %

~~NOT AGED~~-JUSTIFIED BY ANALYSIS TO 40 YRS.
[pg 12-15 B0058]
Equiv. Age at 104°F obtained by proportioning to thermal life figures

REVIEWER: David W. Smith DATE: 4/22/82

R: Test Report Page No. Reference

(7/1/81)

Attachment to EQSS 88V-03
REV 1

Spec No.	P.O.	VENDOR
SH1-88AD	310501	ANCHOR DARLING
SH1-88V	310502	VELAN
SH1-197	310546	HENRY PRATT
SH1-203	310539	ITT GRINNELL
SH1-214	310512	VELAN
SH1-253	310512	VELAN
SH1-281	310744	CONTROMATICS

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 88V-04 REV 1 Pg 1 of 2
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE Carbon Steel Valve - MOV
SPEC. NO. SH1-88V P.O. 310502 VENDOR VELAN
TEST ITEM DESC. Motor operated valve actuator
MAKE Limitorque MODEL AC - SMB-0-25 RELIANCE Class RH
VENDOR TEST REPORT NO. B0058 + App B 600376A
APPLICABLE STANDARDS
IEEE - 323 - 1971
IEEE 382 - 1972
IEEE
NUREG 0588 CAT.
TEST REPORT NO.
TEST METHOD SEQUENCE TESTING + ANALYSIS
DOCUMENTATION ACCEPTABILITY ACCEPTABLE SEE COMMENTS & SPECIAL CONDITIONS
QUALIFIED LIFE 40 YEARS

TEST SEQUENCE (R: pp 3-5 (600376A))

1. Thermal Aging
2. Mechanical Aging
3. Radiation Aging
4. Seismic Qualification
5. Accident Simulation
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: Franklin Institute Report; FC 3441) Pg 3-5

TIME	0-3 HR	3-6 HR	6-9 HR	9-12 HR	12-13 HR	13-102 HR	102-300 Y
TEMP. °F	340	Cool	340	320	320-252	251	200
PRES. PSIG	105	DOWN	105	77	19	15	-

R.H. 100 %
OP. TIME DEMO 30 DAYS/EXTEND. BY ANALYSIS /SEE EQREF 88V-04 ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES
RAD B
T/P 22

RADIATION AGING (R: Pg 4 (600376A))
DOSE RATE 1 x 10^6 RAD/HR
DOSE PRIOR TO ENV. TEST 204 x 10^6 RADS
DOSE DURING ENV. TEST - RADS
TOTAL DOSE 204 x 10^6 RADS

THERMAL AGING (R: Pg 3 (B0058 Pg 10,11))
only motor stator aged
AGED TO SIMULATED LIFE OF 48 YRS.
BASED ON AMBIENT TEMP OF 158 °F
AGING TEMP./ DURATION 180°C, 100 HRS
REL. HUMIDITY NOT GIVEN %
ACTUATOR ~~NOT AGED~~ JUSTIFIED BY ANALYSIS TO 40 YRS.
SEE EQREF-88V-04

CYCLE AGING (R:)
CYCLES REQUIRED
CYCLES PERFORMED
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 4/22/82

R: Test Report Page No. Reference

Attachment to EQSS 88V-04

Additional documentation to qualify MOVs located in spray impingement zone.

Limitorque report no. 600456

Test Environment

Time	33min-3.75HR	3.75-4.15HR	4.15HR-5.15HR	5.15-96.1HR	96.1-97.1HR	97.1-720HR
Temp°F	295-120	310	310-245	245	245-192	192
Press psig	-	70	-	30	-	10

R.H. 100% / OP TIME 30 DAYS

Spray: Flow 1.2 gal/min

(Ref. Pg 17 of 600456)

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3018 Revision 3
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE SWITCH

MAKE BARKSDALE MODEL B1T-M12SS, B1T-M12SS-GE

VENDOR TEST REPORT NO BARKSDALE PROCEDURE 9993

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3018-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 6 YRS BY ANALYSIS

TEST SEQUENCE (R: BARKSDALE - 9993)

1. FUNCTIONAL
2. STEAM/FUNCTIONAL
3. FUNCTIONAL
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: BARKSDALE-9993)

TIME	6 HRS
TEMP. °F	212
PRES. PSIG	.25
R.H.	100%

OP. TIME DEMO 6 HRS ACC/PERF DEMO 2.3% FSPE

APPLICABLE ENV. ZONES

RAD G

T/P 1,10,12

RADIATION AGING (R: EQS Calc No 0630-001-013)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 3 x 10⁶ BY ANALYSIS RADS

THERMAL AGING (R: EQS Calc No 0630-001-013)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 6 YRS.

CYCLE AGING (R: GE APED TEST)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 1000
(Electro-Mechanical Equip. only)

REVIEWER: [signature]

DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3021 Revision 3
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE SWITCH

MAKE BARKSDALE MODEL SEE NEXT PAGE

VENDOR TEST REPORT NO. BARKSDALE PROCEDURE 9993

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3021-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 6 YRS BY ANALYSIS

TEST SEQUENCE (R: BARKSDALE 9993)

1. FUNCTIONAL
2. STEAM/FUNCTIONAL TEST
3. FUNCTIONAL TEST
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: BARKSDALE 9993)

TIME	6 HRS
TEMP. °F	212
PRES. PSIG	.25
R.H.	100% %
OP. TIME DEMO	6 HRS
ACC/PERF DEMO	8.1 % FSPE

APPLICABLE ENV. ZONES

RAD G,H

T/P 1, 10, 12

RADIATION AGING (R: EQS Calc No 0820-001-013)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 3×10^6 BY ANALYSIS RADS

THERMAL AGING (R: EQS Calc No 0630-001-014)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 6 YRS.

CYCLE AGING (R: GE APED TEST)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 1000
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 5/13/82

R: Test Report Page No. Reference

MODEL

D2H-M150SS

D2H-A150SS

D2H-M18SS

D2H-M12SS

D2H-M80SS

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3025 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE SWITCH

MAKE BARKSDALE MODEL P1H-M340SS-V, P1H-M340SSB 1

VENDOR TEST REPORT NO. BARKSDALE PROCEDURE 9993

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3025-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 6 YEARS BY ANALYSIS

TEST SEQUENCE (R: BARKSDALE 9993)

1. FUNCTIONAL
2. STEAM / FUNCTIONAL TEST
3. FUNCTIONAL
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: BARKSDALE -9993)

TIME 6 HRS
TEMP. °F 212°F
PRES. PSIG 25
R.H. 100%
OP. TIME DEMO 6 HRS ACC/PERF DEMO 1.9% FSDE

APPLICABLE ENV. ZONES

RAD G
T/P 1

RADIATION AGING (R: EDS CALC NO 0630-001-022)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 5×10^6 BY ANALYSIS RADS

THERMAL AGING (R: EDS CALC NO 0630-001-022)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104°F °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 6 YRS.

CYCLE AGING (R: GE APED TEST)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 1000
(Electro-Mechanical Equip. only)

REVIEWER: Steve Dart DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3027 Revision 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. DIFFERENTIAL PRESSURE INDICATING SWITCH

MAKE ITT BARTON MODEL 288A/289A

VENDOR TEST REPORT NO. ITT BARTON 9999.1217.2 AND R3-288A-1

APPLICABLE STANDARDS

IEEE 323-1971

IEEE 344-1975

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3027-A & 3027B

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YEARS BY ANALYSIS

TEST SEQUENCE (R: See Below)

	ITT BARTON 9999.1217.2		ITT BARTON R3-288A-1
1.	FUNCTIONAL TEST (CALIBRATION)	1	INSPECTION & FUNCTIONAL TEST
2.	STEAM TEST	2	FUNCTIONAL TEST
3.	FUNCTIONAL TEST (CALIBRATION)	3	RADIATION
4.		4	FUNCTIONAL TEST
5.		5	SEISMIC

TEST ENVIRONMENT (R: ITT BARTON 9999.1217.2)

TIME	6 HRS
TEMP. °F	212 °F
PRES. PSIG	7 IN WATER COLUMN
R.H.	100 %
OP. TIME DEMO	6 HRS
ACC/PERF DEMO	± 1%

APPLICABLE ENV. ZONES

RAD G, H

T/P 1, 2, 10, 12

RADIATION AGING (R: BARTON R3-288A-1 / EDS Calc No 0630-001-010)

DOSE RATE 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 3×10^6 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 3×10^6 BY TEST / 1×10^7 BY ANALYSIS RADS

CYCLE AGING (R: BARTON R3-288A-1)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 36

(Electro-Mechanical Equip. only)

THERMAL AGING (R: EDS Calc No 0630-001-010)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

REVIEWER: [signature] DATE: 1/11/82

3. Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3032 Revision 2
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE SWITCH

MAKE STATIC-O-RING MODEL 5N-AA3-X10STT, 6N-AA2-X10VSTT

VENDOR TEST REPORT NO. VIKING LABORATORIES TEST LETTER REPORT No 30203-1

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3032-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 6 YRS BY ANALYSIS

TEST SEQUENCE (R: VIKING = 30203-1)

1. FUNCTIONAL
2. PRESSURE/TEMPERATURE/HUMIDITY
3. INSPECTION
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: VIKING: 30203-1)

	(MID RANGE)	(HIGH RANGE)	(LOW RANGE)
TIME	6 HRS	6 HRS	6 HRS
TEMP. °F	212°F	212°F	212°F
PRES. PSIG	.25 ± .05 PSIG	.25 ± .05 PSIG	.25 ± .05 PSIG

R.H. 100%

OP. TIME DEMO 18 HRS ACC/PERF DEMO NONE REPORTED

APPLICABLE ENV. ZONES

RAD G, L

T/P 1, 2

RADIATION AGING (R: EDS Calc No 0630-001-030)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 3×10^6 BY ANALYSIS RADS

THERMAL AGING (R: EDS Calc No 0630-001-031)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 6 YRS.

CYCLE AGING (R: VIKING: 3023-1)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 27
(Electro-Mechanical Equip. only)

REVIEWER: Wayne P. Zurrain DATE: 5/13/82

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3048 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE TRANSMITTER

MAKE ROSEMOUNT MODEL SEE NEXT PAGE

VENDOR TEST REPORT NO. ROSEMOUNT REPORT NOS 117415, REV A AND 127227 REV B

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3048-A, 3048-B

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 1.4 YRS

TEST SEQUENCE (R: ROSEMOUNT : 117415, PG 3)

1. THERMAL AGING
2. RADIATION EXPOSURE
3. SEISMIC VIBRATION
4. STEAM PRESSURE ENVIRONMENT
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: ROSEMOUNT : 117415, PG 9)

TIME	10 MIN	1 HR	7 HR	42 HR
TEMP. °F	350	316	303	230
PRES. PSIG	60	70	55.4	6

R.H. 100%

OP. TIME DEMO 50 HRS, 10 MIN ACC/PERF DEMO 0.5% FS

APPLICABLE ENV. ZONES

RAD H, G

T/P 1, 5, 10, 13, 15

RADIATION AGING (R: ROSEMOUNT : 127227)

DOSE RATE 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 2×10^6 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 2×10^6 RADS

THERMAL AGING (R: WYLE : 17464-0902)

AGED TO SIMULATED LIFE OF 1.4 YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION 350°F/.17 HR ; 316°F/1 HR.; 303°F/7 HR ; 230°F/34 HR

REL. HUMIDITY 100 %

NOT AGED-JUSTIFIED BY ANALYSIS TO 1.4 YRS.

CYCLE AGING (R:)

CYCLES REQUIRED NOT REQUIRED

CYCLES PERFORMED NOT REQUIRED
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 5/12/82

R: Test Report Page No. Reference

MODEL	
1151DP4E22T0003PB	
1151DP5E22T0003PB	
1151DP5C22T0002PB	
1151DPD52MBGE2	
1151DP5A52MBGE2	
1151DP5D52MBGE2	1
1151DP5A22MBX	
1151DP4E52T0003PB	
1151DP5D22MBGE2	
1151GP4E22T0003PB	
1151GP9E22T0003PB	
1151GP6E52T0003PB	
1151AP5E22T0003PB	

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3096 Revision 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. SOLENOID VALVE

MAKE ASCO MODEL HT-X-8320-A20

VENDOR TEST REPORT NO. ROCKWELL REPORT No 2792-03-02, Rev. 1

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3096-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 Yrs BY ANALYSIS

TEST SEQUENCE (R: ROCKWELL 2792-03-02)

1. LEAKAGE TESTING
2. STEAM
3. CYCLING
4. LEAKAGE TEST
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: ROCKWELL ; 2792-03-02)

TIME	2 HRS
TEMP. °F	340
PRES. PSIG	110
R.H.	100 %

OP. TIME DEMO 2 HRS ACC/PERF DEMO LEAKAGE LO.5 SCFH

APPLICABLE ENV. ZONES

RAD D.T

T/P B.22

RADIATION AGING (R: EQS CALC No 0630-001-025)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 6×10^6 BY ANALYSIS RADS

THERMAL AGING (R: EQS CALC No 0630-001-025)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 150 °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

CYCLE AGING (R: ROCKWELL ; 2792-03-02 Pg 4)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 20,000
(Electro-Mechanical Equip. only)

REVIEWER: Steve Paff DATE: 12/28/81

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3110 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH1-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. TEMPERATURE ELEMENT

MAKE PYCO/CALIFORNIA ALLOY/NEGI MODEL GE APD 145C3224, PYCO 102-9039-08

VENDOR TEST REPORT NO. PYCO REPORT No. 122375, REV. 0

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3110-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 28.9 YRS BY ANALYSIS

TEST SEQUENCE (R: PYCO:122375)

1. THERMAL AGING
2. INSPECTION
3. RADIATION
4. INSPECTION
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: PYCO:122375)

TIME 168 HRS
TEMP. °F 250°F
PRES. PSIG ATMOSPHERIC (ASSUMED)
R.H. MOIST %
OP. TIME DEMO 168 HRS ACC/PERF DEMO NONE REPORTED

APPLICABLE ENV. ZONES

RAD G, H, K, P, ST

T/P 1, 13, 14, 15, 16, 18, 19, ST

RADIATION AGING (R: PYCO:122375)

DOSE RATE 7.5×10^5 RAD/HR

DOSE PRIOR TO ENV. TEST 2×10^8 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 2×10^8 RADS

CYCLE AGING (R:)

CYCLES REQUIRED NOT REQUIRED

CYCLES PERFORMED NOT REQUIRED
(Electro-Mechanical Equip. only)

THERMAL AGING (R: EQS CAL. No. 0620-001-017 PYCO No. 770831)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION 121°F / 7 DAYS

REL. HUMIDITY 85-95 %

NOT AGED-JUSTIFIED BY ANALYSIS TO 28.9 YRS.

REVIEWER: Wayne P. Durman DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 2111 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. ECCS PUMP MOTOR

MAKE GENERAL ELECTRIC MODEL 5K6339XC157A, 5K6339XC94A

VENDOR TEST REPORT NO. GE REPORT NOS NEDM-10672 AND 491HA988

APPLICABLE STANDARDS

IEEE 323-1971

IEEE 334-1971

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 2111-A, 2111-B

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YRS WITH ANNUAL MAINTENANCE

TEST SEQUENCE (R: GE; NEDM-10672 GE, 491HA988)

1. PRE-AGED
2. STEAM TEST
3. HI-POT TEST
4.
5.

(1) FUNCTIONAL (6) FUNCTIONAL & INSPECTION
(2) AGING
(3) RADIATION
(4) SEISMIC
(5) STEAM

TEST ENVIRONMENT (R: GE: NEDM-10677)

TIME	6 HRS	1 HR	6 HRS	86 HRS
TEMP. °F	212	AMBIENT	212	AMBIENT
PRES. PSIG	7" H_2O GAGE	AMBIENT	7" H_2O GAGE	AMBIENT

R.H. 100% [3]

OP. TIME DEMO 99 HRS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD G

T/P 01

RADIATION AGING (R: GE 491HA988) [2]

DOSE RATE NONE REPORTED RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST 5.5×10^6 RADS

TOTAL DOSE 5.5×10^6 RADS

THERMAL AGING (R: EDS Calc No 0630-004-012)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104°F °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS.

PROVIDED LUBE OIL AND LEAD WIRE SEALS ARE CHECKED/CHANGED ANNUALLY

CYCLE AGING (R: GE NEDM-10672, A-2)

CYCLES REQUIRED 170

CYCLES PERFORMED 300
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3143 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE:

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. LEVEL SWITCH

MAKE MAGNETROL MODEL 3.5-751-1X-MPG-M14HY

VENDOR TEST REPORT NO. WYLE LAB, REPORT NO 43235-1, REVISION A

APPLICABLE STANDARDS

IEEE 323-1974

IEEE 344-1975

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3143-A

TEST METHOD SEQUENTIAL

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YRS BY ANALYSIS

TEST SEQUENCE (R: WYLE: 43235-1)

1. NUCLEAR RAD DAMAGE THRESHOLD TEST
2. REGRESSION ANALYSES
3. BASELINE FUNCTIONAL + HYDROST. PRESS. TEST
4. NUCLEAR RADIATION AGING
5. ELEVATED TEMP./HUMIDITY/CYCLE AGING
6. 75 Hz PLANT INDUCED VIBRATION TEST
7. SEISMIC QUALIFICATION
8. TYPE TEST PLAN
9.
10.

TEST ENVIRONMENT (R: WYLE: 43235-1, Pg 196)

TIME	160 HRS
TEMP. °F	300
PRES. PSIG	NONE GIVEN - ASSUME ATMOSPHERIC
R.H.	100 %

OP. TIME DEMO 160 HRS ACC/PERF DEMO NOT GIVEN

APPLICABLE ENV. ZONES

RAD G

T/P 1

RADIATION AGING (R: WYLE: 43235-1, Pg 7 AND TABLE 1)

DOSE RATE 1.2x10^5 TO 3.3x10^6 RAD/HR

DOSE PRIOR TO ENV. TEST: DEVICE: 4.4x10^4, COMPONENTS: ≥ 1x10^6 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE DEVICE: 4.4x10^4, COMPONENTS: ≥ 1x10^6 RADS

THERMAL AGING (R: WYLE: 43235-1, Pg 196)
EDS CALC NO 0630-001-027

AGED TO SIMULATED LIFE OF NOT GIVEN YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./DURATION 300°F / 1440 hrs

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS YRS.

CYCLE AGING (R: WYLE 43235-1, Pg 146)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 10,000
(Electro-Mechanical Equip. only)

REVIEWER: Wayne P. Furman DATE: 12/31/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3146 Revision 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. 21A9370 P.O. 205-G9C3 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. Conax Explosive Valve.

MAKE Conax MODEL P/N 1832-159-01

VENDOR TEST REPORT NO. CONAX REPORT NO TR-39

APPLICABLE STANDARDS

IEEE 323-1971

IEEE 344-1975

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3146-A

TEST METHOD Seperate

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE NOT DETERMINED

TEST SEQUENCE (R: Conax TR 39, Page 5-7)

1. Bridge wire Resistance
2. Circuit Resistance testing
3. Temp. / Humidity
4. Visual Inspection
5. Aging (Seismic Aging)
6. Irradiation
7. Seismic Test.
8.
9.
10.

TEST ENVIRONMENT (R: Conax TR 39, Pages 5-7)

TIME	100 days
TEMP. °F	185 to 190 °F
PRES. PSIG	Atmo
R.H.	100 %
OP. TIME DEMO	100 Hrs
ACC/PERF DEMO	N/A

APPLICABLE ENV. ZONES

RAD J

T/P 15

RADIATION AGING (R: Conax TR-39, Pg 6)

DOSE RATE 2.2×10^4 to 1.4×10^4 RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST 2.2×10^4 RADS

TOTAL DOSE 2.2×10^4 RADS

THERMAL AGING (R:)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF NONE °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO NONE YRS.

CYCLE AGING (R:)

CYCLES REQUIRED N/A

CYCLES PERFORMED N/A

(Electro-Mechanical Equip. only)

REVIEWER: Steve Paul DATE: 1/11/82

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3902 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH-003 P.O. 31040 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. ELECTRIC HEATER

MAKE GENERAL ELECTRIC MODEL 47D518673

VENDOR TEST REPORT NO. GE REPORT 8272-S42-4, REV. A

APPLICABLE STANDARDS

IEEE 323-1971

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3902-A

TEST METHOD SEPARATE

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YRS BY ANALYSIS

TEST SEQUENCE (R: GE: 8272-S42-4)

1. ENERGIZE HEATER (2 HOURS)
2. DEENERGIZE HEATER
3. ENERGIZE HEATER (100 DYS)
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: GE: 8272-S42-4, REV. A)

TIME 100 DYS

TEMP. °F NORMAL AMBIENT

PRES. PSIG NORMAL AMBIENT

R.H. NORMAL AMBIENT %

OP. TIME DEMO 100 DYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD G

T/P 7

RADIATION AGING (R: EQS CALC 0630-001-028)

DOSE RATE NONE RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 1×10^{12} BY ANALYSIS RADS

THERMAL AGING (R: EQS CAL 0630-001-028)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS YRS.

CYCLE AGING (R:)

CYCLES REQUIRED NOT REQUIRED

CYCLES PERFORMED NOT REQUIRED
(Electro-Mechanical Equip. only)

REVIEWER: [signature] DATE: 12/31/91

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3903 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. 541-003 P.O. 310010 VENDOR General Electric

TEST ITEM DESC. Blower

MAKE General Electric MODEL 2CH6-041-1U

VENDOR TEST REPORT NO. GE Report No B272-NL9-4, Rev A

APPLICABLE STANDARDS

IEEE 323-71

IEEE

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3903-A

TEST METHOD Separate

DOCUMENTATION ACCEPTABILITY Acceptable

QUALIFIED LIFE 6 yrs. by analysis

TEST SEQUENCE (R: GE: B272-NL9-4)

1. Continuous Functional
2. Test in Steam Environment
3.
4.
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: GE: B272-NL9-4)

TIME	100 Hrs
TEMP. °F	150
PRES. PSIG	Atmospheric
R.H.	97 %
OP. TIME DEMO	100 Hrs
ACC/PERF DEMO	N/A

APPLICABLE ENV. ZONES

RAD G

T/P 5,6 1

RADIATION AGING (R: EDS Calc 0630-001-026)

DOSE RATE None RAD/HR

DOSE PRIOR TO ENV. TEST None RADS

DOSE DURING ENV. TEST None RADS

TOTAL DOSE 1×10^7 By Analysis RADS

THERMAL AGING (R: EDS Calc 0630-001-026)

AGED TO SIMULATED LIFE OF None YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION None

REL. HUMIDITY None %

NOT AGED-JUSTIFIED BY ANALYSIS TO 6 YRS.

CYCLE AGING (R: GE B272-NL9-4)

CYCLES REQUIRED Undetermined

CYCLES PERFORMED 7
(Electro-Mechanical Equip. only)

REVIEWER: Steve Paul DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3904 Revision 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. SOLENOID VALVE

MAKE TARGET ROCK MODEL Y2 SMS-A-01

VENDOR TEST REPORT NO. TARGET ROCK REPORT NO. 2199A

APPLICABLE STANDARDS

IEEE 323-1974

IEEE 382-1972

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3904-A

TEST METHOD SEQUENTIAL

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 40 YRS BY ANALYSIS

TEST SEQUENCE (R: TARGET ROCK REPORT No 2199A)

1. FUNCTIONAL
2. RADIATION
3. FUNCTIONAL
4. TEMPERATURE/HUMIDITY & CYCLING
5. FUNCTIONAL
6. PRESSURE/TEMPERATURE
7. CYCLING/LEAKAGE
8. FUNCTIONAL
9. RADIATION
10. FUNCTIONAL
11. INSPECTION

TEST ENVIRONMENT (R: TARGET ROCK REPORT No 2199A)

TIME (MIN.)	0-1	2-20	20-181	181-299	300-301	301-480	482-650	650-5521
TEMP. °F	337	334-346	342	94-85	343	344-347	322	301-290
PRES. PSIG	65	50-48	48	0	65	51-46	46	25-26

R.H. 100 %

OP. TIME DEMO 92 Hrs ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD B

T/P 22

RADIATION AGING (R: TARGET ROCK 2199A)
(PRIOR TO ENV TEST)

DOSE RATE 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 1.9×10^7 RADS

DOSE DURING ENV. TEST 1.3×10^7 RADS

TOTAL DOSE 3.2×10^7 RADS

THERMAL AGING (R: EDS C.K No 0630-001-020)

AGED TO SIMULATED LIFE OF NONE YRS.

BASED ON AMBIENT TEMP OF 150 °F

AGING TEMP./ DURATION NONE

REL. HUMIDITY NONE %

NOT AGED-JUSTIFIED BY ANALYSIS TO 40 YRS YRS.

CYCLE AGING (R: TARGET ROCK 2199A)

CYCLES REQUIRED NOT DETERMINED

CYCLES PERFORMED 8000
(Electro-Mechanical Equip. only)

REVIEWER: Warren P Furman DATE: 12/31/81

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3906 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT I

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. TEMPERATURE ELEMENT

MAKE PYCO MODEL 102-3171

VENDOR TEST REPORT NO. PYCO QUALIFICATION TEST REPORT: DOCUMENT No. 770831

APPLICABLE STANDARDS

IEEE 323-1974

IEEE 344-1975

IEEE 382-1972 / 383-1974

NUREG 0588 CAT. II

TEST REPORT NO. 3110-A

TEST METHOD SEQUENTIAL

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 28.9 Yrs BY ANALYSIS

TEST SEQUENCE (R: PYCO DOCUMENT No. 770831)

1. THERMAL & RADIATION AGING
2. DEVELOPMENTAL
3. SEISMIC / VIBRATION
4. LOCA SIMULATION
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: PYCO DOCUMENT No 770831)

TIME	3 Hrs	2 Hrs	3 Hrs	3 Hrs	4 Hrs	81 Hrs	528
TEMP. °F	346	140	346	335	315	265	215
PRES. PSIG	113	—	113	95	69	28	—

R.H. 100 %

OP. TIME DEMO 720 Hrs/Test ACC/PERF DEMO NONE REPORTED WITH ANALYSIS : 21.7 years.

APPLICABLE ENV. ZONES

RAD G, H, K, P ST

T/P 01, 05, 13, 14, 15, 16, 18, 19, ST, 02

RADIATION AGING (R: PYCO # 770831)

DOSE RATE 5×10^5 RAD/HR

DOSE PRIOR TO ENV. TEST 2×10^8 RADS

DOSE DURING ENV. TEST NONE RADS

TOTAL DOSE 2×10^8 RADS

CYCLE AGING (R:)

CYCLES REQUIRED N/A

CYCLES PERFORMED N/A
(Electro-Mechanical Equip. only)

THERMAL AGING (R: PYCO # 770831)
EDS CALC. No 0630-001-017

AGED TO SIMULATED LIFE OF NOT GIVEN YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION 121°C / 7 DAYS

REL. HUMIDITY 85-95 %

NOT AGED-JUSTIFIED BY ANALYSIS TO 28.9 YRS.

REVIEWER: W. Gregory DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3909 Revision 1
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SH1-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. SOLENOID VALVE

MAKE ASCO MODEL NP8316E36E

VENDOR TEST REPORT NO. AUTOMATIC SWITCH CO. TEST REPORT NO. AQS21678/TR REV. A

APPLICABLE STANDARDS

IEEE 323-1974 / 382/ANSI N278.2.1

IEEE 382-1972

IEEE 344-1975

NUREG 0588 CAT. II

TEST REPORT NO. 3909-A

TEST METHOD SEQUENTIAL TESTS

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 22.93 YRS BY ANALYSIS

TEST SEQUENCE (R: ASCO REPORT NO AQS21678/TR)

1. THERMAL AGING
2. RADIATION
3. WEAR AGING
4. SEISMIC
5. VIBRATION
6. ACCIDENT RADIATION
7. 30-DAY LOCA SIMULATION
8.
9.
10.

TEST ENVIRONMENT (R: ASCO REPORT No. AQS21678/TR FIGURE 2)

TIME	4 HRS	1 Hr	3 Hr	3 Hr	85 Hr	26 DYS
TEMP. °F	346	140	346	320	250	200
PRES. PSIG	110	AMBIENT	110	75	15	10

R.H. 100 %

OP. TIME DEMO 30 DAYS ACC/PERF DEMO N/A

APPLICABLE ENV. ZONES

RAD G

T/P 25

RADIATION AGING (R: ASCO AQS21678/TR)

DOSE RATE < 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST 5×10^7 RADS

DOSE DURING ENV. TEST 1.5×10^8 RADS

TOTAL DOSE 2×10^8 RADS

THERMAL AGING (R: ASCO AQS21678/TR)

AGED TO SIMULATED LIFE OF 4 YRS. EDS CALC. NO 0630-001-021

BASED ON AMBIENT TEMP OF 150 °F

AGING TEMP./DURATION 268°F / 12 DYS

REL. HUMIDITY NOT GIVEN %

NOT AGED-JUSTIFIED BY ANALYSIS TO 22.93 YRS.

CYCLE AGING (R: AQS21678/TR)

CYCLES REQUIRED UNDETERMINED

CYCLES PERFORMED 40,000
(Electro-Mechanical Equip. only)

REVIEWER: Wayne P. Furman DATE: 5/13/82

R: Test Report Page No. Reference

ENVIRONMENTAL QUALIFICATION SUMMARY NO. 3915 Revision 0
SHOREHAM NUCLEAR POWER STATION-UNIT 1

SPEC. TITLE

SPEC. NO. SHI-003 P.O. 310010 VENDOR GENERAL ELECTRIC

TEST ITEM DESC. PRESSURE TRANSMITTER

MAKE ROSEMOUNT MODEL 1152

VENDOR TEST REPORT NO. ROSEMOUNT REPORT NO. 117415, REV. B

APPLICABLE STANDARDS

IEEE 323-1971

IEEE 344-1975

IEEE

NUREG 0588 CAT. II

TEST REPORT NO. 3915-A

TEST METHOD SEQUENTIAL

DOCUMENTATION ACCEPTABILITY ACCEPTABLE

QUALIFIED LIFE 1.4 YRS

TEST SEQUENCE (R: ROSEMOUNT 117415, Pg 3)

1. THERMAL AGING
2. RADIATION EXPOSURE
3. SEISMIC
4. STEAM-PRESSURE
5.
6.
7.
8.
9.
10.

TEST ENVIRONMENT (R: ROSEMOUNT 117415, Pg 9)

TIME	10 MIN	1 HR	7 HRS	42 HRS
TEMP. °F	350	316	303	230
PRES. PSIG	60	70	55.4	6

R.H. 100 %

OP. TIME DEMO 50 HRS ACC/PERF DEMO 2.0% FS

APPLICABLE ENV. ZONES

RAD G, H

T/P 12, 12

RADIATION AGING (R: ROSEMOUNT 117415, Pg 5)

DOSE RATE 1×10^6 RAD/HR

DOSE PRIOR TO ENV. TEST NONE RADS

DOSE DURING ENV. TEST 5×10^6 RADS

TOTAL DOSE 5×10^6 RADS

THERMAL AGING (R: WYLE: 17464-0902)

AGED TO SIMULATED LIFE OF 1.4 YRS.

BASED ON AMBIENT TEMP OF 104 °F

AGING TEMP./ DURATION 350°F/17HR; 316°F/1HR; 303°F/7HR; 230°F/39HR

REL. HUMIDITY 100 %

NOT AGED-JUSTIFIED BY ANALYSIS TO N/A YRS.

CYCLE AGING (R:)

CYCLES REQUIRED N/A

CYCLES PERFORMED N/A

(Electro-Mechanical Equip. only)

REVIEWER: W P Turnani DATE: 11/6/82

R: Test Report Page No. Reference

APPENDIX C

ENVIRONMENTAL ZONE MAPS

The drawings which follow define the areas of the plant determined to be in a potentially harsh environment. The drawings divide the plant into spatial zones. Radiation zones are identified with letters while pressure/temperature zones are identified with numbers. The radiation zones shown on Figures C-1 through C-15 are the same as Figures II.B.2-1 through 15 in the NUREG-0737 NRC submittal, and are included herein for convenience. Temperature and pressure zones are shown on Figures C-16 through C-22. These drawings are intended to show zone boundaries only and are not necessarily accurate regarding locations of specific equipment items which may appear on the drawings. ε

APPENDIX D

RADIATION, TEMPERATURE, AND PRESSURE DATA

The normal and accident service conditions are tabulated and graphed with respect to time as shown on the following sheets. The normal service conditions for secondary containment temperatures, pressures, and levels of humidity are listed in Table D-1 as taken from FSAR Table 3.11.2-1. The reactor building primary containment environmental service conditions and the secondary containment radiation conditions are tabulated on Figures D-1 and D-2, respectively. Radiation curves are shown on Figures D-3 through D-20. Temperature curves are shown on Figures D-21 through D-40. Pressure curves are shown on Figures D-41 and D-42. Curve D-43 indicates the pressure transient in the secondary containment due to a LOCA and is reproduced from an FSAR figure. 2 2

INDEX OF ENVIRONMENTAL TABLES AND FIGURES

TABLE D-1

NORMAL PRESSURE, TEMPERATURE,
AND HUMIDITY CONDITIONS
SHOREHAM NUCLEAR POWER STATION - UNIT 1
SECONDARY CONTAINMENT

2

	Area	Pressure	Temperature °F	Relative Humidity %
1.	All areas except steam tunnel and MCC cubicles*	-0.5 to 0 inches water gage, static pressure	60 to 104	50
2.	Main steam tunnel (Zone ST) (Turbine Blg. side)*	Same as above	120 to 135	50
3.	MCC rooms El. 112' (Zone N-21)	Atmospheric**	80 to 104**	90**

2

*The pressure, temperature and humidity conditions in these areas during LOCA are designed to be the same as normal since any additional heat gains are dissipated by the Reactor Building Standby Ventilation Unit Coolers.

**The pressure, temperature and humidity are maintained at these levels during accident conditions due to environmental protection of rooms and dedicated safety grade ventilation systems.

ZONE	PRIMARY	NORMAL			
		RADIATION	TEMPERATURE	HUMIDITY	PRESSURE
A-22	AREA ABOVE SHIELD WALL TO TOP OF DRYWELL	8.8×10^6 RAD γ 6.3×10^{13} NEUT/CM^2	150°F MAX 127°F AVG.	40-55% 100% FOR EXTENDED PERIODS	-3 TO 2 PSI
B-22	REGION ADJACENT TO CORE OUTSIDE OF SHIELD WALL	7.0×10^7 RAD γ 8.3×10^{14} NEUT/CM^2	150°F MAX		
C-22	UNDER RPV INSIDE OF SHIELD WALL AND REACTOR PEDESTAL	2.5×10^6 RAD γ 1.3×10^9 NEUT/CM^2			
D-22	VICINITY OF RECIRC. PUMP MOTORS	1.8×10^7 RAD γ 2.5×10^{12} NEUT/CM^2			
E-23	SUPPRESSION CHAMBER AIR SPACE	3.5×10^4 RAD γ 2.5×10^{11} NEUT/CM^2			
F-23	SUPPRESSION POOL	3.5×10^4 RAD γ 2.5×10^{11} NEUT/CM^2			

ZONE	NEUTRON FLUENCE	EQUIVALENT RADS γ	NEW TOTAL RADS γ
A	6.3×10^{13} NEUT/CM^2	4.0×10^5 RADS γ	1.1×10^8 RAD γ
B	8.3×10^{14} NEUT/CM^2	5.5×10^6 RADS γ	1.76×10^8 RAD γ
C	1.3×10^9 NEUT/CM^2	8.68×10^0 RADS γ	1.0×10^8 RAD γ
D	2.5×10^{12} NEUT/CM^2	1.67×10^4 RAD γ	1.2×10^8 RAD γ
E	2.5×10^{11} NEUT/CM^2	1.67×10^3 RAD γ	1.0×10^8 RAD γ
F	2.5×10^{11} NEUT/CM^2	1.67×10^3 RAD γ	1.0×10^8 RAD γ

NOTES:

1. "NORMAL RADIATION" IS CUMULATIVE 40-YR T
2. "ACCIDENT RADIATION" IS CUMULATIVE 6-MO
3. CONSIDER "NEW TOTAL RAD" COLUMN FOR γ RA
4. THE EFFECTS OF THE NEUTRON FLUENCE IS NE
5. THE ZONE E-23 AND F-23 LOCA TEMPERATU INCLUDE THE EFFECT OF STEAM BY-PASS ACCORDANCE WITH INFORMATION SUBMITTED VIA LILCO LETTER SNRC 577- DATED MAY

	ACCIDENT (LOCA)				TOTAL	
	RADIATION	TEMPERATURE	HUMIDITY	PRESSURE	RADIATION	
	1×10^8 RAD γ 1×10^9 RAD β	340°F – 0-3 HRS 320°F – 3-6 HRS 250°F – 6 HRS-1 DAY 200°F – 1-4 DAYS 150°F – 5-180 DAYS	100% (SUPERHEATED) (STEAM FOR FIRST DAY)	48 PSIG MAX-0 TO 6 HRS 15 PSIG MAX-6 HRS TO 4 DAYS 10 PSIG MAX-4 DAYS TO 180 DAYS	1.1×10^8 RAD γ 1×10^9 RAD β 6.3×10^{13} NEUT/CM^2	2
	1×10^8 RAD γ 1×10^9 RAD β				1.7×10^8 RAD γ 1×10^9 RAD β 8.3×10^{14} NEUT/CM^2	
					1×10^8 RAD γ 1×10^9 RAD β 1.3×10^9 NEUT/CM^2	
					1.2×10^8 RAD γ 1×10^9 RAD β 2.5×10^{12} NEUT/CM^2	
		250°F – 0-30 MIN. 225°F – 30 MIN-12 HRS 212°F – 12 HRS-1 DAY 170°F – 1 DAY-7 DAYS 120°F – 7 DAYS-25 DAYS 90°-25 DAYS-180 DAYS			1×10^8 RAD γ 1×10^9 RAD β 2.5×10^{11} NEUT/CM^2	2
					1×10^8 RAD γ 1×10^9 RAD β 2.5×10^{11} NEUT/CM^2	

DTAL
NTH TOTAL
DIATION
GLIGIBLE
RE VALUES
ANALYSIS IN
TO NRC
27, 1981.

2

FIG. D-1
REACTOR BUILDING PRIMARY CONTAINMENT ENVIRONMENTAL ZONES
SHOREHAM NUCLEAR POWER STATION-UNIT 1
ENVIRONMENTAL QUALIFICATION REPORT
FOR CLASS 1E ELECTRICAL EQUIPMENT

REVISION 2 - MAY 21, 1982

ZONES	G		H		J		K		L		M	
NORMAL RADIATION (RADS/Y) (40YR)	1.8×10^3		1.8×10^3		1.8×10^3		1.8×10^3		1.8×10^3		1.8×1	
ACCIDENT RADIATION (6 MO)	SUPPRESSION POOL WATER		REACTOR BLDG (AIRBORNE) LOCA / PBOC		HYDROGEN RECOMBINER		RBSVS FILTER		24 INCH RHR PIPE		8FT 4I PCA PIPE	
TIME (HR)	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	
0.0	1.96+5	0.00	0.00	0.00	1.40+4	0.00	0.00	0.00	1.43+5	0.00	1.87+4	0
0.1	1.60+5	1.77+4	2.32+1 7.40+3	1.24+0 8.21+2	1.05+4	1.22+3	3.14+1	1.24+0	1.18+5	1.30+4	1.33+4	1.5
0.5	1.42+5	7.81+4	8.80+1 5.63+3	2.41+1 3.35+3	8.04+3	4.90+3	2.60+2	5.19+1	1.05+5	5.76+4	9.54+3	6.
1.0	1.16+5	1.42+5	1.45+2 4.57+3	8.32+1 5.88+3	6.52+3	8.53+3	7.23+2	2.78+2	8.65+4	1.05+5	7.61+3	1.0
5.0	4.51+4	4.20+5	2.89+2 1.78+3	1.05+3 1.70+4	2.74+3	2.76+4	6.14+3	1.34+4	3.34+4	3.11+5	2.46+3	2.1
8.0	3.27+4	5.36+5	3.01+2 1.14+3	1.94+3 2.13+4	2.06+3	3.47+4	1.08+4	3.86+4	2.40+4	3.97+5	2.20+3	3.
24.0	1.36+4	8.74+5	2.76+2 2.65+2	6.55+3 3.03+4	1.06+3	5.81+4	3.36+4	3.90+5	9.60+3	6.41+5	1.07+3	5.
720.0	1.00+3	4.29+6	8.42+0 9.48-4	4.87+4 3.45+4	4.36+1	2.10+5	9.52+4	9.48+7	6.95+2	2.02+6	2.77+1	1.9
2160.0	3.34+2	5.18+6	4.48-2 5.42-6	5.08+4 3.45+4	7.14+0	2.34+5	1.40+3	1.27+8	2.43+2	2.64+6	1.30-1	2.
4380.0	1.60+2	5.75+6	9.19-3 1.89-9	5.08+4 3.45+4	3.37+0	2.45+5	7.91-1	1.27+8	1.17+2	3.06+6	9.24-2	2.
8760.0 (1 YEAR)	5.97+1	6.20+6	2.25-3 ≈ 0	5.08+4 3.45+4	1.58+0	2.45+5	2.25-3	1.27+8	4.35+1	3.38+6	7.25-2	20

BETA DOSE RATE AND INTEGRATED DOSE-ALL SECONDARY

TIME (HRS)	0.0	0.1	0.5	1.0	4.0	8.0	24.0	72.0	2160	4
DOSE RATE (RADS/HR)	0.0	1.01+2	3.18+02	5.31+2	1.22+3	1.68+3	2.26+3	8.10+1	1.07+1	5.7
INTEGRATED DOSE (RADS)	0.0	5.79+0	9.14+1	3.06+2	3.09+3	8.46+3	4.18+4	4.81+5	5.13+5	5.3

NOTE
FOR PBOC CASE, USE ZONE H VALUES FOR ENTIRE REACTOR SECONDARY CONTAINMENT

	N	P	Q	R	S	T
^{3}	1.8×10^{3}	1.1×10^{5}	1.3×10^{8}	2.1×10^{5}	1.8×10^{6}	4.9×10^{5}

NCH C	MCC CUBICLE		RWCU PUMP ROOM		RWCU FILTERS & TANKS		RWCU HEAT EXCHANGERS		FPC & CU ROOM		STEAM TUNNEL	
RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD	RAD/HR	RAD
.00	0.00	0.00	SAME AS ZONE H								SAME AS ZONE L	
68+3	2.32+1	1.24+0										
11+3	8.84+1	2.41+1										
04+4	1.46+2	8.36+1										
85+4	3.02+2	1.10+3										
55+4	3.24+2	2.02+3										
96+4	3.46+2	7.37+3										
99+5	2.00+2	2.39+5										
05+5	2.85+0	3.05+5										
06+5	1.08-2	3.06+5										
6+5	2.25-3	3.06+5										

CONTAINMENT ZONES

380	6570	8760	10950	13140	15330	17520
8+0	3.20+0	1.77+0	9.78-1	5.42-1	3.00-1	1.60-1
1+5	5.41+5	5.46+5	5.49+5	5.50+5	551+5	5.52+5

FIG. D-2
REACTOR BUILDING SECONDARY CONTAINMENT NORMAL AND ACCIDENT RADIATION ZONES
SHOREHAM NUCLEAR POWER STATION-UNIT I
ENVIRONMENTAL QUALIFICATION REPORT
FOR CLASS IE ELECTRICAL EQUIPMENT

APPENDIX E

ENVIRONMENTAL PROFILE CALCULATIONS

E.1 INTRODUCTION

This appendix describes the environmental profile calculations methodology, as indicated in Section 3 of the text.

E.2 SHORT TERM RESPONSE TO HIGH ENERGY LINE BREAKS (HELB)

In the HELB analysis, the following specific breaks are considered:

1. Six inch RWCU break in RWCU pump room, "B" pump, elevation 112 ft.

2. Four inch RWCU break in RWCU heat exchanger room, elevation 126 ft.

3. Ten inch HPCI steam line break, elevation 8 ft.

4. Three inch RCIC steam line and three inch Main Steam Drain (MSD) breaks in steam tunnel, elevation 76 ft.

Appendix 3C of the FSAR defines and justifies the Reactor Building main steam tunnel to be a break exclusion zone for certain high energy lines, including main steam lines. Therefore no further consideration of a mainstream line break in the Reactor Building is required. A main steam line break (MSLB) in the turbine building main steam tunnel is not relevant since there is no equipment located in this area required for MSLB mitigation. The reactor building environment is not significantly affected by a MSLB in this area due to the presence of a steel bulkhead separating the turbine building main steam tunnel from the reactor building. 2

Blowdown due to breaks is calculated by using the Moody critical flow model, from "Maximum Flow Rate of a Single Component, Two-Phase Mixture," by F.J. Moody, Transactions of the ASME, February 1965. This model states that the mass release rate is equal to the mass flux times the cross-sectional area of the break.

$$\dot{m} = GA_1, \quad \text{(eq-1)}$$

where $\dot{m}$ = mass release rate,

G = mass flux based on a pressure of 1055 psia, and

A_1 = cross-sectional area of the pipe.

A_1 is the area of the smallest restriction in the pipe upstream of the break. To include the volume of pipe between the smallest restriction and the break with the volume of piping downstream from the break in the blowdown determination requires the following equations (from GE Mark III Pressure Suppression Containment System Analytical Model, June 1974, Appendix B):

for liquid breaks

$$\dot{m} = 0.5\ GA_2 \quad \text{(eq-2A)}$$

for steam breaks:

$$\dot{m} = 0.75\ GA_2 \quad \text{(eq-2B)}$$

where A_2 = cross sectional area of the break pipe

These volumes are assumed to blowdown in this manner at a constant pressure until the mass initially contained in the pipe is depleted. The blowdown continues in accordance with eq-1 until blowdown isolation occurs.

The following assumptions are made concerning blowdown duration:

1. For the 6 inch RWCU, 4 inch RWCU, 10 inch HPCI, and 3 inch MSD breaks, the blowdown is isolated automatically on area high temperature.

2. For the 10 inch HPCI and 3 inch MSD breaks, the blowdown is assumed to end abruptly upon isolation valve closure due to the relatively small size of the isolation valves.

3. For the 6 inch RWCU and 4 inch RWCU breaks, the isolation valve is a large gate valve which causes the blowdown rate to ramp down as the valve closes.

4. Blowdown duration is determined as follows:

   a. The pipe break node reaches setpoint temperature of the automatic closure system followed by a 10 second "soak" time for the detector to respond, followed by the isolation valve closure time.

   b. Simultaneously with the pipe break, a loss of offsite power is assumed which requires an additional 10 second delay until power is restored via the diesel generator.

c. For some breaks the area high temperature setpoint is achieved almost instantaneously. In these cases, the time to reach the setpoint temperature and the detector "soak" time are assumed to occur during the 10 second duration of power loss. Therefore, isolation valve closure starts 10 seconds after the break occurs.

d. The 3 inch RCIC break does not have automatic isolation. Thus, blowdown duration includes all other time delays in addition to a ten minute operator response time to manually initiate blowdown isolation due to area high temperature alarm.

For pipe breaks which cause a plant trip and an assumed loss of power or for cases where normal ventilation is unavailable, the reactor building RBSVS would be initiated automatically and operate throughout the duration of the analysis. However, credit is taken for only one train of RBSVS (the other train is assumed to be a single failure).

Heat sinks are modeled in the short-term analyses but only concrete heat sinks were considered and no energy transfer out of the secondary containment is assumed through the heat sinks. Metal heat sinks are neglected for conservatism.

A 20 zone model of the Reactor Building secondary containment is used (see environmental zone maps in Appendix D).

This 20 zone model with blowdown data, ventilation data, and heat sink data are input into a computer code (called THREED) which calculates peak temperatures and pressures. This computer code was developed by S&W and used in previous Section 6.2 FSAR analyses.

E.3 SHORT TERM RESPONSE TO MODERATE ENERGY LINE CRACKS (MELB)

The blowdown rate is based on Bernoulli's theorem. The crack postulated consists of a sub-cooled liquid and is modeled as an orifice with an area of:

$$A = D/2 \times th/2$$

where A = area of crack,

D = Diameter of cracked pipe, and
th = wall thickness of the cracked pipe.

The blowdown is assumed to be frictionless and an orifice discharge coefficient of 1.0 is used. The following equation represents the mass blowdown rate in lbm/sec:

$$\dot{m} = 0.525 d^2 \sqrt{C \Delta P \delta} \quad \text{(eq-3)}$$

where $\dot{m}$ = mass release rate,

d = effective diameter of the crack,

C = orifice discharge coefficient,

ΔP = difference in pressure between RHR system pressure and atmospheric pressure, and

δ = density of the system water.

d is determined from the following:

$$d = 2\sqrt{A/\pi}$$

The energy release rate Q is determined by multiplying the mass release rate m by the enthalphy h of the fluid.

$$\dot{Q} = \dot{m}\, h$$

The RHR crack is assumed to be isolated in 11 minutes after the crack occurs. The 11 minutes includes time for water to accumulate at the 8 ft elevation for a high water alarm followed by the time required for an operator to initiate isolation and time for the isolation valves to close.

The model of the Reactor Building secondary containment used for an RHR crack is a 24 zone model, similar to the 20 zone model mentioned earlier except that El. 8 ft is subdivided into two zones and El. 40 ft is subdivided into four zones.

Heat sinks are modeled in 20 of the 24 zones. Heat sinks for the smallest zones are neglected.

No part of the ventilation system is considered in the RHR crack short-term analysis.

The 24 zone model data, blowdown data, and heat sink data are input into a computer code (called THREED VER12 LEV01) which calculates peak temperatures and pressures.

E.4 RADIATION CALCULATIONS

A. Source Term

Radioactive Source Release and Distribution assumptions are as follows:

1. Radioactive Source Release

The percents of core inventory radioactive fission products assumed to be released from the fuel rods for LOCA events are:

noble gases (Kr, Xe)	100%
iodine	50%
others	1%

This entire release is assumed to occur instantaneously at the start of the accident.

2. Radioactive Source Distribution

In order to envelope the full spectrum of break sizes and depressurization rates, two bounding events and source distributions are considered.

The first event considered is a LOCA (both pressurized and depressurized events).

In this event, the following fission products are considered to be uniformly mixed in the following volumes:

a. Suppression Pool

noble gases	0%
iodine	50%
others	1%

b. Combined Drywell/Wetwell Air Space

noble gases	100%
iodine	25%
others	0%

c. Reactor Coolant System Steam Space

The following distribution is used for determining reactor building pipe shine doses due to HPCI, RCIC and MSIV-LCS operation

noble gases	100%
iodine	25%
others	0%

Using the above distribution, time history radiation zones are established within the primary containment and within the secondary containment as follows:

1. Primary Containment - Previously described accident radiation levels (FSAR Table 3.11.2-1) adequately bound all LOCA events for equipment within the primary containment and no new analyses are required.

2. Secondary Containment - Time history radiation zones are established for the secondary containment using the above sources distributed in the steam and liquid piping in the following fluid systems which are conservatively assumed to operate concurrently:

   a. High Pressure Coolant Injection (HPCI)

   b. Reactor Core Isolation Cooling (RCIC)

   c. Residual Heat Removal (RHR - all essential modes)

   d. Core Spray

   e. Reactor Building Standby Ventilation System (RBSVS)

   f. Main Steam Isolation Valve - Leakage Control (MSIV-LCS)

   g. Primary Containment Atmospheric Control (PCAC)

   In addition to the radiation shine from the above system piping and components, the primary containment is assumed to leak at technical specification limits resulting in an airborne source term which is included in the radiation zoning. As provided by NUREG 0737, no additional leakage is assumed.

3. Excluded Systems

   a. All piping which could potentially carry undiluted reactor coolant into the secondary containment is isolated and is nonessential (e.g., RWCU, shutdown cooling mode of RHR). Accordingly, the undiluted reactor coolant liquid source

discussed above is excluded. Adequate means are provided (Post Accident Sampling System) to insure safe radiation levels exist prior to use of any of these nonessential systems.

b. The post accident sampling lines are excluded from specific evaluation due to their size (typically 3/8 in. tubing) and because they are flushed after each use. Sufficient conservatism in integrated dose calculations exists to bound any effects of these small sources.

c. The gaseous radwaste system lines are also excluded because they do not act as sources for any safety-related equipment. They are also located outside the reactor building and are isolated.

4. Outside Reactor Building - the calculated dose rates and integrated dose values for components located in buildings other than the Reactor Building are derived from the following sources:

a. Direct shine from radioactivity within the Reactor Building which is both airborne and contained in specific components.

b. Airborne activity in the respective building due to ventilation intake.

c. Semi-infinite radioactive cloud which surrounds the respective building.

d. Skyshine from radiation originating in the Reactor Building and air-scattered to a receptor.

e. Direct shine from airborne activity in drywell. |2

The pipe break inside primary containment and nonpipe break events are bounded by the LOCA event above.

The other event considered is a high energy pipe break in secondary containment. This event provides the bounding values in some zones within the secondary containment in the short term (i.e., less than 30 days). However, the LOCA doses provide the bounding values for doses for times longer than 30 days. |2 |2

2 As specified in NUREG 0737, the airborne radioactivity levels in the secondary containment from the high energy line break result from the release of reactor coolant containing 10 percent of the noble gas core inventory and 10 percent of the iodine core inventory. The dose and dose rates are calculated as a function of time following the event.

APPENDIX F

ENVIRONMENTAL QUALIFICATION STATUS REPORT

The following is a sample of an entry into the Environmental Qualification Status Report (EQSR):

```
                 REPORT NO. PES-801 JOB 1160002  05/20/82                  ENVIRONMENTAL QUALIFICATION STATUS REPORT

REPORT  NO.  PES-801                 STONE  AND  WEBSTER ENGINEERING  CORPORATION
JOB NUMBER  1160002                     PROJECT  EQUIPMENT  SYSTEM - (IS-129)               REPORT DATE  05/20/82  PAGE   124
JOB NAME    SHOREHAM - UNIT 1         ENVIRONMENTAL QUALIFICATION STATUS REPORT              RESET NO.    004
JOB CLIENT  LILCO                         SORTED BY - SPEC  /      /                        RESET DATE   05/12/82

EQUIPMENT ID      EQUIPMENT DESCRIPTION                                           EMG COND    OPER CODE          2
VENDOR ID         VENDOR NAME                QAC    ZONE          EQ SHEET
                  MAKE / MANUFACTURER        NU-CAT BLDG   ELEV   QUAL STAT
                  MODEL / CATALOG NO         SPEC   PO NUMBER                        SUBMG
****************  ***************************** ************ ********** ********* ********** ****** ********** **************
                HARK NO. REPRESENTS 6 SWITCHES

.1T46*PNS039B     PRI CONTAINMENT PURGE VALVE  .                                     *H,M        .*B
                  FISHER CONTROLS        1E   . K-15         .          .                      .*180 DYS
                  NAMCO                       . RBS    00112. RR        .                      .
                  EA740-20001            172  . 310574       .          .                      .

                                              .                                     *L          .*A
                                              .              .          .                      .*070 MIN
                                              .              .          .                      .
                                              .              .          .                      .
```

Definitions of the entry headings are given below. An alphabetized list of equipment type abbreviations is provided in Appendix H.

Data definitions for entry headings are as follows:

EQUIPMENT ID
<u>VENDOR ID</u>

The first line identifies the Stone & Webster unique identification or mark number for each equipment. The first four characters represent the system number followed by an asterisk, "*", to indicate the equipment is safety-related or a dash "-", to indicate the equipment was not originally safety-related but is now identified by NRC Regulatory Guide 1.97 or other requirements. The key to the system code is described in Section 2.

The succeeding characters indicate the equipment type using the equipment identification symbol as documented in the Shoreham Project Procedures. The key to the equipment type symbol is provided in Appendix H. Additional characters provide a unique alpha-numeric identification for identical or redundant equipment. The second line indicates the General Electric identification code (the Master Parts List number) if the item is in the NSSS design.

EQUIPMENT DESCRIPTION
2 VENDOR NAME
MAKE/MANUFACTURER
MODEL/CATALOG NO.

The top line provides an abbreviated functional or application description of the equipment identified. IT DOES NOT GENERALLY INDICATE THE EQUIPMENT TYPE. The second line is the equipment supplier. The third line identifies the equipment manufacturer. The fourth line provides the manufacturer's model or catalog
2 number, or any other identifying number for the equipment.

QAC
NU-CAT
SPEC

The upper line is the Quality Assurance Category of the equipment, which is Class "1E" or "2E". The second line
2 indicates "RG" if the equipment is required to be qualified in accordance with Nuclear Regulatory Guide 1.97. The third line is the specification number under which the equipment is procured; the specifications are identified by the specification numbers listed in Section 2.

ZONE
BLDG ELEV

2 The first line provides an alpha-numeric code for the environmental zone in which the equipment is located in a format of "letter - two digit number." The radiation zone is designated by the first (letter) character. The two digits after "-" designate the temperature/pressure zone. Radiation zones and
2 temperature/pressure zones do not necessarily coincide. The second line provides building and elevation (feet above sea level) to describe equipment location. The key to the building abbreviations is as follows:

Building Code	Building Name
RBD	Reactor Building Drywell
RBS	Reactor Building Secondary
RBP	Reactor Building Primary
YD	Yard
ST	Steam Tunnel

2 EQ SHEET
QUAL STAT

The first line identifies the Environmental Qualification Summary Sheet (EQSS). Each EQSS for BOP equipment is identified by the specification number, summary sheet number, and revision level if not the original issue. For NSSS equipment, each EQSS is

identified with a four digit number. The first digit is "3" representing Specification SH1-003 with the equipment group designated by the succeeding digits. The second line lists the qualification status of equipment in an abbreviated form as follows:

EQ - Equipment is qualified

QG - Equipment is qualified except for aging

FT - Documentation has been reviewed, further test/analysis recommended

MR - Modification of equipment is recommended for qualification

RR - Replacement is recommended, test report for qualified replacement will be evaluated

DR - Documentation is in review

TA - Testing/analysis program has been initiated

IJ - Qualification documentation not expected to be completed prior to fuel load, refer to Appendix G of this report for justification of interim operation.

EMG COND
SUBMG

The first line indicates for which design basis event(s) the equipment must be qualified, with abbreviations as follows:

L - Loss of Coolant Accident (LOCA)
H - High Energy Line Break (HELB)
M - Moderate Energy Line Crack (MELB)
ALL - LOCA, HELB, MELB

The second line indicates whether the equipment is exposed to containment spray or mist conditions. The following abbreviations are used:

SPR - Containment spray
MST - Mist Conditions

OP CODE
OP TIME
ACC/PERF

The first line indicates operability code with letter A or B referring to the equipment categories defined in Section 4. Equipment designated as operability code A with operability time

less than 180 days revert to operability code B for the remainder of the 180 days unless otherwise noted. The second line indicates the time required, including the margins applied, for the equipment to be operable or unfailed during and subsequent to a design basis event. The time is indicated by a number followed by one of the following abbreviations to record the units of time:

CON - Continuous
YRS - Years
MON - Months
DYS - Days
HRS - Hours
MIN - Minutes

The third line indicates the accuracy specification of instruments for trip functions and post accident monitoring. Where not applicable to the specific equipment, "N/A" is entered.

REPORT NO. PES-801

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)

JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

REPORT DATE 05/21/82 PAGE 1
RESET NO. 004
RESET DATE 05/12/82

LEGEND ***

CHANGES TO THE DATA ITEMS ON THIS REPORT WILL BE INDICATED BY STATUS CODES.
A. DATA ITEMS PRECEDED BY AN ASTERISK HAVE BEEN CHANGED SINCE THE LAST CALENDAR QUARTER.
B. AN ASTERISK BEFORE THE EQUIPMENT ID INDICATES ADDITION OR DELETION FOR THAT EQUIPMENT ID. THE WORD ADDED OR DELETED WILL APPEAR UNDER THE EQUIPMENT ID.
C. A PERIOD BEFORE THE EQUIPMENT ID INDICATES DATA ITEMS HAVE CHANGED SINCE THE LAST CALENDAR QUARTER.
D. RESETTING OF THE STATUS CODES TO EQUAL BLANKS WILL BE DONE ON A CALENDAR QUARTER AND THE RESET NUMBER AND RESET DATE WILL BE RECORDED.

ITEM SELECTION CRITERIA *** (DATA FIELDS MUST MATCH ON ALL SELECTED KEYWORDS FO R EQUIPMENT ITEM TO BE SELECTED.)

KEYWORD:	DESCRIPTION:	SELECT VALUES:
QAC	Q A CATEGORY	1 2 1E 2E
BLDG	BUILDING	ALL
CAQ	NU-REG QUAL CATEGORY	ALL
EHG	ACCIDENT CONDITION	ALL
OPC	OPERABILITY CODE	A B
EQD	ENVIRON QUALIF STATUS	ALL
EC	ELECTRICAL CONNECTION	ALL

QUALIFICATION INDICATOR SELECTION CRITERIA ***
(INDICATOR FIELDS NEED MATCH FOR ONLY ONE SELECTED KEYWORD FOR EQUIPMENT ITEM TO BE SELECTED.)

KEYWORD:	DESCRIPTION:	SELECT VALUES:
EQIND	ENVIRON QUAL INDICATOR	ALL
SQIND	SEISMIC QUAL INDICATOR	ALL
HTIND	HYDRODYNAMIC TEST IND	ALL

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

REPORT DATE 05/21/82 PAGE 2
RESET NO. 004
RESET DATE 05/12/82

REPORT GROUP MAK =

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
.1T46*PNS048A	FLT 1A	*1E	RBS		*H,M	.*A .*180 DYS
					*L	.*A .*070 MIN
.1T46*PNS048B	FLT 1B	*1E	RBS		*H,M	.*A .*180 DYS
					*L	.*A .*180 DYS
.1C51*EV801A	1C51*TIP-004A SHEAR VLV *GENERAL ELECT	*1E *003	.*H-12 .*RBS *00073. .*310010		H,M	. B . 180 DYS
					L	. A . 070 MIN
.1C51*EV801B	1C51*TIP-004B SHEAR VLV *GENERAL ELECT	*1E *003	.*H-12 .*RBS *00073. .*310010		H,M	. B . 180 DYS
					L	. A . 070 MIN

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

REPORT DATE 05/21/82 PAGE 3
RESET NO. 004
RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBNG	OPER CODE
.1C51*EV801C	1C51*TIP-004C SHEAR VLV		.		H,M	. B
	*GENERAL ELECT	*1E	.*H-12 .	.		. 180 DYS
			.*RBS *00073.	.		.
		*003	.*310010 .	.		.
			.		L	. A
			. .	.		. 070 MIN
			. .	.		.
			. .	.		.
.1C51*EV801D	1C51*TIP-004D SHEAR VLV		.		H,M	. B
	*GENERAL ELECT	*1E	.*H-12 .	.		. 180 DYS
			.*RBS *00073.	.		.
		*003	.*310010 .	.		.
			.		L	. A
			. .	.		. 070 MIN
			. .	.		.
			. .	.		.
.1E51*HOV051	TURBINE CONTROL VALVE		.		*H,M	.*B
		1E	. G-01 .	.		.*180 DYS
			. RBS 00008.	.		.
		003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1T46*TE006	UNIT COOLER 1T46*UC-023 INLET		.		*L	.*A
	CONAX	*1E	.*L-02 .*406A-01	.		.*180 DYS
			. RBS *00040.*DR	.		.
		406A	. 10114 .	.		.
.1P41*FS151A	RHR SERV WTR-RAD MON SAMPLE		.		*H,M	.*B
	BAILEY	1E	.*G-01 .	.		.*180 DYS
			. .*FT/IJ	.		.
		421	. 310395 .	.		.
.1P41*FS151B	RHR SERV WTR-RAD MON SAMPLE		.		*H,M	.*B
	BAILEY	1E	.*G-01 .	.		.*180 DYS
			. .*FT/IJ	.		.
		421	. 310395 .	.		.

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JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	OAC / MU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
REPORT GROUP MAK	= AIR MONITOR CORP					
.1D11*FT066	RB EXH TO 1D11*PNL066		.		H,M	. A
	POWERS REG	1E	. 2	.*319-01 .		. 180 DYS
	AIR MONITOR CORP	*	. RBS	00151.*FT/IJ .		.
	*VELTRON 3ACGHS	319	. 310738	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1D11*FT069	STA VENT EXH TO 1D11*PNL-069		.		H,M	. A
	POWERS REG	1E	. NONE	.*319-01 .		. 180 DYS
	AIR MONITOR CORP	*	.*RBS	00164.*FT/IJ .		.
	*VELTRON 3ACGHS	319	. 310738	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.

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REPORT GROUP MAK = AIR MONITOR CORP.

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.1T46*FT004A	RBSVS EXH AIR FLOW		.			*H,M	.*A
	*COPES VULCAN	1E	. H-18		.*319-01 .		.*180 DYS
	AIR MONITOR CORP.	RG	. RBS	00150.	*FT/IJ .		.
	VELTRON 800	319	. 310738		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*FT004B	RBSVS EXH AIR FLOW		.			*H,M	.*A
	*COPES VULCAN	1E	. H-18		.*319-01 .		.*180 DYS
	AIR MONITOR CORP.	RG	. RBS	00150.	*FT/IJ .		.
	VELTRON 800	319	. 310738		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.

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STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK = AMERICAN INST. CO.

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
.1T46*MIT002A	FLT 1A MOISTER		.			*H,M	.*B
	POWERS REGUL	1E	. K-15		.*319-01 .		.*180 DYS
	AMERICAN INST. CO.	1E	. RBS	00112.	*FT/IJ .		.
	L15-6371B	319	. 310738		. .		.
			.			*L	.*B
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*MIT002B	FLT 1B MOISTER		.			*H,M	.*B
	POWERS REGUL	1E	. K-15		.*319-01 .		.*180 DYS
	AMERICAN INST. CO.	1E	. RBS	00112.	*FT/IJ .		.
	L15-6371B	319	. 310738		. .		.
			.			*L	.*B
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*ME002A	FLT-1A MOISTURE		.			*H,M	.*B
	POWERS REGUL	1E	. K-15		.*319-01 .		.*180 DYS
	AMERICAN INST. CO.	1E	. RBS	00112.	*FT/IJ .		.
	15-1818D(MOD)	319	. 310738		. .		.
			.			*L	.*B
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*ME002B	FLT-1B MOISTURE		.			*H,M	.*B
	POWERS REGUL	1E	. K-15		.*319-01 .		.*180 DYS
	AMERICAN INST. CO.	1E	. RBS	00112.	*FT/IJ .		.
	15-1818D(MOD)	319	. 310738		. .		.
			.			*L	.*B
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
REPORT GROUP MAK = AMETEK						
.1E32*FT037B	MSIV B LEAK TO LPM				H,M	B
E32-N053F	GENERAL ELEC	1E	G-05	3128		180 DYS
	*AMETEK		RBS 00063.	DR/IJ		
	*078-50041-001-10	003	310010			
					L	A
						100 DYS
	OP CODE B FOR HELB & MELB					
.1E32*FT037C	MSIV C LEAK TO LPM				H,M	B
E32-N053K	GENERAL ELEC	1E	G-05	3128		180 DYS
	*AMETEK		RBS 00063.	DR/IJ		
	*078-50041-001-3	003	310010			
					L	A
						100 DYS
.1E32*FT037A	MSIV A LEAK TO LPM				H,M	B
E32-N053B	GENERAL ELEC	1E	G-05	3128		180 DYS
	*AMETEK		RBS 00063.	DR/IJ		
	*078-50041-001-6	003	310010			
					L	A
						100 DYS
	OP CODE B FOR HELB & MELB					
.1E32*FT037D	MSIV D LEAK TO LPM				H,M	B
E32-N053P	GENERAL ELEC	1E	G-05	3128		180 DYS
	*AMETEK		RBS 00063.	DR/IJ		
	*078-50041-001-7	003	310010			
					L	A
						100 DYS

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STONE AND WEBSTER ENGINEERING CORPORATION
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.1E32*FE037A	MSIV A LEAK TO LPM		.		L	. A
E32-N006B	GENERAL ELEC	1E	. G-06	. 3128		. 100 DYS
	*ANETEK		. RBS	00065. DR/IJ		.
	*1.03K-16HZ-177	003	. 310010	.		.
	OP CODE B FOR HELB & MELB					
.1E32*FE037B	MSIV B LEAK TO LPM		.		L	. A
E32-N006F	GENERAL ELEC	1E	. G-06	. 3128		. 100 DYS
	*ANETEK		. RBS	00065. DR/IJ		.
	*1.03K-16HZ-177	003	. 310010	.		.
	OP CODE B FOR HELB & MELB					
.1E32*FE037C	MSIV C LEAK TO LPM		.		L	. A
E32-N006K	GENERAL ELEC	1E	. G-06	. 3128		. 100 DYS
	*ANETEK		. RBS	00065. DR/IJ		.
	*1.03K-16HZ-177	003	. 310010	.		.
	OP CODE B FOR HELB & MELB					

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REPORT GROUP MAK = API							
.1T48*H2I115AX AI-3	DRYWELL H2 ANALYZER INDICATION. *DELPHI INDUST *API *7045-N5-4702-0000	1E 344	J-16 RBS 310737	00112.	*EQ	H,M L	.*B .*180 DYS . A . 180 DYS
.1T48*H2I115BX AI	DRYWELL H2 ANALYZER INDICATION. *DELPHI INDUST *API *7045-N5-4702-0000	1E 344	J-16 RBS 310737	00112.	*EQ	H,M L	.*B .*180 DYS . A . 180 DYS
.1T48*H2I116AX AI	SUPP CHBR/RECOM DISCH IND *DELPHI INDUST *API *7045-N5-4702-0000	1E 344	J-16 RBS 310737	00112.	*EQ	H,M L	.*B .*180 DYS . A . 180 DYS
.1T48*H2I116BX AI	SUPP CHBR/RECOM DISCH IND *DELPHI INDUST *API *7045-N5-4702-0000	1E 344	J-16 RBS 310737	00112.	*EQ	H,M L	.*B .*180 DYS . A . 180 DYS

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REPORT GROUP MAK = ASCO

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.1B31*PS023C B31-N018C	RECIRC SUC PR RHR VLV INTLK *AUTO SWITCH *ASCO	1E 348	. .*G-02 . RBS . 10072	.*348-01 00040.*TA/IJ .	L	. A . 007 DYS
.1B21*SOV81AX B21-F022A	1B21*AOV081A CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	. . D-22 . RBP . 310010	. 3096 00082. IJ .	*H,M *L	.*A .*070 MIN
.1B21*SOV81AY B21-F022A	1B21*AOV081A CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	. . D-22 . RBP . 310010	. 3096 00082. IJ .	*H,M *L	.*A .*070 MIN
.1B21*SOV81AZ B21-F022A	1B21*AOV081A CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	. . D-22 . RBP . 310010	. 3096 00082. IJ .	*H,M *L	.*A .*070 MIN
.1B21*SOV81BX B21-F022B	1B21*AOV081B CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	. . D-22 . RBP . 310010	. 3096 00082. IJ .	*H,M	.*A .*070 MIN

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JOB CLIENT LILCO SORTED BY - NAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
		.	.		.	*L	.*A
		.	.		.		.*070 MIN
		.	.		.		.
		.	.		.		.
.1B21*SOV81BY	1B21*AOV081B CONTROL	.	.		.	*H,M	.*A
B21-F022B	GENERAL ELECT	1E	. D-22		. 3096	.	.*070 MIN
	ASCO		. RBP	00082.	IJ	.	.
	HT-X-8320A20	003	. 310010		.	.	.
		.	.		.	*L	.*A
		.	.		.		.*070 MIN
		.	.		.		.
		.	.		.		.
.1B21*SOV81BZ	1B21*AOV081B CONTROL	.	.		.	*H,M	.*A
B21-F022B	GENERAL ELECT	1E	. D-22		. 3096	.	.*070 MIN
	ASCO		. RBP	00082.	IJ	.	.
	HT-X-8320A20	003	. 310010		.	.	.
		.	.		.	*L	.*A
		.	.		.		.*070 MIN
		.	.		.		.
		.	.		.		.
.1B21*SOV81CX	1B21*AOV081C CONTROL	.	.		.	*H,M	.*A
B21-F022C	GENERAL ELECT	1E	. D-22		. 3096	.	.*070 MIN
	ASCO		. RBP	00082.	IJ	.	.
	HT-X-8320A20	003	. 310010		.	.	.
		.	.		.	*L	.*A
		.	.		.		.*070 MIN
		.	.		.		.
		.	.		.		.
.1B21*SOV81CY	1B21*AOV081C CONTROL	.	.		.	*H,M	.*A
B21-F022C	GENERAL ELECT	1E	. D-22		. 3096	.	.*070 MIN
	ASCO		. RBP	00082.	IJ	.	.
	HT-X-8320A20	003	. 310010		.	.	.
		.	.		.	*L	.*A
		.	.		.		.*070 MIN
		.	.		.		.
		.	.		.		.

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JOB CLIENT LILCO

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.1B21*SOV81CZ	1B21*AOV081C CONTROL					*H,M	.*A
B21-F022C	GENERAL ELECT	1E	D-22		3096		.*070 MIN
	ASCO		RBP	00082.	IJ		
	HT-X-8320A20	003	310010				
						*L	.*A
							.*070 MIN
.1B21*SOV81DX	1B21*AOV081D CONTROL					*H,M	.*A
B21-F022D	GENERAL ELECT	1E	D-22		3096		.*070 MIN
	ASCO		RBP	00082.	IJ		
	HT-X-8320A20	003	310010				
						*L	.*A
							.*070 MIN
.1B21*SOV81DY	1B21*AOV081D CONTROL					*H,M	.*A
B21-F022D	GENERAL ELECT	1E	D-22		3096		.*070 MIN
	ASCO		RBP	00082.	IJ		
	HT-X-8320A20	003	310010				
						*L	.*A
							.*070 MIN
.1B21*SOV81DZ	1B21*AOV081D CONTROL					*H,M	.*A
B21-F022D	GENERAL ELECT	1E	D-22		3096		.*070 MIN
	ASCO		RBP	00082.	IJ		
	HT-X-8320A20	003	310010				
						*L	.*A
							.*070 MIN
.1B21*SOV82AX	1B21*AOV082A CONTROL					*H,M	.*A
B21-F028A	GENERAL ELECT	1E	T-08		3096		.*070 MIN
	ASCO		ST	00082.	IJ		
	HT-X-8320A20	003	310010				

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						*L	.*A .*070 MIN
.1B21*SOV82AY B21-F028A	1B21*AOV082A CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	T-08 ST 310010	00082.	3096 IJ	*H,M	.*A .*070 MIN
						*L	.*A .*070 MIN
.1B21*SOV82AZ B21-F028A	1B21*AOV082A CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	T-08 ST 310010	00082.	3096 IJ	*H,M	.*A .*070 MIN
						*L	.*A .*070 MIN
.1B21*SOV82BX B21-F028B	1B21*AOV082B CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	T-08 ST 310010	00082.	3096 IJ	*H,M	.*A .*070 MIN
						*L	.*A .*070 MIN
.1B21*SOV82BY B21-F028B	1B21*AOV082B CONTROL GENERAL ELECT ASCO HT-X-8320A20	1E 003	T-08 ST 310010	00082.	3096 IJ	*H,M	.*A .*070 MIN
						*L	.*A .*070 MIN

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1B21*SOV82BZ	1B21*AOV082B CONTROL		.			*H,M	.*A
B21-F026B	GENERAL ELECT	1E	. T-08		. 3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010		. .		.
			.			*L	.*A
			.		. .		.*070 MIN
			.		. .		.
			.		. .		.
.1B21*SOV82CX	1B21*AOV082C CONTROL		.			*H,M	.*A
B21-F026C	GENERAL ELECT	1E	. T-08		. 3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010		. .		.
			.			*L	.*A
			.		. .		.*070 MIN
			.		. .		.
			.		. .		.
.1B21*SOV82CY	1B21*AOV082C CONTROL		.			*H,M	.*A
B21-F026C	GENERAL ELECT	1E	. T-08		. 3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010		. .		.
			.			*L	.*A
			.		. .		.*070 MIN
			.		. .		.
			.		. .		.
.1B21*SOV82CZ	1B21*AOV082C CONTROL		.			*H,M	.*A
B21-F026C	GENERAL ELECT	1E	. T-08		. 3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010		. .		.
			.			*L	.*A
			.		. .		.*070 MIN
			.		. .		.
			.		. .		.
.1B21*SOV82DX	1B21*AOV082D CONTROL		.			*H,M	.*A
B21-F026D	GENERAL ELECT	1E	. T-08		. 3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010		. .		.

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			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1B21*SOV82DY	1B21*AOV082D CONTROL		.			*H,M	.*A
B21-F028D	GENERAL ELECT	1E	. T-08	.	3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1B21*SOV82DZ	1B21*AOV082D CONTROL		.			*H,M	.*A
B21-F028D	GENERAL ELECT	1E	. T-08	.	3096 .		.*070 MIN
	ASCO		. ST	00082.	IJ .		.
	HT-X-8320A20	003	. 310010	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV035A	OPERATES 1T46*AOV035A		.			*H,M	.*A
	FISHER CONT.	1E	. G-01	.	.		.*070 MIN
	ASCO		. RBS	00112.	*RR .		.
	HV200-926-1F-EP	111	. 310655	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV035B	OPERATES 1T46*AOV035B		.			*H,M	.*A
	FISHER CONT.	1E	. G-01	.	.		.*070 MIN
	ASCO		. RBS	00112.	*RR .		.
	HV200-926-1F-EP	111	. 310655	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
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.1T46*SOV037A	OPERATES 1T46*AOV037A		.			*H,M	.*A
	FISHER CONT.	1E	. H-12	.	.		.*070 MIN
	ASCO		. RBS	00095.*RR	.		.
	HV200-926-1F-EP	111	. 310655	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV037B	OPERATES 1T46*AOV037B		.			*H,M	.*A
	FISHER CONT.	1E	. H-12	.	.		.*070 MIN
	ASCO		. RBS	00095.*RR	.		.
	HV200-926-1F-EP	111	. 310655	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV038A	OPERATES 1T46*AOV038A		.			*H,M	.*B
	FISHER CONT.	1E	. D-22	.	.		.*180 DYS
	ASCO		. RBP	00078.*RR	.		.
	HV200-926-1F-EP	172	. 373023	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV038B	OPERATES 1T46*AOV038B		.			*H,M	.*B
	FISHER CONT.	1E	. H-10	.	.		.*180 DYS
	ASCO		. RBS	00078.*RR	.		.
	HV200-926-1F-EP	172	. 373023	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
.1T46*SOV038C	OPERATES 1T46*AOV038C		.			*H,M	.*B
	FISHER CONT.	1E	. L-02	.	.		.*180 DYS
	ASCO		. RBS	00040.*RR	.		.
	HV200-926-1F-EP	172	. 310574	.	.		.

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			*L	.*A
			. .	.			.*070 MIN
			. .	.			.
			. .	.			.
.1T46*SOV036D	OPERATES 1T46*AOV036D		.			*H,M	.*B
	FISHER CONT.	1E	. L-02	.			.*180 DYS
	ASCO		. RBS	00040.*RR			.
	HV200-926-1F-EP	172	. 310574	.			.
			.			*L	.*A
			. .	.			.*070 MIN
			. .	.			.
			. .	.			.
.1T46*SOV039A	OPERATES 1T46*AOV039A		.			*H,M	.*B
	FISHER CONT.	1E	. B-22	.			.*180 DYS
	ASCO		. RBP	00112.*RR			.
	HV200-926-1F-EP	172	. 310574	.			.
			.			*L	.*A
			. .	.			.*070 MIN
			. .	.			.
			. .	.			.
.1T46*SOV039B	OPERATES 1T46*AOV039B		.			*H,M	.*B
	FISHER CONT.	1E	. K-15	.			.*180 DYS
	ASCO		. RBS	00112.*RR			.
	HV200-926-1F-EP	172	. 310574	.			.
			.			*L	.*A
			. .	.			.*070 MIN
			. .	.			.
			. .	.			.
.1T46*SOV039C	OPERATES 1T46*AOV039C		.			*H,M	.*B
	FISHER CONT.	1E	. G-02	.			.*180 DYS
	ASCO		. RBS	00040.*RR			.
	HV200-926-1F-EP	172	. 373023	.			.
			.			*L	.*A
			. .	.			.*070 MIN
			. .	.			.
			. .	.			.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUEMG	OPER CODE
.1T46*SOV039D	OPERATES 1T46*A0V039D		.			*H,M	.*B
	FISHER CONT.	1E	. G-02		.		.*180 DYS
	ASCO		. RBS	00040.	*RR		.
	HV200-926-1F-EP	172	. 373023		.		.
			.			*L	.*A
			.		.		.*070 MIN
			.		.		.
			.		.		.
.1C11*SOV048A	BACK UP SCRAM SYSTEM		.			H,M	. A
	*AUTOMATIC SWITCH CO.	1E	. G-05		.		. 070 MIN
	*ASCO	*	. RBS	00063.	*DR		.
	*NP8316C37	*FIELD.	*FIELD		.		.
			.			L	. A
			.		.		. 070 MIN
			.		.		.
			.		.		.
.1C11*SOV048B	BACK UP SCRAM SYSTEM		.			H,M	. A
	*AUTOMATIC SWITCH CO.	1E	. G-05		.		. 070 MIN
	*ASCO	*RG	. RBS	00063.	*DR		.
	*NP8316C37	*FIELD.	*FIELD		.		.
			.			L	. A
			.		.		. 070 MIN
			.		.		.
			.		.		.
.1C11*SOV042A	BACK UP SCRAM SYSTEM		.			H,M	. A
	*GENERAL ELECT	1E	.*G-05		. 3909		. 070 MIN
	ASCO	RG	. RBS	00063.	EQ		.
	NP8316C37	003	. 310010		.		.
			.			L	. A
			.		.		. 070 MIN
			.		.		.
			.		.		.
.1C11*SOV042B	BACK UP SCRAM SYSTEM		.			H,M	. A
	*GENERAL ELECT	1E	.*G-05		. 3909		. 070 MIN
	ASCO	RG	. RBS	00063.	EQ		.
	NP8316C37	003	. 310010		.		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
			.			L	. A
			.	.	.		. 070 MIN
			.	.	.		.
			.	.	.		.
.1C11-SOV052	SCRAM DISCHARGE AIR PILOT		.			H,M	. B
	AUTOMATIC SWITCH CO.	1E	.*G-05	.	.		. 180 DYS
	ASCO	*	.*RBS	*00063.	.*DR		.
	NP8323A22E	*FIELD.	.*FIELD	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1P42*PS021A	PUMP 1P42*P005A DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AHR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS021B	PUMP 1P42*P005B DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AHR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS021C	PUMP 1P42*P005C DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AHR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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.1P42*PS022A	PUMP 1P42*P005A DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS022B	PUMP 1P42*P005B DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS022C	PUMP 1P42*P005C DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*070 MIN
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS046A	PUMP 1P42*P005A DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*180 DYS
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS046B	PUMP 1P42*P005B DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*180 DYS
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. *1% SP
.1P42*PS046C	PUMP 1P42*P005C DISCH		.			*H,M	.*A
	AUTO SWITCH	1E	. H-18	.*	.		.*180 DYS
	ASCO		. RBS	150.*TA/IJ	.		.
	SB11AKR/TF10A32B	348	. 10072	.	.		. *1% SP
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. *1% SP
1P50*PS105A	SERV AIR HDR A PRESS		.			H,M	. A
04450008	AUTO SWITCH	1E	. G-10	.	.		. 070 MIN
	ASCO		. RBS	151. TA/IJ	.		.
	SB11AKR/TG10A32B	348	. 10072	.	.		. 1% SPAN
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	OP CODE B FOR LOCA						
1P50*PS105B	SERV AIR HDR B PRESS		.			H,M	. A
04470008	AUTO SWITCH	1E	. H-18	.	.		. 070 MIN
	ASCO		. RBS	151. TA/IJ	.		.
	SB11AKR/TG10A32B	348	. 10072	.	.		. 1% SPAN
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	OP CODE B FOR LOCA						
.1P50*PS113A	SERV AIR HDR A NORM SUP		.			H,M	. A
04490008	AUTO SWITCH	1E	. H-18	.*	.		. 070 MIN
	ASCO		. RBS	151.*TA/IJ	.		.
	SB11AKR/TG10A32B	348	. 10072	.	.		. 1% SPAN
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. 1% SPAN

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC MU-CAT SPEC	ZONE BLDG PO NUMBER	ELEV	EQ SHEET QUAL STAT	EMG COND SUBMG	OPER CODE
	OP CODE B FOR LOCA						
.1P50*PS113B	SERV AIR HDR B NORM SUP					H,H	A
04510008	AUTO SWITCH	1E	G-12	.*			070 MIN
	ASCO		RBS	151.*TA/IJ			
	SB11AKR/TG10A32B	348	10072				1% SPAN
						L	A
							180 DYS
							1% SPAN
	OP CODE B FOR LOCA						
1B21*SOV036B	REACTOR FW INLET AOV036A					H,H	B
	VELAN	1E	T-08	232-01			180 DYS
	ASCO		ST	00087. EQ			
	WJHBX-8320-A89E	232	310595				
						L	A
							070 MIN
	OP CODE B FOR HELB & MELB						
1E21*SOV081A	FOR 1E21*AOV081A					H,H	B
	VELAN	1E	B-22	232-01			180 DYS
	ASCO		RBP	00126. EQ			
	WJHBX-8320-A89E	232	310595				
						L	B
							180 DYS
						MST	
.1B31*SOV081	OPERATES 1B31*AOV081					H,H	B
	COPES VULCAN	1E	B-22	318-01			180 DYS
	ASCO		RBS	00133. EQ			
	WJHBX-8320-A89E	318	310735				
						L	A
							070 MIN

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1B21*SOV036A	OPERATES 1B21*AOV036A					H,H	B
	VELAN	1E	T-08		232-01		180 DYS
	ASCO		ST	00087.	EQ		
	WJHKX-8320-A89E	232	310595				
						L	A
							070 MIN
	OP CODE B FOR HELB & MELB						
.1E11*SOV081A	ON 1E11*AOV081A					ALL	B
	*VELAN	1E	D-22		232-01		180 DYS
	ASCO		RBP	00079.	EQ		
	WJHKX-8320-A89E	232	310595			MST	
1E11*SOV081B	FOR 1E11*AOV081B					ALL	B
	VELAN	1E	D-22		232-01		180 DYS
	ASCO		RBP	00079.	EQ		
	WJHKX-8320-A89E	232	310595			MST	
1E21*SOV081B	FOR 1E21*AOV081B					H,H	B
	VELAN	1E	B-22		232-01		180 DYS
	ASCO		RBP	00126.	EQ		
	WJHKX-8320-A89E	232	310595				
						L	B
							180 DYS
						MST	
.1P42*SOV282	RBCLCW RETURN CHECK VLV					*H,M	.*B
	VELAN	1E	G-01		232-01		.*180 DYS
	ASCO		RBS	00016.	EQ		
	WJHKX-8320-A89E	232	310595				
						*L	.*A
							.*070 MIN
.1P42*SOV293	RBCLCW RETURN CHECK VLV					*H,M	.*B
	VELAN	1E	G-01		232-01		.*180 DYS
	ASCO		RBS	00039.	EQ		
	WJHKX-8320-A89E	232	310595				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT		EMG COND / SUBMG	OPER CODE
							*L	.*A
								.*070 MIN
.1P42*SOV294	RBCLCW RETURN CHECK VLV						*H,M	.*B
	VELAN	1E	G-01		232-01			.*180 DYS
	ASCO		RBS	00039.	EQ			
	WJHKX-8320-A09E	232	310595					
							*L	.*A
								.*070 MIN
.1B31*SOV082	OPERATES 1B31*AOV082						H,M	. B
	COPES VULCAN	1E	H-18		318-01			. 180 DYS
	ASCO		RBS	00155.	EQ			
	WJHKX-8320-A89E	318	310735					
							L	. A
								. 070 MIN
1E11*SOV003A	STM TO RHR HX SHELL						ALL	. B
	COPES VULCAN	1E	G-03		318-01			. 180 DYS
	ASCO		RBS	65.	EQ			
	WJHKX-8320-A89E	318	310735					NA
1E11*SOV003B	STM TO RHR HX SHELL						ALL	. B
	COPES VULCAN	1E	G-07		318-01			. 180 DYS
	ASCO		RBS	65.	EQ			
	WJHKX-8320-A89E	318	310735					NA
1E11*SOV007A	STM TO RHR HX SHELL						ALL	. B
	COPES VULCAN	1E	G-01		318-01			. 180 DYS
	ASCO		RBS	12.	EQ			
	WJHKX-8320-A89E	318	310735					NA
1E11*SOV007B	STM TO RHR HX SHELL						ALL	. B
	COPES VULCAN	1E	G-01		318-01			. 180 DYS
	ASCO		RBS	10.	EQ			
	WJHKX-8320-A89E	318	310735					NA

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MRK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1E11*SOV061A	RHR SAMPLE LINE VALVE					ALL	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	8.	EQ		
	WJHKX-8320-A89E	318	310735				NA
1E11*SOV061B	RHR SAMPLE LINE VALVE					ALL	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	8.	EQ		
	WJHKX-8320-A89E	318	310735				NA
1E11*SOV062A	RHR SAMPLE LINE VALVE					ALL	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	8.	EQ		
	WJHKX-8320-A89E	318	310735				NA
1E11*SOV062B	RHR SAMPLE LINE VALVE					ALL	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	8.	EQ		
	WJHKX-8320-A89E	318	310735				NA
.1E41*SOV081	OPERATES 1E41*AOV081					H,M	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	00008.	EQ		
	WJHKX-8320-A89E	318	310735				
						L	A
							070 MIN
	MARK NO. REPRESENTS 4 SWITCHES						
.1E41*SOV082	OPERATES 1E41*AOV082					H,M	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	00008.	EQ		
	WJHKX-8320-A89E	318	310735				
						L	A
							070 MIN
	MARK NO. REPRESENTS 4 SWITCHES						
.1E41*SOV083	OPERATES 1E41*AOV083					H,M	A
	COPES VULCAN	1E	G-01		318-01		070 MIN
	ASCO		RBS	00008.	EQ		
	WJHKX-8320-A89E	318	310735				

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						070 MIN
1E41*SOV091	OPERATES 1E41*LCV091				H,M	B
	COPES VULCAN	1E	G-01	318-01		180 DYS
	ASCO		RBS 00008.	EQ		
	WJHKX-8320-A89E	318	310735			
					L	B
						180 DYS
1E41*SOV095	OPERATES 1E41*LCV095				ALL	A
	COPES VULCAN	1E	G-01	318-01		070 MIN
	ASCO		RBS 00008.	EQ		
	WJHKX-8320-A89E	318	310735			NA
					H,M	A
						070 MIN
					L	A
						070 MIN
.1E51*SOV081	OPERATES 1E51*AOV081				*H,M	*B
	COPES VULCAN	1E	G-01	318-01		*180 DYS
	ASCO		RBS 00008.	EQ		
	WJHKX-8320-A89E	318	310735			
					*L	*B
						*180 DYS
.1E51*SOV082	OPERATES 1E51*AOV082				*H,M	*B
	COPES VULCAN	1E	G-01	318-01		*180 DYS
	ASCO		RBS 00008.	EQ		
	WJHKX-8320-A89E	318	310735			

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1E51*SOV083	OPERATES 1E51*AOV083		.			*H,M	.*B
	COPES VULCAN	1E	. G-01	.	318-01 .		.*180 DYS
	ASCO		. RBS	00008.	EQ .		.
	WJHKX-8320-A89E	318	. 310735	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1E51*SOV091	OPERATES 1E51*LCV091		.			*H,M	.*B
	COPES VVLCAN	1E	. G-01	.	318-01 .		.*180 DYS
	ASCO		. RBS	00008.	EQ .		.
	WJHKX-8320-A89E	318	. 310735	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1E51*SOV095	OPERATES 1E51*LCV095		.			*H,M	.*B
	COPES VVLCAN	1E	. G-01	.	318-01 .		.*180 DYS
	ASCO		. RBS	00008.	EQ .		.
	WJHKX-8320-A89E	318	. 310735	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1T46*SOV040A	OPERATES AOD040A		.			*H,M	.*A
	POWERS REGUL	1E	. H-18	.	319-03 .		.*070 MIN
	ASCO		. RBS	00150.	EQ .		.
	WJHKX-8320-A89E	319	. 310738	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1T46*SOV040B	OPERATES AOD040B					*H,M	.*A
	POWERS REGUL	1E	H-18		319-03		.*070 MIN
	ASCO		RBS	00150.	EQ		
	WJHKX-8320-A89E	319	310738				
						*L	.*A
							.*070 MIN
.1T46*SOV041A	OPERATES AOD041A					*H,M	.*A
	POWERS REGUL	1E	K-15		319-03		.*070 MIN
	ASCO		RBS	00112.	EQ		
	WJHKX-8320-A89E	319	310738				
						*L	.*A
							.*070 MIN
.1T46*SOV041B	OPERATES AOD041B					*H,M	.*A
	POWERS REGUL	1E	K-15		319-03		.*070 MIN
	ASCO		RBS	00112.	EQ		
	WJHKX-8320-A89E	319	310738				
						*L	.*A
							.*070 MIN
.1P42*SOV001W	RBCLCW HX E-11A BYPASS					*H,M	.*A
	FISHER CONTRO	1E	G-01		423-01		.*180 DYS
	ASCO		RBS	00008.	EQ		
	WJHKX-8320-A89E	423	310772				
						*L	.*A
							.*070 MIN
	LOCA IS OP CODE B AFTER 70 MIN						
.1P42*SOV001X	RBCLCW HX E-11A BYPASS					*H,M	.*A
	FISHER CONTRO	1E	G-01		423-01		.*180 DYS
	ASCO		RBS	00008.	EQ		
	WJHKX-8320-A89E	423	310772				

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG ELEV FD NUMBER	EQ SHEET QUAL STAT	EMS COND SUBMG	OPER CODE
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	LOCA IS OP CODE B AFTER 70 MIN					
.1P42*SOV001Y	RBCLCW HX E-11B BYPASS		.		*H,M	.*A
	FISHER CONTRO	1E	. G-01	. 423-01 .		.*180 DYS
	ASCO		. RBS 00008.	EQ .		.
	WJHKX-8320-A89E	423	. 310772	. .		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	LOCA IS OP CODE B AFTER 70 MIN					
.1P42*SOV001Z	RBCLCW HX E-11B BYPASS		.		*H,M	.*A
	FISHER CONTRO	1E	. G-01	. 423-01 .		.*180 DYS
	ASCO		. RBS 00008.	EQ .		.
	WJHKX-8320-A89E	423	. 310772	. .		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	LOCA IS OP CODE B AFTER 70 MIN					
1T24*SOV001A	DRYWELL ISOL VLV 1T24*AV0001A		.		H,M	. B
	COPES VULCAN	1E	. G-02	. 318-02 .		. 180 DYS
	ASCO		. RBS 00040.	EQ .		.
	WJK206-300-6F	318	. 310735	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. NA
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
1T24*SOV001B	DRYWELL ISOL VLV 1T24*AV0001B		.		H,M	. B
	COPES VULCAN	1E	. G-02	. 318-02 .		. 180 DYS
	ASCO		. RBS 00040.	EQ .		.
	WJK206-300-6F	318	. 310735	. .		.

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JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. NA
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
.1T24*SOV004A	SUPP CHB ISL VLVE 1T24*AOV004A.				H,H	. B
	COPES VULCAN	1E	. G-02 .	.		. 180 DYS
	ASCO	*	.*RBS *00063.	.		.
	WJK206-380-6F	*318	.*310735 .	.		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
.1T24*SOV004B	SUPP CHB ISL VLVE 1T24*AOV004B.				H,H	. B
	COPES VULCAN	1E	. G-02 .	.		. 180 DYS
	ASCO	*	.*RBS 00040.	.		.
	WJK206-380-6F	*318	.*310735 .	.		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
.1T46*SOV078A	NR MOV 078A		.		*H,H	.*B
	COPES VULCAN	1E	. G-12 . 318-02	.		.*180 DYS
	ASCO		. RBS 00090. EQ	.		.
	WJK206-380-6F	318	. 310735 .	.		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
.1T46*SOV078B	DRYWELL VENT TO PRIM CNT		.		*H,H	.*B
	COPES VULCAN	1E	. G-12 . 318-02	.		.*180 DYS
	ASCO		. RBS 00090. EQ	.		.
	WJK206-380-6F	318	. 310735 .	.		.

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JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					*L	.*A
						.*070 MIN
.1T46*SOV079A	OPERATES 1T46*AOV079A				*H,M	.*B
	COPES VULCAN	1E	G-06	318-02		.*180 DYS
	ASCO		RBS 00063.	EQ		
	WJK206-380-6F	318	310735			
					*L	.*A
						.*070 MIN
.1T46*SOV079B	OPERATES 1T46*AOV079B				*H,M	.*B
	COPES VULCAN	1E	G-06	318-02		.*180 DYS
	ASCO		RBS 00063.	EQ		
	WJK206-380-6F	318	310735			
					*L	.*A
						.*070 MIN
1R24*TRS111X	480V AUTO TRANSFER SWITCH				ALL	. A
	ASCO	1E	N-21			. 180 DYS
	ASCO		RBS 112.	TA/IJ		
	307A66C	438	310922			
1R24*TRS112Y	480V AUTO TRANSFER SWITCH				ALL	. A
	ASCO	1E	N-21			. 180 DYS
	ASCO		RBS 112.	TA/IJ		
	307A66C	438				

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

REPORT GROUP MAK = ATOMICS INT

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1T48*RC002A	HYDROGEN RECOMB		.		H,M	. B
	ATOMICS INT	1E	.*J-16	.		. 180 DYS
	ATOMICS INT		. RBS 00112.	TA/IJ		.
	N/A	289	. 310624	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.
1T48*RC002B	HYDROGEN RECOMB		.		H,M	. B
	ATOMICS INT	1E	. J-16	.		. 180 DYS
	ATOMICS INT		. RBS 00112.	TA/IJ		.
	N/A	289	. 310624	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.
.1T48*PNL048A	HYD RECOMBINER EQUIP		.		H,M	. B
	ATOMICSINT	1E	. J-16	.*		. 180 DYS
	ATOMICS INT	*	. RBS 00112.	TA/IJ		.
	N/A	*344	.*310737	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.
.1T48*PNL048B	HYD RECOMBINER EQUIP		.		H,M	. B
	ATOMICSINT	1E	. J-16	.*		. 180 DYS
	ATOMICS INT	*	. RBS 00112.	TA/IJ		.
	N/A	*344	.*310737	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

REPORT GROUP MAK = BAILEY

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1E11*PT003A	STM TO RHR HX SHELL		G-01		3094	H,M	B
E11-N026A	GENERAL ELEC	1E	RBS	00008.	RR/IJ		180 DYS
	BAILEY		310010				
	KG55610DAAA1WEM	003					2Z
						L	B
							180 DYS
							2Z
1E11*PT003B	STM TO RHR HX SHELL		G-01		3094	H,M	B
E11-N026B	GENERAL ELEC	1E	RBS	00008.	RR/IJ		180 DYS
	BAILEY		310010				
	KG55610DAAA1WEM	003					2Z
						L	B
							180 DYS
							2Z
1E11*PT005	RHR HX SHELL TO RCIC		G-01		3094	H,M	B
E11-N028	GENERAL ELEC	1E	RBS	00008.	RR/IJ		180 DYS
	BAILEY		310010				
	KG556110CAAA1WEL	003					2Z
						L	B
							180 DYS
							2Z
1E21*PT001A	CORE SPRAY PUMP DISCH		G-01		3094	H,M	B
E21-N001A	GENERAL ELEC	1E	RBS	00008.	RR/IJ		180 DYS
	BAILEY		310010				
	KG556110DAAA1WEM	003					
						L	B
							180 DYS

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STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1E21*PT001B	CORE SPRAY PUMP DISCH					H,M	B
E21-N001B	GENERAL ELEC	1E	G-01		3094		180 DYS
	BAILEY		RBS	00008.	RR/IJ		
	KG556110DAAA1WEM	003	310010				
						L	B
							180 DYS
.1E41-PT002	HPCI PUMP DISCHARGE					H,M	B
E41-N009	GENERAL ELEC	1E	G-01				180 DYS
	*BAILEY	1E	RBS	00008.	IJ		
	*KG556110EAAA1WEN	003	310010				
						L	B
							180 DYS
.1E41-PT004	HPCI STM TO TURBINE					H,M	B
E41-N013	GENERAL ELEC	1E	G-01				180 DYS
	*BAILEY	1E	RBS	00008.	IJ		
	*KG556110EAAA1WEN	003	310010				
						L	B
							180 DYS
.1E41-PT005	TURBINE DISCH					H,M	B
E41-N016	GENERAL ELEC	1E	G-01				180 DYS
	*BAILEY	1E	RBS	00008.	IJ		
	*KG556110EAAA1WEN	003	310010				
						L	B
							180 DYS
.1C61*PT006	NUCLEAR PRESSURE					H,M	B
C61-N006	GENERAL ELEC	1E	G-09		3094		180 DYS
	BAILEY		RBS	00078.	RR/IJ		
	556100EAAA1WEN	003	310010				

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATIC
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						L	B
							180 DYS
.1E51*PT001	RCIC PUMP SUCTION					*H,M	.*B
E51-N005	GENERAL ELEC	1E	G-01		3094		.*180 DYS
	BAILEY		RBS	00008.	RR/IJ		
	556110EAAA1WEN	003	310010				*1Z
						*L	.*B
							.*180 DYS
							*1Z
.1E51*PT002	RCIC PUMP DISCHARGE					*H,M	.*B
E51-N004	GENERAL ELEC	1E	G-01		3094		.*180 DYS
	BAILEY		RBS	00008.	RR/IJ		
	556110EAAA1WEN	003	310010				*1Z
						*L	.*B
							.*180 DYS
							*1Z
.1E51*PT004	RCIC STM TO TURBINE					*H,M	.*B
E51-N007	GENERAL ELEC	1E	G-01		3094		.*180 DYS
	BAILEY		RBS	00008.	RR/IJ		
	556110EAAA1WEN	003	310010				*1Z
						*L	.*B
							.*180 DYS
							*1Z
.1E51*PT005	TURBINE DISCHARGE					*H,M	.*B
E51-N008	GENERAL ELEC	1E	G-01		3094		.*180 DYS
	BAILEY		RBS	00008.	RR/IJ		
	556110EAAA1WEN	003	310010				*1Z
						*L	.*B
							.*180 DYS
							*1Z

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1E32*FS037A	MSIV A LEAK TO LPM					H,M	B
E32-N653B	GENERAL ELEC	1E	G-06		3017		180 DYS
	BAILEY		RBS	00065.			
	745110AAAE1	003	310010				
						L	A
							100 DYS
1E32*FS037B	MSIV B LEAK TO LPM					H,M	B
E32-N0653F	GENERAL ELEC	1E	G-06		3017		180 DYS
	BAILEY		RBS	00065.			
	745110AAAE1	003	310010				
						L	A
							100 DYS
1E32*FS037C	MSIV C LEAK TO LPM					H,M	B
E32-N0653K	GENERAL ELEC	1E	G-06		3017		180 DYS
	BAILEY		RBS	00065.			
	745110AAAE1	003	310010				
						L	A
							100 DYS
1E32*FS037D	MSIV D LEAK TO LPM					H,M	B
E32-N0653P	GENERAL ELEC	1E	G-06		3017		180 DYS
	BAILEY		RBS	00065.			
	745110AAAE1	003	310010				
						L	A
							100 DYS

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
REPORT GROUP MAK	= BARKSDALE						
.1B21*PS022B	MAIN STEAM LINE ISO		.			*H,M	.*B
B21-N020B	GENERAL ELEC	1E	. G-10		. 3018 .		.*180 DYS
	BARKSDALE		. RBS	00078.	EQ .		.
	BIT-M12SS	003	. 310010		. .		.
			.			L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. 1.5%
	OP CODE B FOR HELB & MELB						
.1B21*PS022D	MAIN STEAM LINE ISO		.			*H,M	.*B
B21-N020D	GENERAL ELEC	1E	. G-12		. 3018 .		.*180 DYS
	BARKSDALE		. RBS	00078.	EQ .		.
	BIT-M12SS	003	. 310010		. .		.
			.			L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. 1.5%
	OP CODE B FOR HELB & MELB						
.1B21*PS022A	MAIN STEAM LINE ISO		.			*H,M	.*B
B21-N020A	GENERAL ELEC	1E	. G-10		. 3018 .		.*180 DYS
	BARKSDALE		. RBS	00078.	EQ .		.
	*BIT-M12SS-GE	003	. 310010		. .		.
			.			L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. 1.5%
	OP CODE B FOR HELB & MELB						
.1B21*PS022C	MAIN STEAM LINE ISO		.			*H,M	.*B
B21-N020C	GENERAL ELEC	1E	. G-12		. 3018 .		.*180 DYS
	BARKSDALE		. RBS	00078.	EQ .		.
	*BIT-M12SS-GE	003	. 310010		. .		.
			.			L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. 1.5%
	OP CODE B FOR HELB & MELB						

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEN - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
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RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*PS134A	RHR PUMP DISCHARGE		.		H,M	. A
E11-N016A	GENERAL ELEC	1E	. G-01	. 3018 .		. 007 DYS
	BARKSDALE		. RBS	8. EQ .		.
	*B1T-M12SS-GE	003	. 310010	. .		. 0.8%
			.		L	. A
			. .	.		. 007 DYS
			. .	.		.
			. .	.		. 0.8%
.1E11*PS134B	RHR PUMP DISCHARGE		.		H,M	. A
E11-N016B	GENERAL ELEC	1E	. G-01	. 3018 .		. 007 DYS
	BARKSDALE		. RBS	8. EQ .		.
	*B1T-M12SS-GE	003	. 310010	. .		. 0.8%
			.		L	. A
			. .	.		. 007 DYS
			. .	.		.
			. .	.		. 0.8%
.1E11*PS134C	RHR PUMP DISCHARGE		.		H,M	. A
E11-N016C	GENERAL ELEC	1E	. G-01	. 3018 .		. 007 DYS
	BARKSDALE		. RBS	8. EQ .		.
	*B1T-M12SS-GE	003	. 348838	. .		. 0.8%
			.		L	. A
			. .	.		. 007 DYS
			. .	.		.
			. .	.		. 0.8%
.1E11*PS134D	RHR PUMP DISCHARGE		.		H,M	. A
E11-N016D	GENERAL ELEC	1E	. G-01	. 3018 .		. 007 DYS
	BARKSDALE		. RBS	8. EQ .		.
	*B1T-M12SS-GE	003	. 310010	. .		. 0.8%
			.		L	. A
			. .	.		. 007 DYS
			. .	.		.
			. .	.		. 0.8%
.1E11*PS135A	RHR PUMP DISCHARGE		.		H,M	. A
E11-N020A	GENERAL ELEC	1E	. G-01	. 3018 .		. 007 DYS
	BARKSDALE		. RBS	8. EQ .		.
	*B1T-M12SS-GE	003	. 310010	. .		. 0.8%

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	. A
			.	.	.		. 007 DYS
			.	.	.		.
			.	.	.		. 0.6%
.1E11*PS135B	RHR PUMP DISCHARGE		.			H,M	. A
E11-N020B	GENERAL ELEC	1E	. G-01		. 3018 .		. 007 DYS
	BARKSDALE		. RBS		8. EQ .		.
	*B1T-M12SS-GE	003	. 310010		. .		. 0.6%
			.			L	. A
			.	.	.		. 007 DYS
			.	.	.		.
			.	.	.		. 0.6%
.1E11*PS135C	RHR PUMP DISCHARGE		.			H,M	. A
E11-N020C	GENERAL ELEC	1E	. G-01		. 3018 .		. 007 DYS
	BARKSDALE		. RBS		8. EQ .		.
	*B1T-M12SS-GE	003	. 348938		. .		. 0.6%
			.			L	. A
			.	.	.		. 007 DYS
			.	.	.		.
			.	.	.		. 0.6%
.1E11*PS135D	RHR PUMP DISCHARGE		.			H,M	. A
E11-N020D	GENERAL ELEC	1E	. G-01		. 3018 .		. 007 DYS
	BARKSDALE		. RBS		8. EQ .		.
	*B1T-M12SS-GE	003	. 310010		. .		. 0.6%
			.			L	. A
			.	.	.		. 007 DYS
			.	.	.		.
			.	.	.		. 0.6%
.1E51*PS002	RCIC PUMP DISCHARGE		.			*H,M	.*B
E51-N020	GENERAL ELEC	1E	. G-01		. 3018 .		.*180 DYS
	BARKSDALE		. RBS	00008.	EQ .		.
	*B1T-M12SS-GE	003	. 310010		. .		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
.1E41*PS002	HPCI PUMP DISCHARGE		.		H,M	. A
E41-N027	GENERAL ELEC	1E	. G-01	. 3018		. 012 HRS
	BARKSDALE		. RBS 00008.	EQ		.
	*B1T-N12SS-GE801	003	. 310010	.		.
			.		L	. A
			. .	.		. 012 HRS
			. .	.		.
			. .	.		.
.1E41*PS026A	HIGH EXHAUST LINE PRESS		.		H,M	. A
E41-N017A	G.E.	1E	. G-01	.*3018		. 012 HRS
	BARKSDALE		. RBS 00008.	EQ		.
	*B1T-12SS-GE	003	. 310010	.		. 10%
			.		L	. A
			. .	.		. 012 HRS
			. .	.		.
			. .	.		. 10%
.1E41*PS026B	HIGH EXHAUST LINE PRESS		.		H,M	. A
E41-N017B	G.E.	1E	. G-01	.*3018		. 012 HRS
	BARKSDALE		. RBS 00008.	EQ		.
	*B1T-12SS-GE	003	. 310010	.		. 10%
			.		L	. A
			. .	.		. 012 HRS
			. .	.		.
			. .	.		. 10%
.1E51*PS025A	DRAIN POT VENT		.		*H,M	.*B
E51-N012A	GENERAL ELEC	1E	. G-01	. 3021		.*180 DYS
	BARKSDALE		. RBS 00008.	EQ		.
	D2H-A150SS	003	. 310010	.		. *2.7%
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		. *2.7%
.1E51*PS025B	DRAIN POT VENT		.		*H,M	.*B
E51-N012B	GENERAL ELEC	1E	. G-01	. 3021		.*180 DYS
	BARKSDALE		. RBS 00008.	EQ		.
	D2H-A150SS	003	. 310010	.		. *2.7%

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JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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						*L	.*B .*180 DYS . *2.7%
.1E51*PS025C E51-N012C	DRAIN POT VENT GENERAL ELEC BARKSDALE D2H-A150SS	1E 003	G-01 RBS 310010	00008.	3021 EQ	*H,M	.*B .*180 DYS . *2.7%
						*L	.*B .*180 DYS . *2.7%
.1E51*PS025D E51-N012D	DRAIN POT VENT GENERAL ELEC BARKSDALE D2H-A150SS	1E 003	G-01 RBS 310010	00008.	3021 EQ	*H,M	.*B .*180 DYS . *2.7%
						*L	.*B .*180 DYS . *2.7%
.1E41*PS025A E41-N012A	DRAIN POT VENT G.E. BARKSDALE *D2H-M150SS	1E 003	G-01 RBS 310010	00008.	3021 EQ	H,M	. A . 012 HRS
						L	. A . 012 HRS
.1E41*PS025B E41-N012B	DRAIN POT VENT G.E. BARKSDALE *D2H-M150SS	1E 003	G-01 RBS 310010	00008.	3021 EQ	H,M	. A . 012 HRS
						L	. A . 012 HRS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E41*PS025C	DRAIN POT VENT				H,M	A
E41-N012C	G.E.	1E	G-01	3021		012 HRS
	BARKSDALE		RBS 00008.	EQ		
	*D2H-M150SS	003	310010			
					L	A
						012 HRS
.1E41*PS025D	DRAIN POT VENT				H,M	A
E41-N012D	G.E.	1E	G-01	3021		012 HRS
	BARKSDALE		RBS 00008.	EQ		
	*D2H-M150SS	003	310010			
					L	A
						012 HRS
1E11*PS138A	PRIMARY CONTAINMENT HP				H,M	A
E11-N010A	GENERAL ELEC	1E	G-10	3021		007 DYS
	BARKSDALE		RBS 00008.	EQ		
	D2H-M185S	003	310010			0.7%
					L	A
						007 DYS
						0.7%
	QUALED FOR LOCA EMG COND OP CD A FOR 070 MIN					
1E11*PS138B	PRIMARY CONTAINMENT HP				H,M	A
E11-N010B	GENERAL ELEC	1E	H-12	3021		007 DYS
	BARKSDALE		RBS 00078.	EQ		
	D2H-M185S	003	310010			0.7%
					L	A
						007 DYS
						0.7%
	QUALED FOR LOCA EMG COND OP CD A FOR 070 MIN					
1E11*PS138C	PRIMARY CONTAINMENT HP				H,M	A
E11-N010C	GENERAL ELEC	1E	G-10	3021		007 DYS
	BARKSDALE		RBS 00078.	EQ		
	D2H-M185S	003	310010			0.7%

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
						L	A
							007 DYS
							0.7%
	QUALED FOR LOCA EMS COND OP CD A FOR 070 MIN						
1E11*PS138D	PRIMARY CONTAINMENT HP					H,M	A
E11-N010D	GENERAL ELEC	1E	H-12		3021		007 DYS
	BARKSDALE		RBS	00078.	EQ		
	D2H-M18SS	003	310010				0.7%
						L	A
							007 DYS
							0.7%
	QUALED FOR LOCA EMS COND OP CD A FOR 070 MIN						
.1E11*PS139A	PRIMARY CONT HP					H,M	A
E11-N011A	GENERAL ELEC	1E	G-10		3021		070 MIN
	BARKSDALE		RBS	00078.	IJ		
	D2H-M18SS	003	310010				
						L	A
							070 MIN
							1%
.1E11*PS139B	PRIMARY CONT HP					H,M	A
E11-N011B	GENERAL ELEC	1E	G-10		3021		070 MIN
	BARKSDALE		RBS	00078.	IJ		
	D2H-M18SS	003	310010				
						L	A
							070 MIN
							1%
.1E11*PS139C	PRIMARY CONT HP					H,M	A
E11-N011C	GENERAL ELEC	1E	G-10		3021		070 MIN
	BARKSDALE		RBS	00078.	IJ		
	D2H-M18SS	003	310010				
						L	A
							070 MIN
							1%

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STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*PS139D	PRIMARY CONT HP					H,M	A
E11-N011D	GENERAL ELEC	1E	G-12		3021		070 MIN
	BARKSDALE		RBS	00078.	IJ		
	D2H-M10SS	003	310010				
						L	A
							070 MIN
							1%
.1E51*PS026A	HIGH EHAUST LINE PRESS					*H,M	.*B
E51-N009A	GENERAL ELEC	1E	G-01		3021		.*180 DYS
	BARKSDALE		RBS	00008.	EQ		
	D2H-M80SS	003	310010				*2.7%
						*L	.*B
							.*180 DYS
							*2.7%
.1E51*PS026B	HIGH EHAUST LINE PRESS					*H,M	.*B
E51-N009B	GENERAL ELEC	1E	G-01		3021		.*180 DYS
	BARKSDALE		RBS	00008.	EQ		
	D2H-M80SS	003	310010				*2.7%
						*L	.*B
							.*180 DYS
							*2.7%
1E21*PS012A	CORE SPRAY PUMP DISCH					H,M	B
E21-N008A	GENERAL ELEC	1E	G-01		3025		180 DYS
	BARKSDALE		RBS	8.	EQ		
	P1H-M34SS	003	310010				
						L	A
							002 DYS
							1.5%
1E21*PS012B	CORE SPRAY PUMP DISCH					H,M	B
E21-N008B	GENERAL ELEC	1E	G-01		3025		180 DYS
	BARKSDALE		RBS	8.	EQ		
	P1H-M34SS	003	310010				

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					L	A
						002 DYS
						1.5%
1E21*PS013A	CORE SPRAY PUMP DISCH				H,M	B
E21-N009A	GENERAL ELEC	1E	G-01	3025		180 DYS
	BARKSDALE		RBS	8. EQ		
	P1H-M34SS	003	310010			
					L	A
						002 DYS
						1.5%
1E21*PS013B	CORE SPRAY PUMP DISCH				H,M	B
E21-N009B	GENERAL ELEC	1E	G-01	3025		180 DYS
	BARKSDALE		RBS	8. EQ		
	P1H-M34SS	003	310010			
					L	A
						002 DYS
						1.5%

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK = BARTON

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
1B21*PDS02A1	MAIN STM LINE A FLOW DET					H,H	A
B21-N006A	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
							2%
1B21*PDS02A2	MAIN STM LINE A FLOW DET					H,H	A
B21-N006B	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
1B21*PDS02A3	MAIN STM LINE A FLOW DET					H,M	A
B21-N006C	GENERAL ELEC	1E	*L-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
1B21*PDS02A4	MAIN STM LINE A FLOW DET					H,M	A
B21-N006D	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS

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JOB CLIENT LILCO

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1B21*PDS02B1	MAIN STM LINE B FLOW DET				H,M	A
B21-N007A	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02B2	MAIN STM LINE B FLOW DET				H,M	A
B21-N007B	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02B3	MAIN STM LINE B FLOW DET				H,M	A
B21-N007C	GENERAL ELEC	1E	*L-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02B4	MAIN STM LINE B FLOW DET				H,M	A
B21-N007D	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02C1	MAIN STM LINE C FLOW DET				H,M	A
B21-N008A	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%

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						L	B
							180 DYS
1B21*PDS02C2	MAIN STM LINE C FLOW DET					H,M	A
B21-N008B	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
1B21*PDS02C3	MAIN STM LINE C FLOW DET					H,M	A
B21-N008C	GENERAL ELEC	1E	*L-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
1B21*PDS02C4	MAIN STM LINE C FLOW DET					H,M	A
B21-N008D	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RBS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS
1B21*PDS02D1	MAIN STM LINE D FLOW DET					H,M	A
B21-N009A	GENERAL ELEC	1E	G-02		3027		070 MIN
	BARTON		RDS	00040.	EQ		
	288A	003	310010				2%
						L	B
							180 DYS

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1B21*PDS02D2	MAIN STM LINE D FLOW DET				H,M	A
B21-N009B	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02D3	MAIN STM LINE D FLOW DET				H,M	A
B21-N009C	GENERAL ELEC	1E	*L-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1B21*PDS02D4	MAIN STM LINE D FLOW DET				H,M	A
B21-N009D	GENERAL ELEC	1E	G-02	3027		070 MIN
	BARTON		RBS 00040.	EQ		
	288A	003	310010			2%
					L	B
						180 DYS
1C71*PS004	PRIMARY CONTAINMENT HP				ALL	B
C71-N004	GENERAL ELEC	1E	G-10	3027		180 DYS
	BARTON		RBS 00078.	EQ		
	288A	003	310010			1% FS
1E21*PDS033A	CORE SPRAY PUMP DISCH				H,M	B
E21-N005A	GENERAL ELEC	1E	G-01	3027		180 DYS
	BARTON		RBS 00009.	EQ		
	288A	003	310010			
					L	A
						180 DYS

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1E21*PDS033B	CORE SPRAY PUMP DISCH		G-01		3027	H,M	B
E21-N005B	GENERAL ELEC	1E	RBS	00008.	EQ		180 DYS
	BARTON		310010				
	288A	003					
						L	A
							180 DYS
1E41*PDS022A	HPCI AUTO ISOLATION		G-01		3027	H,M	A
E41-N004	GENERAL ELEC	1E	RBS	00008.	EQ		012 HRS
	BARTON		310010				0.8%
	288A	003					
						L	A
							012 HRS
							0.8%
1E41*PDS022B	HPCI AUTO ISOLATION		G-01		3027	H,M	A
E41-N005	GENERAL ELEC	1E	RBS	00008.	EQ		012 HRS
	BARTON		310010				0.8%
	288A	003					
						L	A
							012 HRS
							0.8%
1E41*PS023A	HPCI AUTO ISOLATION		G-01		3027	H,M	A
E41-N001A	GENERAL ELEC	1E	RBS	00008.	EQ		012 HRS
	BARTON		310010				0.5%
	288A	003					
						L	A
							012 HRS
							0.5%
1E41*PS023B	HPCI AUTO ISOLATION		G-01		3027	H,M	A
E41-N001B	GENERAL ELEC	1E	RBS	00008.	EQ		012 HRS
	BARTON		310010				0.5%
	288A	003					

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						L	A
							012 HRS
							0.5%
1E41*PS023C	HPCI AUTO ISOLATION					H,M	A
E41-N001C	GENERAL ELEC	1E	G-01		3027		012 HRS
	BARTON		RBS	00008.	EQ		
	288A	003	310010				0.5%
						L	A
							012 HRS
							0.5%
1E41*PS023D	HPCI AUTO ISOLATION					H,M	A
E41-N001D	GENERAL ELEC	1E	G-01		3027		012 HRS
	BARTON		RBS	00008.	EQ		
	288A	003	310010				0.5%
						L	A
							012 HRS
							0.5%
.1E51*FS003	RCIC PUMP DISCHARGE					*H,M	.*B
E51-N002	GENERAL ELEC	1E	G-01		3027		.*180 DYS
	BARTON		RBS	00008.	IJ		
	288A	003	310010				*5 % FS
						*L	.*B
							.*180 DYS
							*5 % FS
.1E51*PDS022A	RCIC AUTO ISOLATION					*H,M	.*B
E51-N017	GENERAL ELEC	1E	L-02		3027		.*180 DYS
	BARTON		RBS	00040.	IJ		
	288A	003	310010				
						*L	.*B
							.*180 DYS

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.1E51*PDS022B	RCIC AUTO ISOLATION		.		*H,M	.*B
E51-N018	GENERAL ELEC	1E	. L-02	. 3027		.*180 DYS
	BARTON		. RBS 00040.	IJ		.
	288A	003	. 310010	.		.
			.		*L	.*B
			.	.		.*180 DYS
			.	.		.
			.	.		.
1E11*PDS001A	VALVE INTERLOCK		.		H,M	. A
E11-N021A	GENERAL ELEC	1E	. G-01	. 3027		. 180 DYS
	BARTON		. RBS 00008.	EQ		.
	289A	003	. 310010	.		. 16 GPM
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		. 1.5%
1E11*PDS001B	VALVE INTERLOCK		.		H,M	. A
E11-N021B	GENERAL ELEC	1E	. G-01	. 3027		. 180 DYS
	BARTON		. RBS 00008.	EQ		.
	289A	003	. 310010	.		. 16 GPM
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		. 1.5%
1E21*FIS002A	CORE SPRAY PUMP DISCH		.		H,M	. B
E21-N006A	GENERAL ELEC	1E	. G-01	. 3027		. 180 DYS
	BARTON		. RBS 00008.	EQ		.
	289A	003	. 310010	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.
1E21*FIS002B	CORE SPRAY PUMP DISCH		.		H,M	. B
E21-N006B	GENERAL ELEC	1E	. G-01	. 3027		. 180 DYS
	BARTON		. RBS 00008.	EQ		.
	289A	003	. 310010	.		.

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					L	A
						180 DYS
.1E41*FS003	HPCI PUMP DISCHARGE				H,M	A
E41-N006	GENERAL ELEC	1E	G-01	3027		012 HRS
	BARTON		RBS 00008.	EQ		
	289A	003	310010			
					L	A
						012 HRS
1E11*LT002A	RHR HX SHELL				H,M	B
E11-N008A	GENERAL ELEC	1E	G-01	3144		180 DYS
	BARTON		RBS 8.	RR/IJ		
	368	003	310010			0.5%SPAN
					L	B
						180 DYS
						0.5%SPAN
1E11*LT002B	RHR HX SHELL				H,M	B
E11-N008B	GENERAL ELEC	1E	G-01	3144		180 DYS
	BARTON		RBS 8.	RR/IJ		
	368	003	310010			0.5%SPAN
					L	B
						180 DYS
						0.5%SPAN
1B21*LIT004A	WIDE RANGE				L	B
B21-N026A	GENERAL ELEC	1E	G-10	3129		180 DYS
	BARTON		RBS 00078.	RR		
	760	003	310010			
1B21*LIT004B	WIDE RANGE				H,M	B
B21-N026B	GENERAL ELEC	1E	G-10	3129		180 DYS
	BARTON		RBS 00078.	RR		
	760	003	310010			

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						L	B
							180 DYS
							7.5 IN.
	OP CODE B FOR HELB & MELB						
.1B21*LIT007A	FUEL ZONE					H,M	A
B21-N037A	GENERAL ELEC	1E	G-09		3129		180 DYS
	BARTON	RG	RBS	00078.	RR/IJ		
	760	003	310010				
						L	A
							180 DYS
.1B21*LIT007B	FUEL ZONE					H,M	A
B21-N037B	GENERAL ELEC	1E	G-11		3129		180 DYS
	BARTON	RG	RBS	00078.	RR/IJ		
	760	003	310010				
						L	A
							180 DYS
.1B21*PT004A	REACTOR PRESSURE					H,M	A
B21-N055A	GENERAL ELEC	1E	G-10		3129		180 DYS
	BARTON	RG	RBS	00078.	RR/IJ		
	760	003	310010				
						L	A
							180 DYS
.1B21*PT004B	REACTOR PRESSURE					H,M	A
B21-N055B	GENERAL ELEC	1E	G-10		3129		180 DYS
	BARTON	RG	RBS	00078.	RR/IJ		
	760	003	310010				
						L	A
							180 DYS

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.1C61*LIT107	BACK-UP RCTR LEVEL INDICATION				H,M	B
	*GENERAL ELECTRIC	1	.*G-13			180 DYS
	*BARTON		.*RBS *00078.			
	*760	*003	.*310010			
					L	B
						180 DYS

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REPORT GROUP MAK = BECK

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.1E41*PCV142	TO LUBE OIL COOLER		.			H,M	. A
E41-F035	FISHER CONTRL	1E	. G-01		. 310-01		. 012 HRS
	BECK		. RBS	16.	*FT/IJ		.
	14-101-023645(ES)	310	. 310736		.		.
			.			L	. A
			.		.		. 012 HRS
			.		.		.
			.		.		.
.1E51*PCV142	TO LUBE OIL COOLER		.			*H,M	.*B
E51-F015	FISHER CONTRL	1E	. G-01		. 310-01		.*180 DYS
	BECK		. RBS	00008.	*FT/IJ		.
	14-101-023645(ES)	310	. 310736		.		.
			.			*L	.*B
			.		.		.*180 DYS
			.		.		.
			.		.		.
.1T46*TCV022A	RB STANDBY VENT UC 2A		.			*H,M	.*A
	FISHER CONTRL	1E	. G-01		. 310-01		.*180 DYS
	BECK		. RBS	00008.	*FT/IJ		.
	14-101-023645(ES)	310	. 310736		.		.
			.			*L	.*A
			.		.		.*180 DYS
			.		.		.
			.		.		.
.1T46*TCV022B	RB STANDBY VENT UC 2B		.			*H,M	.*A
	FISHER CONTRL	1E	. G-01		. 310-01		.*180 DYS
	BECK		. RBS	00040.	*FT/IJ		.
	14-101-023645(ES)	310	. 310736		.		.
			.			*L	.*A
			.		.		.*180 DYS
			.		.		.
			.		.		.

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.1T46*TCV023A	RB STANDBY VENT UC 3A		.		*H,M	.*A
	FISHER CONTRL	1E	. G-01	. 310-01 .		.*180 DYS
	BECK		. RBS 00008.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV023B	RB STANDBY VENT UC 3B		.		*H,M	.*A
	FISHER CONTRL	1E	. G-02	. 310-01 .		.*180 DYS
	BECK		. RBS 00040.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV024A	RB STANDBY VENT UC-4A		.		*H,M	.*A
	FISHER CONTRL	1E	. H-20	. 310-01 .		.*180 DYS
	BECK		. RBS 175.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV024B	RB STANDBY VENT UC-4B		.		*H,M	.*A
	FISHER CONTRL	1E	. H-20	. 310-01 .		.*180 DYS
	BECK		. RBS 175.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV025A	RB STANDBY VENT UC-5A		.		*H,M	.*A
	FISHER CONTRL	1E	. H-20	. 310-01 .		.*180 DYS
	BECK		. RBS 175.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
.1T46*TCV025B	RB STANDBY VENT UC-5B					*H,M	.*A
	FISHER CONTRL	1E	H-20		310-01		.*180 DYS
	BECK		RBS	175.	*FT/IJ		
	14-101-023645(ES)	310	310736				
.1T46*TCV026A	RB STANDBY VENT UC-6A					*H,M	.*A
	FISHER CONTRL	1E	K-15		310-01		.*180 DYS
	BECK		RBS	00112.	*FT/IJ		
	14-101-023645(ES)	310	310736				
						*L	.*A
							.*180 DYS
.1T46*TCV026B	RB STANDBY VENT UC-6B					*H,M	.*A
	FISHER CONTRL	1E	K-15		310-01		.*180 DYS
	BECK		RBS	00112.	*FT/IJ		
	14-101-023645(ES)	310	310736				
						*L	.*A
							.*180 DYS
.1T46*TCV028A	MCC RM UNIT COOLER					*H,M	.*A
	FISHER CONTRL	1E	N-16		310-01		.*180 DYS
	BECK		RBS	00112.	*FT/IJ		
	14-101-023645(ES)	310	310736				
						*L	.*A
							.*180 DYS
.1T46*TCV028B	MCC RM UNIT COOLER					*H,M	.*A
	FISHER CONTRL	1E	K-15		310-01		.*180 DYS
	BECK		RBS	00112.	*FT/IJ		
	14-101-023645(ES)	310	310736				
						*L	.*A
							.*180 DYS

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

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RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1T46*TCV059A	UC-21A UNIT CLEAR		.		*H,M	.*A
	FISHER CONTRL	1E	. H-18	. 310-01 .		.*180 DYS
	BECK		. RBS 00150.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV059B	UC-21B UNIT CLEAR		.		*H,M	.*A
	FISHER CONT.	1E	. H-18	. 310-01 .		.*180 DYS
	BECK		. RBS 00150.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV060A	UC-22A UNIT CLEAR		.		*H,M	.*A
	FISHER CONT.	1E	. H-18	. 310-01 .		.*180 DYS
	BECK		. RBS 00150.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*TCV060B	UC-22B UNIT CLEAR		.		*H,M	.*A
	FISHER CONT.	1E	. H-18	. 310-01 .		.*180 DYS
	BECK		. RBS 00150.	*FT/IJ .		.
	14-101-023645(ES)	310	. 310736	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
JOB NUMBER 1160002 PROJECT EQUIPMENT SYSTEM - (IS-129) REPORT DATE 05/21/82 PAGE 60
JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
REPORT GROUP MAK	= BINGHAM PUMP					
.1E51*P015	RCIR TURB TU-005 PUMP	.	.		*H,M	.*B
	*GENERAL ELECT	*1E	.*G-01 .	.		.*180 DYS
	*BINGHAM PUMP		. RBS 8.	.		.
		003	.*310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUDMG	OPER CODE
REPORT GROUP MAK = BRAND REX							
1R32*NFP-63	INST CABLE		.			ALL	. A
	BRAND REX	1E	. ALL		. 455-01 .		. 180 DYS
	BRAND REX		. RB		. EQ .		.
	LOW CAP INST CABLE	455	. 310965		. .	SPR	. N/A
	REPRESENTS ALL CABLE PURCHASED UNDER SH1-455						

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REPORT GROUP MAK = CALIF. ALLOY

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
1G33*TE071A	RX HTR CLN UP AMB		P-14	3110		H,M	A
G33-N016A	GENERAL ELEC	1E	P-14	3110			070 MIN
	CALIF. ALLOY		RBS	112. EQ			
	145C3224P2	003	310010				
						L	B
							180 DYS
1G33*TE071B	RX HTR CLN UP AMB					H,M	A
G33-N016B	GENERAL ELEC	1E	P-13	3110			070 MIN
	CALIF. ALLOY		RBS	112. EQ			
	145C3224P2	003	310010				
						L	B
							180 DYS
1G33*TE071C	RX HTR CLN UP AMB					H,M	A
G33-N016C	GENERAL ELEC	1E	K-15	3110			070 MIN
	CALIF. ALLOY		RBS	140. EQ			
	145C3224P2	003	310010				
						L	B
							180 DYS
1G33*TE071D	RX HTR CLN UP AMB					H,M	A
G33-N016D	GENERAL ELEC	1E	H-16	3110			070 MIN
	CALIF. ALLOY		RBS	140. EQ			
	145C3224P2	003	310010				
						L	B
							180 DYS

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1G33*TE071E	RX HTR CLN UP AMB		H-18	3110	H,M	A
G33-N016E	GENERAL ELEC	1E	RBS	173. EQ		070 MIN
	CALIF. ALLOY		310010			
	145C3224P2	003			L	B
						180 DYS
1G33*TE071F	RX HTR CLN UP AMB		H-19	3110	H,M	A
G33-N016F	GENERAL ELEC	1E	RBS	173. EQ		070 MIN
	CALIF. ALLOY		310010			
	145C3224P2	003			L	B
						180 DYS

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
REPORT GROUP MAK	= CALIFORNIA ALLOY					
.1B21*TE43AX	MAIN STM TUNNEL INLET		.		*H,M	.*A
B21-N016A	GENERAL ELEC	1E	. ST	. 3110 .		.*070 MIN
	CALIFORNIA ALLOY		.*TB	00078. EQ .		.
	145C3224P001	003	. 310010	. .		. *ANSI C96.1
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1B21*TE43BX	MAIN STM TUNNEL INLET		.		*H,M	.*A
B21-N016B	GENERAL ELEC	1E	. ST	. 3110 .		.*070 MIN
	CALIFORNIA ALLOY		.*TB	00078. EQ .		.
	145C3224P001	003	. 310010	. .		. *ANSI C96.1
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1B21*TE43CX	MAIN STM TUNNEL INLET		.		*H,M	.*A
B21-N016C	GENERAL ELEC	1E	. ST	. 3110 .		.*070 MIN
	CALIFORNIA ALLOY		.*TB	00078. EQ .		.
	145C3224P001	003	. 310010	. .		. *ANSI C96.1
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1B21*TE43DX	MAIN STM TUNNEL INLET		.		*H,M	.*A
B21-N016D	GENERAL ELEC	1E	. ST	. 3110 .		.*070 MIN
	CALIFORNIA ALLOY		.*TB	00078. EQ .		.
	145C3224P001	003	. 310010	. .		. *ANSI C96.1
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

RESET NO. 004
RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QA / MU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E51*TE052A	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N011A	*GENERAL ELECT	*1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS *00020.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE052B	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N011B	*GENERAL ELECT	*1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS *00020.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE053A	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N022A	*GENERAL ELECT	*1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS *00020.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE053B	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N022B	*GENERAL ELECT	*1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS *00020.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE054A	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N023A	*GENERAL ELECT	*1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS *00020.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.

REPORT NO. PES-001 STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE054B	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N023B	*GENERAL ELECT	1	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS 63.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE055A	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N025A	*GENERAL ELECT	1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS 00017.	*IJ .		.
	*145C3224P1	003	. 370969 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE055B	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N025B	*GENERAL ELECT	1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS 00022.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.
.1E51*TE055C	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N025C	*GENERAL ELECT	1E	.*G-01 .	.		.*070 MIN
	*CALIFORNIA ALLOY		. RBS 00031.	*IJ .		.
	*145C3224P1	003	. 310010 .	.		.
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E51*TE055D	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N025D	*GENERAL ELECT	1E	.*G-01	. .		.*070 MIN
	*CALIFORNIA ALLOY		. RBS 00031.	*IJ .		.
	*145C3224P1	003	. 310010	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1E51*TE056A	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N026A	*GENERAL ELECT	*1E	.*G-05	. .		.*070 MIN
	*CALIFORNIA ALLOY		. *00063.	*IJ .		.
	*145C3224P1	003	. 310010	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1E51*TE056B	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N026B	*GENERAL ELECT	*1E	.*G-05	. .		.*070 MIN
	*CALIFORNIA ALLOY		. *00063.	*IJ .		.
	*145C3224P1	003	. 310010	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1E51*TE056C	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N026C	*GENERAL ELECT	*1E	.*G-05	. .		.*070 MIN
	*CALIFORNIA ALLOY		. *00063.	*IJ .		.
	*145C3224P1	003	. 310010	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1E51*TE056D	RCIC EQUIP AREA AMB		.		*H,M	.*A
E51-N026D	*GENERAL ELECT	*1E	.*G-05	. .		.*070 MIN
	*CALIFORNIA ALLOY		. *00063.	*IJ .		.
	*145C3224P1	003	. 310010	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
**********	**********	**********	**********	**********	**********	**********
					*L	.*B
						.*180 DYS
						.
						.

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUDNG	OPER CODE
**********	**********	**********	**********	**********	**********	****** ********** **********
REPORT GROUP MAK = CENTERLINE						
.1T46*A0D040A	RB REFUEL LEVEL EXHAUST		.		ALL	. A
	POWERS REGUL	1E	. H-18	. 319-01 .		. 070 MIN
	CENTERLINE		. RBS 00150.	EQ .		.
	32046-6	319	. 310738	. .		.
.1T46*A0D040B	RB REFUEL LEVEL EXHAUST		.		ALL	. A
	POWERS REGUL	1E	. H-18	. 319-01 .		. 070 MIN
	CENTERLINE		. RBS 00150.	EQ .		.
	32046-6	319	. 310738	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUDNG	OPER CODE
REPORT GROUP MAK	= CONSIP INC					
.1T48*H2Z115A	DRYWELL HYDROGEN ANALYZER				H,M	.*B
AE/1	DELPHI INDUST	1E	J-15	344-01		.*180 DYS
	*CONSIP INC		RBS 00112.	EQ		
	B	344	310737			
					L	. A
						. 180 DYS
						. 2XFS
.1T48*H2Z115B	DRYWELL HYDROGEN ANALYZER				H,M	.*B
AE/1	DELPHI INDUST	1E	J-16	344-01		.*180 DYS
	*CONSIP INC		RBS 00112.	EQ		
	B	344	310737			
					L	. A
						. 180 DYS
						. 2XFS
.1T48*H2Z116A	SUPP CHBR/RECOM DISCH ANALYZER.				H,M	.*B
AE/1	DELPHI INDUST	1E	J-15	344-01		.*180 DYS
	*CONSIP INC		RBS 00112.	EQ		
	B	344	310737			
					L	. A
						. 180 DYS
						. 2XFS
.1T48*H2Z116B	SUPP CHBR/RECOM DISCH ANALYZER.				H,M	.*B
AE	DELPHI INDUST	1E	J-16	344-01		.*180 DYS
	*CONSIP INC		RBS 00112.	EQ		
	B	344	310737			
					L	. A
						. 180 DYS
						. 2XFS

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT		ENG COND / SUBMG	OPER CODE
.1T48*02Z123A	PRIMARY CONT OXYGEN					H,M	B
	DELPHI INDUST.	1E	J-15	344-01			180 DYS
	CONSIP INC		RBS 00112.	*EQ			
	J	344	310737				
						L	A
							180 DYS
							2XFS
1T48*02Z123B	PRIMARY CONT OXYGEN					H,M	B
	DELPHI INDUST.	1E	J-15	344-01			180 DYS
	CONSIP INC		RBS 00112.	EQ			
	J	344	310737				
						L	A
							180 DYS
							2XFS
1T48*PNL68A	GAS ANALYZER DRYWELL					H,M	B
	DELPHI INDUST.	1E	J-15	344-01			180 DYS
	CONSIP INC	RG	RBS 112.	EQ			
	K-IV	344	310737				
						L	A
							180 DYS
							N/A
	SAMPLE PUMP IS BEING RETESTED.ALL OTHER COMPONENTS ARE EQ.						
1T48*PNL68B	GAS ANALYZER DRYWELL					H,M	B
	DELPHI INDUST.	1E	J-16	344-01			180 DYS
	CONSIP INC	RG	RBS 112.	EQ			
	K-IV	344	310737				
						L	A
							180 DYS
							N/A
	SAMPLE PUMP IS BEING RETESTED.ALL OTHER COMPONENTS ARE EQ.						
.1T48*PNL69A	GAS ANALYZER SUPPR CHAMBER					H,M	B
	DELPHI INDUST.	1E	J-15	344-01			180 DYS
	CONSIP INC	RG	RBS 112.	EQ			
	K-IV	344	310737				

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					L	A
						180 DYS
						N/A
	SAMPLE PUMP IS BEING RETESTED, ALL OTHER COMPONENTS ARE EQ.					
.1T48*PNL69B	GAS ANALYZER SUPPR CHAMBER				H,M	B
	DELPHI INDUST.	1E	J-16	344-01		180 DYS
	CONSIP INC	RG	RBS 112.	EQ		
	K-IV	344	310737			
					L	A
						180 DYS
						N/A
	SAMPLE PUMP IS BEING RETESTED, ALL OTHER COMPONENTS ARE EQ.					

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
REPORT GROUP MAK	= CONAX					
.1T23*Z-EB1	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	456-02		180 DYS
	CONAX	1	RBP 00078.	*FT		
	LOW VOLT POWER CONT	456	310578			
					L	A
						180 DYS
					MST	N/A
	GE HEADER PLATES WITH CONAX FEEDTHROUGH MODULES. VENDOR TO SUBMIT FURTHER DOCUMENTATION					
1T23-Z-MC1	REACTOR CONT ELEC PENET				H,M	A
	CONAX	1E	H-10	456-01		180 DYS
	CONAX	1	RBP 00078.	EQ		
	LOW VOLT POWER CONT	456	310967			
					L	A
						180 DYS
					MST	N/A
.1T23*Z-MB3	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	456-02		180 DYS
	CONAX	1	RBP 00078.	*EQ		
	LOW VOLT POWER CONT.	456	310578			
					L	A
						180 DYS
					MST	N/A
	GE HEADER PLATES WITH CONAX FEEDTHROUGH MODULES. VENDOR TO SUBMIT FURTHER DOCUMENTATION					
1C41*EV010A	EXPLOSIVE VALVE				H,M	B
C41-F009A	GENERAL ELEC	1E	J-15	3146		180 DYS
	CONAX		RDS 00120.	DR/IJ		
	1832-159-01	003	344953			
					L	B
						180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1C41*EV010B	EXPLOSIVE VALVE					H,M	B
C41-F004B	GENERAL ELEC	1E	J-15	3146			180 DYS
	CONAX		RBS	00120. DR/IJ			
	1832-159-01	003	344953				
						L	B
							180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
REPORT GROUP MAK = COPES						
.1E41*LCV091	HPCI STM DRN POT DRN		.		H,M	. B
E41-F054	G.E.	1E	. G-01 .	.		. 180 DYS
	COPES		. RBS 00008.*DR	.		.
	D-100-60	003	. 310735 .	.		.
			.		L	. B
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.

MECH. ITEM ONLY BUT HAS SOV AND PNS W/O SEPARATE MARK NOS.

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REPORT GROUP MAK = DELPHI

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.1T48*02Z124A	PRIMARY CONT OXYGEN		.		H,H	. B
	DELPHI INDUST	1E	.*J-15	.*344-01 .		. 180 DYS
	DELPHI		. RBS 00112	.*EQ .		.
	B5-3	344	. 310737	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1T48*02Z124B	PRIMARY CONT OXYGEN		.		H,H	. B
	DELPHI INDUST	1E	.*J-16	.*344-01 .		. 180 DYS
	DELPHI		. RBS 00112	.*EQ .		.
	B5-3	344	. 310737	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.

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REPORT GROUP MAK	= DWYER						
.1D11-FI041	STATION VENT EXHAUST					H,M	. A
	N.M.C.	2E	. H-20	.	.		. 180 DYS
	*DWYER	*	. RBS 00175.	ND	.		.
	*SERIES 3000	332	. 310782	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	CAT. II EQUIPMENT NOT 1E POWERED						
.1D11-FS041	STATION VENT EXHAUST		.			H,M	. A
	N.M.C.	2E	. H-20	.	.		. 180 DYS
	*DWYER	*	. RBS 00175.	ND	.		.
	*SERIES 3000	332	. 310782	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	CAT. II EQUIPMENT NOT 1E POWERED						
.1T46*PDS045A	FN-3B DIFF PRESSURE		.			*H,M	.*A
	*POWERS REGUL	1E	. K-15	. 319-01	.		.*180 DYS
	DWYER		. RBS 00112.	*FT/IJ	.		.
	1627	319	. 310738	.	.		.
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1T46*PDS045B	FN-3A DIFF PRESSURE		.			*H,M	.*A
	*POWERS REGUL	1E	. K-15	. 319-01	.		.*180 DYS
	DWYER		. RBS 00112.	*FT/IJ	.		.
	1627	319	. 310738	.	.		.
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.

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.1T46*PDS045C	FN-3A DIFF PRESSURE		K-15	319-01		*H,M	.*A
	*COPES VULCAN	1E	RBS	00112.*FT/IJ			.*180 DYS
	DWYER		310738				
	1627	319					
						*L	.*A
							.*180 DYS
.1T46*PDS046A	FN-3C DIFF PRESSURE		K-15	319-01		*H,M	.*A
	*COPES VULCAN	1E	RBS	00112.*FT/IJ			.*180 DYS
	DWYER		310738				
	1627	319					
						*L	.*A
							.*180 DYS
.1T46*PDS046B	FN-3C DIFF PRESSURE		K-15	319-01		*H,M	.*A
	*POWERS REGUL	1E	RBS	00112.*FT/IJ			.*180 DYS
	DWYER		310738				
	1627	319					
						*L	.*A
							.*180 DYS
.1T46*PDS046C	FN-3B DIFF PRESSURE		K-15	319-01		*H,M	.*A
	*POWERS REGUL	1E	RBS	00112.*FT/IJ			.*180 DYS
	DWYER		310738				
	1627	319					
						*L	.*A
							.*180 DYS

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REPORT GROUP MAK = FARR

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
.1T46*FLT01A	FILTER TRAIN REHEAT COIL RBSVS.					*H,M	.*A
	FARR CO	1E	K-15	.*			.*180 DYS
	FARR		RBS	112.	IJ		
	N-240	105	310599				
						*L	.*A
							.*180 DYS
.1T46*FLT01B	FILTER TRAIN REHEAT COIL RBSVS.					*H,M	.*A
	FARR CO	1E	K-15	.*			.*180 DYS
	FARR		RBS	112.	IJ		
	N-240	105	310599				
						*L	.*A
							.*180 DYS

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REPORT GROUP MAK = FISHER GOVERNOR

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMS	OPER CODE
1E11*E/P007A	STM TO RHR HX SHELL		G-01	3122	H,M	B
E11-K001A	GENERAL ELEC	1E	RBS	8. DR/IJ		180 DYS
	FISHER GOVERNOR		310010			
	546	003				
					L	B
						180 DYS
1E11*E/P007B	RHR HX SHELL TO RCIC		G-01	3122	H,M	B
E11-K001B	GENERAL ELEC	1E	RBS	8. DR/IJ		180 DYS
	FISHER GOVERNOR		310010			
	546	003				
					L	B
						180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
**********	**********	**********	**********	**********	**********	**********	**********
REPORT GROUP MAK	= GENS						
.1G11*LE642C	REACT BLDG FLOOR DRN SUMP 056C.					H,M	B
	DELEVAL	1E	G-01				180 DYS
	GENS		RBS	00008.	*TA/IJ		
	XM-54854	473	10091				2%
						L	*B
							*180 DYS
							2%
	OP CODE B FOR HELB & MELB						
.1G11*LE645A	REACT BLD FLOOD LEVEL					H,M	A
	DELEVAL	1E	G-01				180 DYS
	GENS	RG	RBS	00008.	*TA/IJ		
	XM-54854	473	10091				2%
						L	A
							180 DYS
							2%
.1G11*LE645B	REACT BLD FLOOD LEVEL					H,M	A
	DELEVAL	1E	G-01				180 DYS
	GENS	RG	RBS	00008.	*TA/IJ		
	XM-54854	473	10091				2%
						L	A
							180 DYS
							2%

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REPORT GROUP MAK = GENERAL ELECT

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.1H21*PNL61	ELEC ANAL INST RACK				H,M	A
	*GENERAL ELECT	1E				180 DYS
	*GENERAL ELECT	003	RBS 310010	112.DR		
					L	A
						180 DYS
.1C11-P017A	CONT ROD DR PUMP				H,M	B
	GE-UNION PUMP	2E	L-02			180 DYS
	*GENERAL ELECT	* 003	RBS 310010	40.*DR		
					L	B
						180 DYS
.1C11-P017B	CONT ROD DR PUMP				H,M	B
	GE-UNION PUMP	2E	L-02			180 DYS
	*GENERAL ELECT	* 003	RBS 310010	40.*DR		
					L	B
						180 DYS
.1H21*PNL23	RICU SAMPLE RK				H,M	A
	*GENERAL ELECT	1				180 DYS
	*GENERAL ELECT	003	RBS 310010	150. OI		
					L	A
						180 DYS

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.1H21*PNL25	MAIN STEAM FLOW RK B		.			H,M	. A
H21-P025	*GENERAL ELECT	1E	.*L-02		. 3912 .		. 180 DYS
	*GENERAL ELECT		. RBS	40.	DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.		. .		. 180 DYS
			.		. .		.
			.		. .		.
.1H21*PNL26	RV LEVEL & PRESS INST		.			H,M	. A
H21-P026	*GENERAL ELECT	1E	. H-12		. 3912 .		. 180 DYS
	*GENERAL ELECT		. RBS	78.	DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.		. .		. 180 DYS
			.		. .		.
			.		. .		.
.1H21*PNL30	SRM IRM PREAMP RK RPS CH-A1		.			H,M	. A
	*GENERAL ELECT	1	. G-10		. .		. 180 DYS
	*GENERAL ELECT		. RBS	78.	*DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.		. .		. 180 DYS
			.		. .		.
			.		. .		.
.1H21*PNL31	SRM IRM PREAMP RK RPS CH-B1		.			H,M	. A
	*GENERAL ELECT	1	. G-10		. .		. 180 DYS
	*GENERAL ELECT		. RBS	78.	*DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.		. .		. 180 DYS
			.		. .		.
			.		. .		.
.1H21*PNL32	SRM IRM PREAMP RK RPS CH-A2		.			H,M	. A
	*GENERAL ELECT	1	.		. .		. 180 DYS
	*GENERAL ELECT		. RBS	78.	*DR/IJ .		.
		003	. 310010		. .		.

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
						L	A
							180 DYS
.1H21*PNL33	SRM IRM PREAMP RK RPS CH-B2					H,M	A
	*GENERAL ELECT	1					180 DYS
	*GENERAL ELECT	003	RBS 310010	78.	*DR/IJ		
						L	A
							180 DYS
.1H21*PNL34	HPCI LEAK DET RK A					H,M	A
	*GENERAL ELECT	1	G-10				180 DYS
	*GENERAL ELECT	003	RBS 310010	8.	*DR/IJ		
						L	A
							180 DYS
.1H21*PNL35	CS/RCIC LEAK DET RK B					H,M	A
H21-P035	*GENERAL ELECT	1E	L-02 3912				180 DYS
	*GENERAL ELECT	003	RBS 310010	40.	DR/IJ		
						L	A
							180 DYS
.1H21*PNL36	HPCI LEAK DET RK B					H,M	A
H21-P036	*GENERAL ELECT	1E	G-01 3912				180 DYS
	*GENERAL ELECT	003	RBS 310010	8.	DR/IJ		
						L	A
							180 DYS

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.1H21*PNL37	RCIC LEAK DET RK A		.		H,M	. A
H21-P037	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	*GENERAL ELECT		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL38	RCIC LEAK DET RK B		.		H,M	. A
H21-P038	*GENERAL ELECT	1E	. L-02	. 3912 .		. 180 DYS
	*GENERAL ELECT		. RBS	40. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL41	MAIN STM FLOW SYS C		.		H,M	. A
H21-P041	*GENERAL ELECT	1E	.*L-02	. 3912 .		. 180 DYS
	*GENERAL ELECT		. RBS	40. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1D11*RE017A	REAC BLDG REFUEL LVL VENT EXH		.		H,M	. B
D11-N010A	GENERAL ELEC	1E	. H-20	. .		. 180 DYS
	*GENERAL ELECT		. RBS	*00150.*DR/IJ .		.
	*19[illegible]C011	003	. 310010	. .		.
			.		L	. A
			.	. .		. 070 MIN
			.	. .		.
			.	. .		.
.1D11*RE017B	REAC BLDG REFUEL LVL VENT EXH		.		H,M	. B
D11-N010B	GENERAL ELEC	1E	. H-20	. .		. 180 DYS
	*GENERAL ELECT		. RBS	*00150.*DR/IJ .		.
	*19[illegible]C011	003	. 310010	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
		.			L	. A
		.	. .			. 070 MIN
		.	. .			.
		.	. .			.

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK = GENERAL ELECTRIC							
1H21*PNL01 H21-P001	CORE SPRAY RACK CH 4 GENERAL ELEC GENERAL ELECTRIC	1E 003	G-01 RBS 310010	3912 8.	DR/IJ	H,M	A 180 DYS
	EQUIPMENT LOCATED IN A NON HARSH ENVIRONMENT						
.1H21*PNL02 H21-P002	RHCU SYSTEM INST RACK *GENERAL ELECT GENERAL ELECTRIC	1E 003	H-16 RBS 310010	3912 112.	DR/IJ	H,M	A 180 DYS
						L	A 180 DYS
	EQUIPMENT LOCATED IN A NON HARSH ENVIRONMENT						
.1H21*PNL04 H21-P004	RX VES L&P RACK A *GENERAL ELECT GENERAL ELECTRIC	1E 003	G-10 RBS 310010	3912 78.	DR/IJ	H,M	A 180 DYS
						L	A 180 DYS
.1H21*PNL05 H21-P005	RX VES L&D RACK B *GENERAL ELECT GENERAL ELECTRIC	1E 003	G-12 RBS 310010	3912 78.	DR/IJ	H,M	A 180 DYS
						L	A 180 DYS
.1H21*PNL06 H21-P006	RECIRC PUMP A RACK *GENERAL ELECT GENERAL ELECTRIC	1E 003	*L-02 RBS 310010	3912 40.	DR/IJ	H,M	A 180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
.1H21*PNL09	JET PUMP INST RACK A		.			H,M	. A
H21-P009	*GENERAL ELECT	1E	. G-09	. 3912	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	79. DR/IJ	.		.
		003	. 310010	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
.1H21*PNL10	JET PUMP INST RACK B		.			H,M	. A
H21-P010	*GENERAL ELECT	1E	. G-11	. 3912	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	79. DR/IJ	.		.
		003	. 310010	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
.1H21*PNL14	HPCI INST RACK		.			H,M	. A
H21-P014	*GENERAL ELECT	1E	. G-01	. 3912	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ	.		.
		003	. 310010	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
.1H21*PNL15	MAIN STEAM FLOW RACK A		.			H,M	. A
H21-P015	*GENERAL ELECT	1E	.*L-02	. 3912	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	40. DR/IJ	.		.
		003	. 310010	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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.1H21*PNL16	CS/NPCI LEAK DET I RK		.		H,M	. A
H21-P016	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL17	RCIC INST RACK		.		H,M	. A
H21-P017	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL18	RHR INST RK CH A		.		H,M	. A
H21-P018	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL19	CORE SPRAY RK CH B		.		H,M	. A
H21-P019	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1H21*PNL21	RHR INST RK CH B		.		H,M	. A
H21-P021	*GENERAL ELECT	1E	. G-01	. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	8. DR/IJ .		.
		003	. 310010	. .		.

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			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1H21*PNL22	RECIRC PUMP B RACK		.			H,M	. A
H21-P022	*GENERAL ELECT	1E	. L-02		. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	40.	DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
1H21*PNL73	MSIV LEAKAGE INST RACK		.			H,M	. A
H21-P073	GENERAL ELEC	1E	. G-05		. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	63.	DR/IJ .		.
		003	.		. .		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
1H21*PNL74	MSIV LEAKAGE INST RACK		.			H,M	. A
H21-P074	GENERAL ELEC	1E	. G-05		. 3912 .		. 180 DYS
	GENERAL ELECTRIC		. RBS	63.	DR/IJ .		.
		003	. 310010		. .		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
1E41*P127	HPCI TURB HYD & GER OIL AUX PP.					H,M	. A
E-036	GE-TERRY TURB	1E	. G-01		.		. 012 HRS
	GENERAL ELECTRIC		. RBS	8.	TA/IJ .		.
	CO 2B7A7	003	. 310010		. .		.
			.			L	. A
			.	.	.		. 012 HRS
			.	.	.		.
			.	.	.		.

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1R42*MCC0A1	125VDC MOTOR CONT CENTER		.			L	. A
	GEN ELEC	1E	. L-02	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	40.	IJ .		.
	DC MTR CONT CENTER	168	. 310562	.	.		.
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
1R42*MCC0A2	125VDC MOTOR CONT CENTER		.			ALL	. A
	GEN ELEC	1E	. N-21	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	112.	IJ .		.
	DC MTR CONT CENTER	168	. 310562	.	.		.
1R42*MCC0B1	125VDC MOTOR CONT CENTER		.			ALL	. A
	GEN ELEC	1E	. N-21	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	40.	IJ .		.
	DC MTR CONT CENTER	168	. 310562	.	.		.
1R42*MCC0B2	125VDC MOTOR CONT CENTER		.			ALL	. A
	GEN ELEC	1E	. N-21	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	112.	IJ .		.
	DC MTR CONT CENTER	168	. 310562	.	.		.
.1E51*P076	RCIRC CONDENSER VAC PP		.			*H,M	.*B
	GE-TERRY TURB	1E	. G-01	.	.		.*180 DYS
	GENERAL ELECTRIC		. RBS	8.	IJ .		.
	*L106AY	003	. 310010	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1B31*BKR01A	REAC RECIRC PP TRIP BKR (RED)		.			H,M	. B
	GENERAL ELEC	1E	. L-02	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	00040.	DR/IJ .		.
	NO6	039	. 310057	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1B31*BKR01B	REAC RECIRC PP TRIP BKR (RED)		.			H,M	. B
	GENERAL ELEC	1E	. L-02	.	.		. 180 DYS
	GENERAL ELECTRIC		. RBS	00040.	DR/IJ .		.
	NO6	039	. 310057	.	.		.

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						L	B
							180 DYS
.1B31*BKR02A	REAC RECIRC PP TRIP BKR (BLUE).					H,M	B
	GENERAL ELEC	1E	L-02				180 DYS
	GENERAL ELECTRIC		RBS	00040.	DR/IJ		
	M26	039	310057				
						L	B
							180 DYS
.1B31*BKR03B	REAC RECIRC PP TRIP BKR (BLUE).					H,M	B
	GENERAL ELEC	1E	L-02				180 DYS
	GENERAL ELECTRIC		RBS	00040.	DR/IJ		
	M26	039	310057				
						L	B
							180 DYS
.1T23-Z-EA2	REACTOR CONT ELEC PENET					H,M	A
	GEN ELEC CO	1E	D-22		134-02		180 DYS
	GENERAL ELECTRIC		RBP	00078.*EQ			
	SERIES 100 MED VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UP-22-F						
.1T23-Z-HA2	REACTOR CONT ELEC PENET					H,M	A
	GEN ELEC CO	1E	H-10		134-02		180 DYS
	GENERAL ELECTRIC		RBP	00078.*EQ			
	SERIES 100 MED VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UP-22-F						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / FG NUMBER	ELEV	EQ SHEET / QUAL STAT	ENV COND / SUBMG	OPER CODE
.1T23-Z-NA3	REACTOR CONT ELEC PENET GEN ELEC CO GENERAL ELECTRIC SERIES 100 MED VOLT	1E 134	H-10 RBP 310578	134-02 00078.*EQ		H,M	A 180 DYS
						L	A 180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23-Z-EA3	REACTOR CONT ELEC PENET GEN ELEC CO GENERAL ELECTRIC SERIES 200 LOW VOLT	1E 134	D-22 RBP 310578	134-01 00078.*EQ		H,M	A 180 DYS
						L	A 180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23-Z-EB3	REACTOR CONT ELEC PENET GEN ELEC CO GENERAL ELECTRIC SERIES 200 LOW VOLT	1E 134	H-11 RBP 310578	134-01 00078.*EQ		L MST	A 180 DYS N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23-Z-EB5	REACTOR CONT ELEC PENET GEN ELEC CO GENERAL ELECTRIC SERIES 200 LOW VOLT	1E 134	D-22 RBP 310578	134-01 00078.*EQ		H,M	A 180 DYS
						L	A 180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23-Z-EB6	REACTOR CONT ELEC PENET GEN ELEC CO GENERAL ELECTRIC SERIES 200 LOW VOLT	1E 134	D-22 RBP 310578	134-01 00078.*EQ		H,M	A 180 DYS

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					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-EC5	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RDP 00078.*EQ			
	SERIES 200 LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-EC6	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RDP 00078.*EQ			
	SERIES 200 LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MB1	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	G-10	134-01		180 DYS
	GENERAL ELECTRIC		RDP 00078.*EQ			
	SERIES 200 LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MB2	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	H-10	134-01		180 DYS
	GENERAL ELECTRIC		RDP 00078.*EQ			
	SERIES 200 LOW VOLT	134	310578			

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MB5	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	H-10	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200 LON VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MB6	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	H-10	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200 LON VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MC5	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	H-10	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200 LON VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23-Z-MC6	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	H-10	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200 LON VOLT	134	310578			

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG ELEV PO NUMBER	EQ SHEET QUAL STAT	EMG COND SUBMG	OPER CODE
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23*Z-EA1	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200, LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23*Z-EB2	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200, LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23*Z-ED5	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200, LOW VOLT	134	310578			
					L	A
						180 DYS
					MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F					
.1T23*Z-ED6	REACTOR CONT ELEC PENET				H,M	A
	GEN ELEC CO	1E	D-22	134-01		180 DYS
	GENERAL ELECTRIC		RBP 00078.*EQ			
	SERIES 200, LOW VOLT	134	310578			

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RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG PO NUMBER	ELEV	EQ SHEET QUAL STAT	EMG COND / SUBMG	OPER CODE
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23*Z-MD4	REACTOR CONT ELEC PENET					H,M	A
	GEN ELEC CO	1E	D-22	134-01			180 DYS
	GENERAL ELECTRIC		RBP	00078.*EQ			
	SERIES 200, LON VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23*Z-MD1	REACTOR CONT ELEC PENET					H,M	A
	GEN ELEC CO	1E	D-22	134-01			180 DYS
	GENERAL ELECTRIC		RBP	00078.*EQ			
	SERIES 200, LON VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1T23*Z-MD2	REACTOR CONT ELEC PENET					H,M	A
	GEN ELEC CO	1E	D-22	134-01			180 DYS
	GENERAL ELECTRIC		RBP	00078.*EQ			
	SERIES 200, LON VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
.1E32*CLO013	OUTBD MSIV BLOWER					H,M	B
	GE	1E	G-06	3903			180 DYS
	GENERAL ELECTRIC		RBS	76.*IJ			
	2CN6 041-1U	003	310010				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
						L	A
							100 DYS
							N/A
.1E32*BL0014A	OUTBD MSIV BLOWER					H,H	B
	GENERAL ELEC	1E	*G-05		3903		180 DYS
	GENERAL ELECTRIC		RBS	00063.	IJ		
	2CH6 041-1U	003	310010				
						L	A
							100 DYS
							N/A
.1E32*BL0014B	OUTBD MSIV BLOWER					H,H	B
	GENERAL ELEC	1E	*G-05		3903		180 DYS
	GENERAL ELECTRIC		RBS	00063.	IJ		
	2CH6 041-1U	003	310010				
						L	A
							100 DYS
							N/A
.1T23*Z-WC4	REACTOR CONT ELEC PENET					H,H	A
	GEN. ELECT. CO.	1E	D-22		134-01		180 DYS
	GENERAL ELECTRIC		RBP	00078.	*EQ		
	200 SERIES LOW VOLT	134	310578				
						L	A
							180 DYS
						MST	N/A
	REQUIRED RADIATION DOSE REDUCED TO 1.0E8 BY CALCULATION SNPS-1-UR-22-F						
1D11*RE011A	RADIATION MONITORING DETECTOR					H,H	B
D11-N006A	GENERAL ELEC	1E	ST		3914		180 DYS
	GENERAL ELECTRIC		ST	63.	DR/IJ		
	237X731G001	003	310010				
						L	A
							070 MIN

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JOB CLIENT LILCO

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1D11*RE011B	RADIATION MONITORING DETECTOR				H,M	B
D11-N006B	GENERAL ELEC	1E	ST	3914		180 DYS
	GENERAL ELECTRIC		ST	63. DR/IJ		
	237X731G001	003	310010			
					L	A
						070 MIN
1D11*RE011C	RADIATION MONITORING DETECTOR				H,M	B
D11-N006C	GENERAL ELEC	1E	ST	3914		180 DYS
	GENERAL ELECTRIC		ST	63. DR/IJ		
	237X731G001	003	310010			
					L	A
						070 MIN
1D11*RE011D	RADIATION MONITORING DETECTOR				H,M	B
D11-N006D	GENERAL ELEC	1E	ST	3914		180 DYS
	GENERAL ELECTRIC		ST	63. DR/IJ		
	237X731G001	003	310010			
					L	A
						070 MIN
.1P41*HS102A	SAMPLE TO RAD MONITOR				*H,M	.*B
	POWERS REGUL	*1E	1			.*180 DYS
	GENERAL ELECTRIC		RBS	00030.*FT/IJ		
	2940	319	310738			
					*L	.*B
						.*180 DYS
.1P41*HS102B	SAMPLE TO RAD MONITOR				*H,M	.*A
	POWERS REGUL	*1E	1			.*180 DYS
	GENERAL ELECTRIC		RBS	00030.*FT/IJ		
	2940	319	310738			

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						*L	.*B
							.*180 DYS
.1E51*P077	RCIC COND PMP					*H,M	.*B
	GE-TERRY TURB	1E	G-01				.*180 DYS
	GENERAL ELECTRIC		RBS	8.	IJ		
	3HP,1900RPM,120VDC	003	310010				
						*L	.*B
							.*180 DYS
.1E32*HC053A	LCS INBOARD HEATER					H,M	. B
B-001B	GE	1E	G-07		3902		. 180 DYS
	GENERAL ELECTRIC		RBS	00063.	EQ		
	47D518673	003	310010				
						L	. A
							. 100 DYS
							. N/A
.1E32*HC053B	LCS INBOARD HEATER					H,M	. B
B-001P	GE	1E	G-07		3902		. 180 DYS
	GENERAL ELECTRIC		RBS	00063.	EQ		
	47D518673	003	310010				
						L	. A
							. 100 DYS
							. N/A
.1E32*HC053C	LCS INBOARD HEATER					H,M	. B
B-001K	GE	1E	G-07		3902		. 180 DYS
	GENERAL ELECTRIC		RBS	00063.	EQ		
	47D518673	003	310010				
						L	. A
							. 100 DYS
							. N/A

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG PO NUMBER	ELEV	EQ SHEET QUAL STAT		ENG COND SUBMG	OPER CODE
.1E32*HC053D	LCS INBOARD HEATER		.				H,M	. B
	GE	1E	. G-07		. 3902	.		. 180 DYS
	GENERAL ELECTRIC		. RDS	00063.	EQ	.		.
	47D510673	003	. 310010		.	.		.
			.				L	. A
			.		.	.		. 100 DYS
			.		.	.		.
			.		.	.		. N/A
.1E41*P075	HPCI COND PP NEAR COLUMN	C-9	.				H,M	. A
E-036	GE-TERRY TURB	1E	. G-01		.	.		. 012 HRS
	GENERAL ELECTRIC		. RDS	8.	TA/IJ	.		.
	*5CD14C02A9401	003	. 310010		.	.		.
			.				L	. A
			.		.	.		. 012 HRS
			.		.	.		.
			.		.	.		.
.1E41*P074	HPCI VACUUM PUMP NEAR COL	C-9	.				H,M	. A
E-036	GE-TERRY TURB	1E	. G-01		.	.		. 012 HRS
	GENERAL ELECTRIC		. RDS	8.	TA/IJ	.		.
	*5CD14D03A900007	003	. 310010		.	.		.
			.				L	. A
			.		.	.		. 012 HRS
			.		.	.		.
			.		.	.		.
1C41*P029A	STANDBY LIQ CONTROL PP		.				H,M	. B
	GE-UNION PUMP	1E	. J-15		. 3900	.		. 180 DYS
	GENERAL ELECTRIC		. RDS	112.	DR/IJ	.		.
	5K324AK2004	003	. 310010		.	.		.
			.				L	. B
			.		.	.		. 180 DYS
			.		.	.		.
			.		.	.		.
1C41*P029B	STANDBY LIQ CONTROL PP		.				H,M	. B
	GE-UNION PUMP	1E	. J-15		. 3900	.		. 180 DYS
	GENERAL ELECTRIC		. RDS	112.	DR/IJ	.		.
	5K324AK2004	003	. 310010		.	.		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
						L	B
							180 DYS
.1E11*P014A	RHR PUMP NEAR COLUMN C-11					H,M	A
	GE-BYRON JACKSON	1E	G-01	3111			180 DYS
	GENERAL ELECTRIC		RBS	8. EQ			
	*5N6339XC157A	003	310010				
						L	A
							180 DYS
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1						
.1E11*P014B	RHR PUMP NEAR COLUMN					H,M	A
	GE-BYRON JACKSON	1E	G-01	3111			180 DYS
	GENERAL ELECTRIC		RBS	8. EQ			
	*5N6339XC157A	003	310010				
						L	A
							180 DYS
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1						
.1E11*P014C	RHR PUMP NEAR COLUMN C-11					H,M	A
	GE-BYRON JACKSON	1E	G-01	3111			180 DYS
	GENERAL ELECTRIC		RBS	8. EQ			
	*5N6339XC157A	003	310010				
						L	A
							180 DYS
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1						
.1E11*P014D	RHR PUMP NEAR COLUMN C-5					H,M	A
	GE-BYRON JACKSON	1E	G-01	3111			180 DYS
	GENERAL ELECTRIC		RBS	8. EQ			
	*5N6339XC157A	003	310010				

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			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1					
1E21*P013A	CORE SPRAY PP NEAR COLUMN C-11.				H,M	. B
	GE-BYRON JACK	1E	. G-01 . 3111 .			. 180 DYS
	GENERAL ELECTRIC		. RBS 8. EQ .			.
	5N6339XC94A	003	. 310010 . .			.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. N/A
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1					
1E21*P013B	CORE SPRAY PP NEAR COLUMN C-5 .				H,M	. B
	GE-BYRON JACK	1E	. G-01 . 3111 .			. 180 DYS
	GENERAL ELECTRIC		. RBS 8. EQ .			.
	5N6339XC94A	003	. 310010 . .			.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. N/A
	SIX MONTH ACCIDENT DOSE REDUCED TO 4.5E6 BY CALCULATION SNPS-1-UR-ZZ-L1					

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REPORT GROUP MAK = GOULD

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.1R24*PNL111	M-G SET CONTROL CABINET 111 LOUIS ALLIS GOULD 5600 SERIES	1E 439	N-21 RBS 310950	00150.	439-02 *FT/IJ	ALL	A 180 DYS N/A
.1R24*PNL112	M-G SET CONTROL CABINET 112 LOUIS ALLIS GOULD 5600 SERIES	1E 439	N-21 RBS 310950	00150.	439-02 *FT/IJ	ALL	A 180 DYS N/A
.1R24*PNL113A	M-G SET CONTROL CABINET 113A LOUIS ALLIS GOULD 5600 SERIES	1E 439	N-21 RBS 310950	00150.	439-02 *FT/IJ	ALL	A 180 DYS N/A
.1R24*PNL113B	M-G SET CONTROL CABINET 113B LOUIS ALLIS GOULD 5600 SERIES	1E 439	N-21 RBS 310950	00150.	439-02 *FT/IJ	ALL	A 180 DYS N/A

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
REPORT GROUP MAK = ITT						
.1T46*MOD034A	RBSVS FILTER TRAIN DISCH				*H,M	.*A
	*POWERS REGUL	1E	H-20	319-02		.*180 DYS
	ITT		RBS 102.	IJ		
	NM91	319	310738			
					*L	.*A
						.*180 DYS
.1T46*MOD034B	RBSVS FILTER TRAIN DISCH				*H,M	.*A
	*POWERS REGUL	1E	H-20	319-02		.*180 DYS
	ITT		RBS 102.	IJ		
	NM91	319	310738			
					*L	.*A
						.*180 DYS

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REPORT GROUP MAK = KAMEN						
.1D21-PNL085A	CONTAIN.HIGH RANGE AREA MON.	.	.		ALL	. A
	*KAMEN SCI CORP	2E	. H-09 .	.		. 180 DYS
	*KAMEN	*	. RBS 00078. TA	.		.
	*KNL	475	. 310985 .	.		.
.1D21-PNL085B	CONTAIN.HIGH RANGE AREA MON.	.	.		ALL	. A
	*KAMEN SCI CORP	2E	. H-09 .	.		. 180 DYS
	*KAMEN	*	. RBS 00078. TA	.		.
	*KNL	475	. 310985 .	.		.
.1D21*RE085A	CONTAIN. HIGH RANGE RAD.DET.	.	.		H,M	. A
	*KAMEN SCI CORP	1E	. D-22 .	.		. 180 DYS
	*KAMEN	*RG	. RBD *00024. TA	.		.
	*KMA-HR	475	. 310985 .	.		.
			.		L	. A
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.
.1D21*RE085B	CONTAIN. HIGH RANGE RAD.DET.	.	.		H,M	. A
	*KAMEN SCI CORP	1E	. D-22 .	.		. 180 DYS
	*KAMEN	*RG	. RBD *00025. TA	.		.
	*KMA-HR	475	. 310985 .	.		.
			.		L	. A
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.

REPORT NO. PES-001 STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK	= KERITE CO					
.1R31*NFN03	PWR CABLES		.		ALL	. A
	KERITE CO	1E	. ALL	. 127-01 .		. 180 DYS
	KERITE CO		. RB ******.	EQ .		.
	5 KV POWER CABLE	127	. 310561	.	SPR	. NA
	REPRESENTS ALL CABLE PURCHASED UNDER SH1-127					

REPORT NO. PES-601 STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK = LIMITORQUE

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1P41*MOV129A	DRYWELL BSTR HX DISCH VV					*H,M	.*B
	CONTROMATICS	1E	G-01		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	00008.	EQ		
	HIEC-SMB-000-02	281	310546				
						*L	.*A
							.*070 MIN
	MOT:RELIANCE /INS CL:B /460VAC						
.1P41*MOV129B	DRYWELL BSTR HX DISCH VV					*H,M	.*B
	CONTROMATICS	1E	G-01		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	00008.	EQ		
	HIEC-SMB-000-02	281	310744				
						*L	.*A
							.*070 MIN
	MOT:RELIANCE /INS CL:B /460VAC						
.1P41*MOV042A	ENER SW TO FUEL POOL					*H,M	.*B
03160004	HENRY PRATT	1E	G-01		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	31.	EQ		
	H0DC-SMB-00-02	197	310546				
						L	.*A
							.*180 DYS
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P41*MOV043B	ENER SW TO FUEL POOL					*H,M	.*B
03160004	HENRY PRATT	1E	G-01		.*		.*180 DYS
	LIMITORQUE		RBS	31.	*DR/IJ		
	H0DC-SMB-00-02	197	310546				
						L	.*A
							.*180 DYS
							N/A
	MOT:RELIANCE /INS CL: /460VAC						

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1P41*MOV033A	TO RHR SYSTEM		.		*H,M	.*B
02940003	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	28. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV033B	TO RHR SYSTEM		.		*H,M	.*B
02960003	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	28. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV034A	RHR HX E-34A DISCH		.		*H,M	.*A
E11-F002A	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	32. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV034B	RHR HX E-34B DISCH		.		*H,M	.*A
E11-F002B	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	27. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MOT:RELIANCE /INS CL:B /460VAC					

REPORT NO. PES-001 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
.1P41*MOV037A	RBCLCW HX DISCH		.		*H,M	.*A
	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	23. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV037B	RBCLCW HX DISCH		.		*H,M	.*A
	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	23. EQ .		.
	H1BC-SMB-000-02	197	. 310546	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV033C	TO RHR SYSTEM		.		*H,M	.*B
02900004	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	32. EQ .		.
	H2BC-SMB-000-05	197	. 310546	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV033D	TO RHR SYSTEM		.		*H,M	.*B
03000004	HENRY PRATT	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	32. EQ .		.
	H2BC-SMB-000-05	197	. 310546	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		. N/A
	MOT:RELIANCE /INS CL:B /460VAC					

REPORT NO. PES-601 STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
.1E11*MOV037A	RHR OUTBOARD VV NR COLUMN	C-5				H,M	A
E11-F015A	ANCHOR DARLIN	1E	G-03	.*			180 DYS
	LIMITORQUE		RBS	72.	FT/IJ		
	SB-4-200	88AD	310501				
						L	A
							180 DYS
	MOT:ELECT APP /INS CL:B /460VAC						
.1E11*MOV037B	RHR OUTBOARD VV NR COLUMN	C-5				H,M	A
E11-F015B	ANCHOR DARLIN	1E	G-03	.*			180 DYS
	LIMITORQUE		RBS	72.	FT/IJ		
	SB-4-200	88AD	310501				
						L	A
							180 DYS
	MOT:ELECT APP /INS CL:B /460VAC						
.1E51*MOV044	TURBINE STOP VALVE					*H,M	.*B
	GENERAL ELEC	1E	G-01				.*180 DYS
	LIMITORQUE		RBS	12.	*FT/IJ		
	SMB-0	003	310010				
						*L	.*B
							.*180 DYS
	MOT:RELIANCE/INS CL:B /125VDC						
1E41*MOV044	TURB EXH TO SUPP POOL	C-8				H,M	A
E41-F021	VELAN	1E	G-01				012 HRS
	LIMITORQUE		RBS	30.	FT/IJ		
	SMB-0-15	89V	310502				
						L	A
							012 HRS
	MOT:PORT PEER /INS CL:B /125VDC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	OAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*MOV039A	RHR CONT SPRAY HDR NR COL C-11.				H,M	A
E11-F021A	VELAN	1E	G-10	.*88V-03		070 MIN
	LIMITORQUE		RBS	103. EQ		
	SMB-0-25	88V	310502			
					L	A
						180 DYS
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV039B	RHR CONT SPRAY VV NR COL C-5				H,M	A
E11-F021B	VELAN	1E	G-10	.*88V-03		070 MIN
	LIMITORQUE		RBS	103. EQ		
	SMB-0-25	88V	310502			
					L	A
						180 DYS
	MOT:RELIANCE /INS CL:B /460VAC					
1E41*MOV031	HPCI PP SUCT COND STG NR C-6				H,M	A
E41-F004	VELAN	1E	G-01			012 HRS
	LIMITORQUE		RBS	20. FT/IJ		
	SMB-0-25	88V	310502			
					L	A
						012 HRS
	MOT:PORT PEER /INS CL:B /125VDC					
1E41*MOV032	HPCI PP SUCT SUPP POOL NR C-7				H,M	A
E41-F042	VELAN	1E	G-01			012 HRS
	LIMITORQUE		RBS	24. FT/IJ		
	SMB-0-25	88V	310502			
					L	A
						012 HRS
	MOT:PORT PEER /INS CL:B /125VDC					

REPORT NO. PES-801
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JOB NAME SHOREHAM - UNIT 1
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STONE AND WEBSTER ENGINEERING CORPORATION
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.1P42*MOV041A	RBCLCW HX CROSSOVER INLET VV				*H,M	.*B
	VELAN	1E	G-01	.*88V-03		.*180 DYS
	LIMITORQUE		RBS	28. EQ		
	SMB-0-25	88V	310512			
					L	.*A
						.*070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV041B	RBCLCW HX CROSSOVER INLET VV				*H,M	.*B
	VELAN	1E	G-01	.*88V-03		.*180 DYS
	LIMITORQUE		RBS	28. EQ		
	SMB-0-25	88V	310502			
					L	.*A
						.*070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV042A	RBCLCW HT EXC INLET VV				*H,M	.*A
	VELAN	1E	G-01	.*88V-03		.*070 MIN
	LIMITORQUE		RBS	30. EQ		
	SMB-0-25	88V	310502			
					*L	.*A
						.*070 MIN
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV042B	RBCLCW HT EXCH INLET VV				*H,M	.*A
	VELAN	1E	G-01	.*88V-03		.*070 MIN
	LIMITORQUE		RBS	30. EQ		
	SMB-0-25	88V	310502			
					*L	.*A
						.*070 MIN
	MOT:RELIANCE /INS CL:B /460VAC					

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.1E11*MOV031A	RHR PP SUCTION MR COLUMN C-11				H,M	A
E11-F004A	ANCHOR DARLIN	1E	G-01	.*88V-03		180 DYS
	LINITORQUE		RBS	24. EQ		
	SMB-0-40	88AD	310501			
					L	A
						180 DYS
	MOT:RELIANCE/INS CL:B /460VAC					
.1E11*MOV031B	RHR PP SUCTION MR COLUMN C-5				H,M	A
E11-F004B	ANCHOR DARLIN	1E	G-01	.*88V-03		180 DYS
	LINITORQUE		RBS	24. EQ		
	SMB-0-40	88AD	310501			
					L	A
						180 DYS
	MOT:RELIANCE/INS CL:B /460VAC					
.1E11*MOV031C	RHR PP SUCTION MR COLUMN C-12				H,M	A
E11-F004C	ANCHOR DARLIN	1E	G-01	.*88V-03		180 DYS
	LINITORQUE		RBS	24. EQ		
	SMB-0-40	88AD	310501			
					L	A
						180 DYS
	MOT:RELIANCE/INS CL:B /460VAC					
.1E11*MOV031D	RHR PP SUCTION MR COLUMN C-4				H,M	A
E11-F004D	ANCHOR DARLIN	1E	G-01	.*88V-03		180 DYS
	LINITORQUE		RBS	24. EQ		
	SMB-0-40	88AD	310501			
					L	A
						180 DYS
	MOT:RELIANCE/INS CL:B /460VAC					

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*MOV032A E11-F006A	RHR PUMP SUCTION C-11 ANCHOR DARLIN LIMITORQUE SMB-0-40	1E 88AD	G-01 RBS 310501	15.	*88V-03 EQ	H,M L	A 180 DYS
	MOT:RELIANCE/INS CL:B /460VAC						
.1E11*MOV032B E11-F006B	RHR PUMP SUCTION C-5 ANCHOR DARLIN LIMITORQUE SMB-0-40	1E 88AD	G-01 RBS 310501	10.	*88V-03 EQ	H,M L	A 180 DYS
	MOT:RELIANCE/INS CL:B /460VAC						
.1E11*MOV032C E11-F006C	RHR PUMP SUCTION C-12 ANCHOR DARLIN LIMITORQUE SMB-0-40	1E 88AD	G-01 RBS 310501	20.	*88V-03 EQ	H,M L	A 180 DYS
	MOT:RELIANCE/INS CL:B /460VAC						
.1E11*MOV032D E11-F006D	RHR PUMP SUCTION C-4 ANCHOR DARLIN LIMITORQUE SMB-0-40	1E 88AD	G-01 RBS 310501	19.	*88V-03 EQ	H,M L	A 180 DYS
	MOT:RELIANCE/INS CL:B /460VAC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT		EMG COND / SUBMG	OPER CODE
.1G33*MOV031	REAC RECIRC SUCT EAST DRYWELL					H,M	B
G33-F102	VELAN	1E	B-22	.*88V-01			180 DYS
	LIMITORQUE		RBD	99. EQ			
	SMB-0-40	88V	310502				
						L	B
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
.1G41*MOV034A	P-211 SUCTION					H,M	B
	VELAN	1E	G-01	.*88V-01			180 DYS
	LIMITORQUE		RBS	30. EQ			
	SMB-0-7.5	88V	310502				
						L	A
							070 MIN
							N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1G41*MOV034B	P-211 SUCTION					H,M	B
	VELAN	1E	G-01				180 DYS
	LIMITORQUE		RBS	30. FT/IJ			
	SMB-0-7.5	88V	310502				
						L	A
							070 MIN
							N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1E11*MOV081A	1E11*AOV081A BYPASS SN DRYWELL					H,M	B
E11-F122A	VELAN	1E	D-22	.*88V-01			180 DYS
	LIMITORQUE		RBD	81. EQ			
	SMB-00-05	253	310512				
						L	A
							070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*MOV081B	1E11*AOV081B BYPASS NE DRYWELL					H,M	B
E11-F122B	VELAN	1E	D-22		.*88V-01		180 DYS
	LIMITORQUE		RBD	81.	EQ		
	SNB-00-05	253	310512				
						L	A
							070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC						
.1E21*MOV081A	1E21*AOV081A BYPASS WEST RB					H,M	B
E21-F047A	VELAN	1E	B-22		.*88V-01		180 DYS
	LIMITORQUE		RBD	128.	EQ		
	SNB-00-05	253	310512				
						L	A
							070 MIN
						MST	N/A
	MOT:RELIANCE /INS CL:RH/460VAC						
.1E21*MOV081B	1E21*AOV081B BYPASS EAST RB					H,M	B
E21-F047B	VELAN	1E	B-22		.*88V-01		180 DYS
	LIMITORQUE		RBD	128.	EQ		
	SNB-00-05	253	310512				
						L	A
							070 MIN
						MST	N/A
	MOT:RELIANCE /INS CL:RH/460VAC						
.1E41*MOV039	TO LUBE OIL COOLER C-8					H,M	A
E41-F059	VELAN	1E	G-01		.*		012 HRS
	LIMITORQUE		RBS	16.	*FT/IJ		
	SNB-00-05	253	310512				
						L	A
							012 HRS
	MOT:RELIANCE /INS CL:B /125VDC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENV COND / SUBMG	OPER CODE
.1P42*MOV037	TO HOT PENETRATION COOL					*L	.*A
	VELAN	1		.*			.*070 MIN
	*LIMITORQUE		RBS	74.	*FT/IJ		
	*SNB-00-05	253	310512				
.1G41*MOV032A	SERVICE WATER INLET VALVE					H,M	. B
	ITT GRINNELL	1E	S-18		.*88V-03		. 180 DYS
	LIMITORQUE		RBS	00162.	EQ		
	SNB-00-10	203	310539				
						L	. A
							. 180 DYS
							NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1G41*MOV032B	SERVICE WATER INLET VALVE					H,M	. B
	ITT GRINNELL	1E	S-18		.*88V-03		. 180 DYS
	LIMITORQUE		RBS	00162.	EQ		
	SNB-00-10	203	310539				
						L	. A
							. 180 DYS
							NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1B21*MOV061	MAIN STM LINE DRAIN VV					H,M	. A
B21-F067A	VELAN	1E	T-08		.*88V-03		. 070 MIN
	LIMITORQUE		RBS	00078.	EQ		
	SNB-00-10	253	310512				
						L	. A
							. 070 MIN
	MOT:RELIANCE /INS CL:H /460VAC						
.1B21*MOV062	MAIN STM LINE DRAIN VALVE					H,M	. A
B21-F067B	VELAN	1E	T-08		.*88V-03		. 070 MIN
	LIMITORQUE		RBS	00078.	EQ		
	SNB-00-10	253	310512				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC					
1B21*MOV063 B21-F067C	MAIN STM LINE DRAIN VALVE VELAN LIMITORQUE SMB-00-10	1E 253	T-08 .*88V-03 RBS 00078. EQ 310512		H,M	A 070 MIN
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:H /460VAC					
.1B21*MOV064 B21-F067D	MAIN STM LINE DRAIN VALVE VELAN LIMITORQUE SMB-00-10	1E 253	T-08 .*88V-03 RBS 00078. EQ 310512		H,M	A 070 MIN
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:H /460VAC					
.1B21*MOV031 B21-F016	DRAIN TO CONDNSR NORTH DRYWELL VELAN LIMITORQUE SMB-00-10	1E 88V	D-22 .*88V-01 RBD 79. EQ 310502		H,M	A 070 MIN
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC					
.1E11*MOV052 E11-F040	TO RADWASTE SURGE TK NEAR C-4 VELAN LIMITORQUE SMB-00-10	1E 88V	G-07 .*88V-03 RBS 73. EQ 310502		H,M	B 180 DYS

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
						L	B
							180 DYS
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
1E11*MOV053	RHR HEAD SPRAY NR COLUMN	C-5				H,N	A
E11-F023	VELAN	1E	G-12				070 MIN
	LIMITORQUE		RBS	103.	FT/IJ		
	SNB-00-10	88V	310502				
						L	A
							070 MIN
	MOT:PORT PEER /INS CL:B /125VDC						
1E41*MOV036	HPCI P MIN FLOW BYPASS NR	C-7				H,M	A
E41-F012	VELAN	1E	G-01				012 HRS
	LIMITORQUE		RBS	20.	FT/IJ		
	SNB-00-10	88V	310502				
						L	A
							012 HRS
	MOT:PORT PEER /INS CL:B /125VDC						
.1E51*MOV034	RCIC PUMP DISCH					*H,M	.*B
E51-F012	VELAN	1E	G-01				.*180 DYS
	LIMITORQUE		RBS	19.*	FT/IJ		
	SNB-00-10	88V	310502				
						L	.*B
							.*180 DYS
							N/A
	MOT:PORT PEER /INS CL:B /125VDC						
.1E51*MOV035	RCIC PUMP DISCH					*H,M	.*B
E51-F013	VELAN	1E	T-12		.*88V-02		.*180 DYS
	LIMITORQUE		RBS	80.*	QS		
	SNB-00-10	88V	310502				

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC REVSET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
	MOT:PORT PEER /INS CL:RH/125VDC						
.1E51*MOV037	RCIC DISCH TO COND STG		.			*H,M	.*B
E51-F022	VELAN	1E	. G-01	.	.		.*180 DYS
	LIMITORQUE		. RBS	20. FT/IJ	.		.
	SMB-00-10	88V	. 310502	.	.		.
			.			L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:PORT PEER /INS CL: /125VDC						
.1E51*MOV041	RCIC STEAM TO TURB NRT DRYWELL.					*H,M	.*A
E51-F007	VELAN	1E	. D-22	.*88V-01	.		.*070 MIN
	LIMITORQUE		. RBD	88. EQ	.		.
	SMB-00-10	88V	. 310502	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
	MOT:RELIANCE /INS CL:RH/460VAC						
.1G33*MOV032	REAC VESSEL DRAIN EAST DRYWELL.					H,M	. B
G33-F101	VELAN	1E	. B-22	.*88V-01	.		. 180 DYS
	LIMITORQUE		. RBD	99. EQ	.		.
	SMB-00-10	88V	. 310502	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	MOT:RELIANCE /INS CL:RH/460VAC						
.1E11*MOV041A	RHR SUPP POOL SPRAY HD NR C-10.					H,M	. B
E11-F027A	VELAN	1E	. G-02	.*88V-03	.		. 180 DYS
	LIMITORQUE		. RBS	51. EQ	.		.
	SMB-00-15	88V	. 310502	.	.		.

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					L	A
						180 DYS
						NA
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV041B	RHR SUPP POOL SPRAY HD NR C-6				H,M	B
E11-F027B	VELAN	1E	G-02	.*		180 DYS
	LIMITORQUE		RBS	40. FT/IJ		
	SNB-00-15	88V	399772			
					L	A
						180 DYS
						NA
	MOT:I /INS CL:RH/125VDC					
.1E11*MOV043A	RHR HX TO RCIC P SUCT NR C-11				H,M	B
E11-F026A	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	17. EQ		
	SNB-00-15	88V	310502			
					L	B
						180 DYS
						NA
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV043B	RHR HX TO RCIC P SUCT NR C-5				H,M	B
E11-F026B	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	17. EQ		
	SNB-00-15	88V	310502			
					L	B
						180 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV044A	RHR HX DR TO SUPP POOL C-11				H,M	B
E11-F011A	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	17. EQ		
	SNB-00-15	88V	310502			

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					L	B
						180 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV044B E11-F011B	RHR HX DR TO SUPP POOL C-5 VELAN LIMITORQUE SNB-00-15	1E 88V	G-01 RBS 310502	.*88V-03 17. EQ	H,M	B 180 DYS
					L	B
						180 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV054 E11-F022	RHR HEAD SPRAY NR COLUMN C-5 VELAN LIMITORQUE SNB-00-15	1E 88V	B-22 RBD 310502	.*88V-01 104. EQ	H,M	A 070 MIN
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC					
.1G33*MOV030A G33-F106	REAC RECIRC SUCT EAST DRYWELL VELAN LIMITORQUE SNB-00-15	1E 88V	B-22 RBD 310502	.*88V-01 98. EQ	H,M	B 180 DYS
					L	B
						180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC					
.1G33*MOV030B G33-F100	REAC RECIRC SUCT EAST DRYWELL VELAN LIMITORQUE SNB-00-15	1E 88V	B-22 RBD 310502	.*88V-01 99. EQ	H,M	B 180 DYS

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						L	B 180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1G33*MOV034 G33-F004	REACTOR VESSEL DISCH VELAN LIMITORQUE SNB-00-15	1E 88V	P-14 RBS 310502	121.	FT/IJ	H,M	A 070 MIN
						L	A 070 MIN
	MOT:PORT PEER /INS CL:B /125VDC						
.1G33*MOV041 G33-F106	RHCV SYS REAC RETURN VELAN LIMITORQUE SNB-00-15	1E 88V	T-08 RBS 310502	.*88V-03 78.	EQ	H,M	B 180 DYS
						L	A 070 MIN
	MOT:RELIANCE /INS CL:B /460VAC						
.1N11*MOV036	MISC STM FROM DHR ISOL VELAN LIMITORQUE SNB-00-15	1E 88V	TB ST 310502	.*88V-03 53.	EQ	H,M	B 180 DYS
						L	A 070 MIN N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1N11*MOV041	AUX STEAM SUPPLY VELAN LIMITORQUE SNB-00-15	1E 88V	ST ST 310502	.*88V-03 50.	EQ	H,M	B 180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1G33*MOV033	REAC VESSEL DISCH EAST DRYWELL.				H,M	A
G33-F001	VELAN	1E	B-22	*88V-01		070 MIN
	LIMITORQUE		RBD 121.	EQ		
	SMB-00-25	88V	310502			
					L	B
						180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC					
.1E51*MOV031	RCIC PUMP SUCT COND STG				*H,M	*B
E51-F010	VELAN	1E	G-01			*180 DYS
	LIMITORQUE		RBS 24.	FT/IJ		
	SMB-00-5	88V	310502			
					*L	*B
						*180 DYS
	MOT:PORT PEER /INS CL:B /125VDC					
.1E51*MOV032	RCIC PUMP SUCT SUPP POOL				*H,M	*B
E51-F031	VELAN	1E	G-01			*180 DYS
	LIMITORQUE		RBS 24.	FT/IJ		
	SMB-00-5	88V	310502			
					*L	*B
						*180 DYS
	MOT:PORT PEER /INS CL:B /125VDC					
1T48*MOV031A	ATMOS INDD CONT ISO MN DRYWELL.				H,M	B
	VELAN	1E	D-22	88V-01		100 DYS
	LIMITORQUE		RBD 67.	EQ		
	SMB-00-5	88V	310502			

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						L	A 180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV031B	ATMOS INSD CONT ISO SE DRYWELL.					H,M	B
	VELAN	1E	D-22	88V-01			180 DYS
	LIMITORQUE		RBS	73. EQ			
	SMB-00-5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV033A	ATMOS INSD CONT ISO N SUP CHM.					H,M	B
	VELAN	1E	L-02	88V-01			180 DYS
	LIMITORQUE		RBS	51. EQ			
	SMB-00-5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV033B	ATMOS INSD CONT ISO NE SUP CHM.					H,M	B
	VELAN	1E	L-02	88V-01			180 DYS
	LIMITORQUE		RBS	51. EQ			
	SMB-00-5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1B21*MOV034 B21-F020	DRAIN TO CONDENSER					H,M	B
	VELAN	1E	H-08	*88V-03			180 DYS
	LIMITORQUE		RBS	78. EQ			
	SMB-00-7.5	88V	310502				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT		EMG COND / SUBMG	OPER CODE
			.				L	. B
			.	.		.		. 180 DYS
			.	.		.		.
			.	.		.		.
	MOT:RELIANCE /INS CL:B /460VAC							
1E11*MOV051	RHR TO RADW SURGE TANK		.				H,M	. B
E11-F049	VELAN	1E	. G-07	.		.		. 180 DYS
	LIMITORQUE		. RBS	63.	FT/IJ	.		.
	SMB-00-7.5	88V	. 310502	.		.		.
			.				L	. B
			.	.		.		. 180 DYS
			.	.		.		.
			.	.		.		. N/A
	MOT:PORT PEER /INS CL:B /125VDC							
.1E51*MOV042	RCIC STEAM TO TURBINE		.				*H,M	.*A
E51-F008	VELAN	1E	. T-08		.*88V-02	.		.*070 MIN
	LIMITORQUE		. RBS	88.	QG	.		.
	SMB-00-7.5	88V	. 310502	.		.		.
			.				*L	.*A
			.	.		.		.*070 MIN
			.	.		.		.
			.	.		.		.
	MOT:PORT PEER /INS CL:H /125VDC							
.1E51*MOV043	RCIC STH TO TURBINE		.				*H,M	.*B
E51-F045	*COPES VULCAN	1E	. G-01		.*88V-02	.		.*180 DYS
	LIMITORQUE		. RBS	12.	QG	.		.
	SMB-00-7.5	88V	. 310502	.		.		.
			.				*L	.*B
			.	.		.		.*180 DYS
			.	.		.		.
			.	.		.		.
	MOT:PORT PEER /INS CL:H /125VDC							
1T48*MOV032A	ATMOS INDD CONT ISO SN DRYWELL.						H,M	. B
	VELAN	1E	. D-22		. 88V-01	.		. 100 DYS
	LIMITORQUE		. RCD	71.	EQ	.		.
	SMB-00-7.5	88V	. 310502	.		.		.

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						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV032B	ATMOS INBD CONT ISO NE DRYWELL.					H,M	B
	VELAN	1E	D-22		88V-01		180 DYS
	LIMITORQUE		RBD	71.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV034A	ATMOS INBD CONT ISO SW SUP CHM.					H,M	B
	VELAN	1E	L-02		88V-01		180 DYS
	LIMITORQUE		RBS	51.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
1T48*MOV034B	ATMOS INBD CONT ISO S SUP CHM .					H,M	B
	VELAN	1E	L-02		88V-01		180 DYS
	LIMITORQUE		RBS	51.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
.1T48*MOV037A	ATMOS OTBD CONT ISO					H,M	B
	VELAN	1E	G-03		.*88V-03		180 DYS
	LIMITORQUE		RBS	73.	EQ		
	SMB-00-7.5	88V	310502				

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						L	A
							180 DYS
	MOT:RELIANCE /INS CL:RH/460VAC						
.1T48*MOV037B	ATMOS OTBD CONT ISO					H,M	B
	VELAN	1E	G-03		*88V-03		180 DYS
	LIMITORQUE		RBS	72.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:B /460VAC						
.1T48*MOV040A	ATMOS OTBD CONT ISO					H,M	B
	VELAN	1E	L-02		*88V-03		180 DYS
	LIMITORQUE		RBS	51.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:B /460VAC						N/A
.1T48*MOV040B	ATMOS OTBD CONT ISO					H,M	B
	VELAN	1E	L-02		*88V-03		180 DYS
	LIMITORQUE		RBS	51.	EQ		
	SMB-00-7.5	88V	310502				
						L	A
							180 DYS
	MOT:RELIANCE /INS CL: /460VAC						N/A
.1T48*MOV006A	GAS INLET VALVE					L	A
FV-1	ATOMICS INST	1E	J-15		*88V-01		180 DYS
	LIMITORQUE	1E	RBS	00112.	EQ		
	SMB-000	289	310624				
	MOT:RELIANCE /INS CL:RH/460VAC						

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.1T48*MOV006B FV-1	GAS INLET VALVE ATOMICS INST LIMITORQUE SMB-000 MOT:RELIANCE /INS CL:RH/460VAC	1E 1E 289	.*J-16 . RBS 00112. . 310624	.*88V-01 EQ .	L	. A . 180 DYS
.1T48*MOV007A FV-2	RECIRC GAS ATOMICS INST LIMITORQUE SMB-000 MOT:RELIANCE /INS CL:RH/460VAC	1E 1E 289	. J-15 . RBS 00112. . 310624	.*88V-01 EQ .	L	. A . 180 DYS
*1T48*MOV007B ADDED	*RECIRC GAS *ATOMICS INST *LIMITORQUE *SMB-000	*1E *289	.*J-16 .*RBS *00112. .*310624	.*88V-01 *EQ .	*L	.*A .*180 DYS
.1T48*MOV016A MV-10	WATER VALVE ATOMICS INST LIMITORQUE SMB-000 MOT:PARMOUNT /INS CL:B /460VAC	1E 289	. J-15 . RBS 00112. . 310624	.* *FT/IJ .	L	. A . 180 DYS . N/A
.1T48*MOV016B MV-10	WATER VALVE ATOMICS INST LIMITORQUE SMB-000 MOT:PARMOUNT /INS CL:B /460VAC	1E 289	.*J-16 . RBS 00112. . 310624	.* *FT/IJ .	L	. A . 180 DYS . N/A
.1P41*MOV039A 03120004	DRAIN TO RHR SYSTEM ITT GRINNELL LIMITORQUE SMB-000-02 MOT:RELIANCE /INS CL:B /460VAC	1E 203	. G-01 . RBS 20. . 310539	.*88V-03 EQ .	*H,M L	.*B .*180 DYS .*A .*180 DYS . N/A
.1P41*MOV039B 03140004	DRAIN TO RHR SYSTEM ITT GRINNELL LIMITORQUE SMB-000-02	1E 203	. G-01 . RBS 20. . 310539	.*88V-03 EQ .	*H,M	.*B .*180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG ELEV PO NUMBER	EQ SHEET QUAL STAT	EMG COND SUBMG	OPER CODE
		.			L	.*A
		.	. .			.*180 DYS
		.	. .			.
		.	. .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV043	SPENT FUEL POOL LINE DRAIN VV	.			*H,M	.*B
03200004	ITT GRINNELL	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	18. EQ .		.
	SNB-000-02	203	. 310539	. .		.
		.			L	.*A
		.	. .			.*180 DYS
		.	. .			.
		.	. .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV102A	SAMPLE TO RAD MONITOR	.			*H,M	.*B
	ITT GRINNELL	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	8. EQ .		.
	SNB-000-02	203	. 310539	. .		.
		.			L	.*A
		.	. .			.*180 DYS
		.	. .			.
		.	. .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P41*MOV102B	SAMPLE TO RAD MONITOR	.			*H,M	.*B
	ITT GRINNELL	1E	. G-01	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	8. EQ .		.
	SNB-000-02	203	. 310539	. .		.
		.			L	.*A
		.	. .			.*180 DYS
		.	. .			.
		.	. .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P50*MOV104	INST AIR TO SUPP CHAMBER VV	.			H,M	. B
	VELAN	1E	. G-01	.*88V-03 .		. 180 DYS
	LIMITORQUE		. RB3	00020. EQ .		.
	SNB-000-02	214	. 310512	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT		EMG COND / SUBMG	OPER CODE
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			. NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1P50*MOV106	INSTR AIR TO SUPP CHAMBER EB		.			H,M	. B
	VELAN	1E	. G-01	.*88V-03	.		. 180 DYS
	LINITORQUE		. RBS 00020.	EQ	.		.
	SMB-000-02	214	. 310512	.	.		.
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			. NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1T23*MOV031A	INLET PRESS TO ACC-A		.			H,M	. B
	VELAN	1E	. L-02	.*88V-03	.		. 180 DYS
	LINITORQUE		. RBS 40.	EQ	.		.
	SMB-000-02	214	. 310512	.	.		.
			.			L	. A
			. .	.			. 001 DYS
			. .	.			.
			. .	.			. NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1T23*MOV031B	INLET PRESS TO ACC-B		.			H,M	. B
	VELAN	1E	. L-02	.*88V-03	.		. 180 DYS
	LINITORQUE		. RBS 40.	EQ	.		.
	SMB-000-02	214	. 310512	.	.		.
			.			L	. A
			. .	.			. 001 DYS
			. .	.			.
			. .	.			. NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1D11*MOV032A	RADIATION MONITORING XS-12		.			H,M	. B
	VELAN	1E	. D-22	.*88V-01	.		. 180 DYS
	LINITORQUE		. RBD 75.	EQ	.		.
	SMB-000-02	253	. 310512	.	.		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						070 MIN
					MST	N/A
	MOT:RELIANCE /INS CL:RH/460VAC					
.1D11*MOV032B	RADIATION MONITORING XS-12				H,M	B
	VELAN	1E	G-06	.*88V-03		180 DYS
	LIMITORQUE		RBS 00063.	EQ		
	SNB-000-02	253	310512			
					L	A
						070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1D11*MOV033A	RADIATION MONITORING XS-13				H,M	B
	VELAN	1E	D-22	.*88V-01		180 DYS
	LIMITORQUE		RBD 75.	EQ		
	SNB-000-02	253	310512			
					L	A
						070 MIN
					MST	N/A
	MOT:RELIANCE /INS CL:RH/460VAC					
.1D11*MOV033B	RADIATION MONITORING XS-13				H,M	B
	VELAN	1E	G-06	.*88V-03		180 DYS
	LIMITORQUE		RBS 00063.	EQ		
	SNB-000-02	253	310512			
					L	A
						070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV055A	RHR HX SHELL VENT MR C-11				H,M	B
E11-F104A	VELAN	1E	G-02	.*		180 DYS
	LIMITORQUE		RBS 45.	*FT/IJ		
	SNB-000-02	253	310512			

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			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV055B	RHR HX SHELL VENT NR C-5		.			H,M	. B
E11-F104B	VELAN	1E	. G-02	.*	.		. 180 DYS
	LIMITORQUE		. RBS	45.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV056A	RHR HX SHELL VENT NR C-11		.			H,M	. B
E11-F103A	VELAN	1E	. G-02	.*	.		. 180 DYS
	LIMITORQUE		. RBS	45.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV056B	RHR HX SHELL VENT NR C-5		.			H,M	. B
E11-F103B	VELAN	1E	. G-02	.*	.		. 180 DYS
	LIMITORQUE		. RBS	45.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV057A	TO HYDROGEN RECOMBINER WEST		.			H,M	. B
	VELAN	1E	. G-01	.*80V-03	.		. 180 DYS
	LIMITORQUE		. RBS	8. EQ	.		.
	SNB-000-02	253	. 310512	.	.		.

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JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

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			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV057B	TO HYDROGEN RECOMBINER EAST		.			H,M	. B
	VELAN	1E	. G-01	.*	.		. 180 DYS
	LIMITORQUE		. RBS	8.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	L-OP CODE B REM: H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1E41*MOV047	MOV041 BYPASS NRTH DRYWELL		.			H,M	. A
E41-F097	VELAN	1E	. D-22	.*	.		. 012 HRS
	LIMITORQUE		. RBD	66.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. A
			.	.	.		. 012 HRS
			.	.	.		.
			.	.	.		.
	MOT:RELIANCE /INS CL:RH/460VAC						
.1E41*MOV048	MOV042 BYPASS NR C-7		.			H,M	. A
E41-F060	VELAN	1E	. G-03	.*	.		. 012 HRS
	LIMITORQUE		. RBS	64.*FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.
			.			L	. A
			.	.	.		. 012 HRS
			.	.	.		.
			.	.	.		.
	MOT:PORT PEER /INS CL:RH/125VDC						
1E41*MOV049	HPCI TURB EXH VAC BNR C-8		.			H,M	. A
E41-F079	VELAN	1E	. G-01	.	.		. 012 HRS
	LIMITORQUE		. RBS	34. FT/IJ	.		.
	SNB-000-02	253	. 310512	.	.		.

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JOB CLIENT LILCO SORTED BY - NAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
						L	A
							012 HRS
	MOT:PORT PEER /INS CL:B /125VDC						
1E51*MOV046	VAC PUMP DISCH TO POOL					*H,M	*B
E51-F002	VELAN	1E	G-01				*180 DYS
	LIMITORQUE		RBS	29.	FT/IJ		
	SNB-000-02	253	310512				
						L	*A
							*070 MIN
							N/A
	MOT:PORT PEER /INS CL:B /125VDC						
1E51*MOV047	1E51*MOV041 BYPASS NRT DRYWELL					*H,M	*A
E51-F005	VELAN	1E	D-22		*89V-01		*070 MIN
	LIMITORQUE		RBD	88.	EQ		
	SNB-000-02	253	310512				
						*L	*A
							*070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC						
1E51*MOV048	1E51*MOV042 BYPASS					*H,M	*A
E51-F075	VELAN	1E	T-08		*89V-02		*070 MIN
	LIMITORQUE		RBS	89.	QG		
	SNB-000-02	253	310512				
						*L	*A
							*070 MIN
	MOT:PORT PEER /INS CL:RH/125VDC						
1E51*MOV049	RCIC TURB EXH VAC BKR					*H,M	*B
E51-F084	VELAN	1E	G-01				*180 DYS
	LIMITORQUE		RDS	34.	FT/IJ		
	SNB-000-02	253	310512				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		. N/A
	MOT:PORT PEER /INS CL:B /125VDC						
.1T48*MOV004	SUPPRESSION POOL INLET		.			H,M	. B
	VELAN	1E	. L-02		.*88V-03	.	. 180 DYS
	LIMITORQUE		. RBS	40.	EQ	.	.
	SNB-000-02	253	. 310512		.	.	.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P50*MOV103A	COMPA SUCE OUTBD ISOLV		.			H,M	. B
04330008	VELAN	1E	. G-09		.*	.	. 180 DYS
	LIMITORQUE		. RBS	00078.	*FT/IJ	.	.
	SNB-000-05	214	. 310512		.	.	.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	MOT:RELIANCE /INS CL:B /460VAC						
.1P50*MOV103B	COMPA SVCE OUTBD ISOL VV		.			H,M	. B
04350003	VELAN	1E	. G-12		.*88V-03	.	. 180 DYS
	LIMITORQUE		. RBS	00078.	EQ	.	.
	SNB-000-05	214	. 310512		.	.	.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
	MOT:RELIANCE /INS CL:B /460VAC						
.1P50*MOV105A	COMPA SVCE INBOARD ISOL VV		.			H,M	. A
	VELAN	1E	. D-22		.*88V-01	.	. 070 MIN
	LIMITORQUE		. RBD	00078.	EQ	.	.
	SNB-000-05	214	. 310512		.	.	.

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			.		L	. A
			. . .			. 070 MIN
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:RH/460VAC					
.1P50*MOV105B	SERVICE AIR HDR A PRESS		.		H,M	. A
	VELAN	1E	. B-22	.*89V-01		. 070 MIN
	LIMITORQUE		. RBD 00078.	EQ		.
	SMB-000-05	214	. 310512	.		.
			.		L	. A
			. . .			. 070 MIN
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:RH/460VAC					
.1P50*MOV113A	COMPA SVCE NORM SUPPLY VV		.		H,M	. A
04370008	VELAN	1E	. G-09	.*89V-03		. 070 MIN
	LIMITORQUE		. RBS 00078.	EQ		.
	SMB-000-05	214	. 310512	.		.
			.		L	. A
			. . .			. 070 MIN
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P50*MOV113B	COMPA SVCE NORM. SPLY VV		.		H,M	. A
04390008	VELAN	1E	. G-12	.*89V-03		. 070 MIN
	LIMITORQUE		. RBS 00078.	EQ		.
	SMB-000-05	214	. 310512	.		.
			.		L	. A
			. . .			. 070 MIN
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P50*MOV114A	COMPA SVCE EMERG SPLY VV		.		H,M	. A
04410008	VELAN	1E	. G-09	.*89V-03		. 070 MIN
	LIMITORQUE		. RBS 00078.	EQ		.
	SMB-000-05	214	. 310512	.		.

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JOB CLIENT LILCO

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					L	A
						070 MIN
	MOT:RELIANCE /INS CL:B /460VAC					
.1P50*MOV114B	COMPA SVCE EMER SPLY VV				H,M	A
04430008	VELAN	1E	G-12	.*88V-03		070 MIN
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	214	310512			
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:B /460VAC					
.1B21*MOV068A	MN STM LINE OUTBD DRN VVS				H,M	A
	VELAN	1E	T-08	.*88V-01		070 MIN
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC					N/A
.1B21*MOV068B	MN STM LINE OUTBD DRN VVS				H,M	A
	VELAN	1E	T-08	.*88V-01		070 MIN
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			
					L	A
						070 MIN
	MOT:RELIANCE /INS CL:RH/460VAC					N/A
.1B21*MOV068C	MN STM LINE OUTBD DRN VVS				H,M	A
	VELAN	1E	T-08	.*88V-01		070 MIN
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MANE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			. N/A
	MOT:RELIANCE /INS CL:RH/460VAC						
.1B21*MOV068D	MN STM LINE OUTBD DRN VVS		.			H,M	. A
	VELAN	1E	. T-08		.*88V-01	.	. 070 MIN
	LIMITORQUE		. RBS	00078.	EQ	.	.
	SMB-000-05	253	. 310512		.	.	.
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			. N/A
	MOT:RELIANCE /INS CL:RH/460VAC						
.1B21*MOV083	REAC VESSEL HEAD VENT		.			H,M	. A
B21-F001	VELAN	1E	. A-22		.*88V-01	.	. 070 MIN
	LIMITORQUE		. RBP	00141.	EQ	.	.
	SMB-000-05	253	. 310512		.	.	.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
	MOT:RELIANCE /INS CL:RH/460VAC						
.1B21*MOV084	REAC VESSEL HEAD VENT		.			H,M	. A
B21-F002	VELAN	1E	. A-22		.*88V-01	.	. 070 MIN
	LIMITORQUE		. RBP	00141.	EQ	.	.
	SMB-000-05	253	. 310512		.	.	.
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			.
	MOT:RELIANCE /INS CL:RH/460VAC						
.1B21*MOV085	REAC VESSEL HEAD VENT		.			H,M	. B
B21-F005	VELAN	1E	. A-22		.*88V-01	.	. 180 DYS
	LIMITORQUE		. RBP	00141.	EQ	.	.
	SMB-000-05	253	. 310512		.	.	.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	B
						180 DYS
	NOT:RELIANCE /INS CL:RH/460VAC					
.1E32*MOV024	LCS OUTBOARD PROCESS VLV				H,M	B
E32-F006	VELAN	1E	T-08	.*88V-03		180 DYS
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			
					L	A
						100 DYS
	NOT:RELIANCE /INS CL:B /460VAC					N/A
.1E32*MOV025	LCS OUTBOARD PROCESS VLV				H,M	B
E32-F007	VELAN	1E	T-08	.*88V-03		180 DYS
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			
					L	A
						100 DYS
	NOT:RELIANCE /INS CL:B /460VAC					N/A
.1E32*MOV026	LCS OUTBOARD BYPASS VLV				H,M	B
E32-F008	VELAN	1E	T-08	.*88V-03		180 DYS
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			
					L	A
						100 DYS
	NOT:RELIANCE /INS CL:B /460VAC					N/A
.1E32*MOV027	LCS OUTBOARD BYPASS VLV				H,M	B
E32-F009	VELAN	1E	T-08	.*88V-03		180 DYS
	LIMITORQUE		RBS 00078.	EQ		
	SMB-000-05	253	310512			

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
JOB NUMBER 1160002 PROJECT EQUIPMENT SYSTEM - (IS-129) REPORT DATE 05/21/82 PAGE 142
JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / EQ NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
					L	A
						100 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E51*MOV036	RCIC PUMP MIN FLOW BYPASS				*H,H	.*B
E51-F019	VELAN	1E	G-01			.*180 DYS
	LIMITORQUE		RBS	18.*FT/IJ		
	SNB-000-05	253	310512			
					*L	.*B
						.*180 DYS
	MOT:RELIANCE /INS CL:B /125VDC					
.1E51*MOV038	TO LUBE OIL COOLER				*H,H	.*B
E51-F046	VELAN	1E	G-01			.*180 DYS
	LIMITORQUE		RBS	15.*FT/IJ		
	SNB-000-05	253	310512			
					*L	.*B
						.*180 DYS
	MOT:RELIANCE /INS CL:B /125VDC					
.1G11*MOV639A	CHANGED TO 1Z91*MOV001				L	A
	VELAN	1E	G-01	.*88V-03		070 MIN
	LIMITORQUE		RBS	00020. EQ		
	SNB-000-05	88V	310502			N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1G11*MOV639B	CHANGED TO 1Z91*MOV002				L	A
	VELAN	1E	G-01	.*88V-03		070 MIN
	LIMITORQUE		RBS	00020. EQ		
	SNB-000-05	88V	310502			N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1G11*MOV639C	SUPP POOL PMP BACK ISOL VV				H,H	B
	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	00020. EQ		
	SNB-000-05	88V	310502			

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENV COND / SUBMS	OPER CODE
		.				L	. A
		.	.	.			. 160 DYS
		.	.	.			.
		.	.	.			. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV233	IN.VV TO DRYWELL COOLER 17A	.				*H,M	.*B
	VELAN	1E	. G-03	.*	.		.*180 DYS
	LIMITORQUE		. RBS	68. FT/IJ	.		.
	SMB-000-05	80V	. 310502	.	.		.
		.				L	.*A
		.	.	.			.*070 MIN
		.	.	.			.
		.	.	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1P42*MOV234	IN.VV TO DRYWELL COOLER 17A	.				*H,M	.*B
	VELAN	1E	. G-03	.*	.		.*180 DYS
	LIMITORQUE		. RBS	69. FT/IJ	.		.
	SMB-000-05	80V	. 310502	.	.		.
		.				L	.*A
		.	.	.			.*070 MIN
		.	.	.			.
		.	.	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1P42*MOV235	IN.VV TO DRYWELL COOLER 17A	.				*H,M	.*B
	VELAN	1E	. G-03	.*	.		.*180 DYS
	LIMITORQUE		. RBS	70. FT/IJ	.		.
	SMB-000-05	80V	. 310502	.	.		.
		.				L	.*A
		.	.	.			.*070 MIN
		.	.	.			.
		.	.	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1P42*MOV236	OUT.VV TO DRYWELL COOLER 17B	.				*H,M	.*B
	VELAN	1E	. G-03	.*	.		.*180 DYS
	LIMITORQUE		. RBS	66. FT/IJ	.		.
	SMB-000-05	80V	. 310502	.	.		.

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1P42*MOV237	IN.VV TO DRYWELL COOLER 17B		.		*H,M	.*B
	VELAN	1E	. G-03	.* .		.*180 DYS
	LIMITORQUE		. RBS	67. FT/IJ .		.
	SMB-000-05	80V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1P42*MOV238	IN.VV TO DRYWELL COOLER 17B		.		*H,M	.*B
	VELAN	1E	. G-03	.* .		.*180 DYS
	LIMITORQUE		. RBS	68. FT/IJ .		.
	SMB-000-05	80V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1P42*MOV239	IN.VV TO DRYWELL COOLER 17B		.		*H,M	.*B
	VELAN	1E	. G-03	.* .		.*180 DYS
	LIMITORQUE		. RBS	69. FT/IJ .		.
	SMB-000-05	80V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1P42*MOV240	IN.VV TO DRYWELL COOLER 17B		.		*H,M	.*B
	VELAN	1E	. G-03	.* .		.*180 DYS
	LIMITORQUE		. RBS	70. FT/IJ .		.
	SMB-000-05	80V	. 310502	. .		.

REPORT NO. PES-801 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1T48*MOV035A	ATMOS OTBD CONT ISO		.		H,M	. B
	VELAN	1E	. G-03	.*88V-03 .		. 180 DYS
	LIMITORQUE		. RBS	68. EQ .		.
	SMB-000-05	88V	. 310502	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:B /460VAC					
.1T48*MOV035B	ATMOS OTBD CONT ISO		.		H,M	. B
	VELAN	1E	. G-03	.*88V-03 .		. 180 DYS
	LIMITORQUE		. RBS	73. EQ .		.
	SMB-000-05	88V	. 310502	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:B /460VAC					
.1E21*MOV031A	CORE SPRAY PP SUCT NR COL C-10.				H,M	. B
E21-F001A	ANCHOR DARLIN	1E	. G-01	.*88V-03 .		. 180 DYS
	LIMITORQUE		. RBS	14. EQ .		.
	SMB-000-5	88AD	. 310501	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. NA
	MOT:RELIANCE /INS CL:B /460VAC					
.1E21*MOV031B	CORE SPRAY PP SUCT NR COL C-6 .				H,M	. B
E21-F001B	ANCHOR DARLIN	1E	. G-01	.*88V-03 .		. 180 DYS
	LIMITORQUE		. RBS	29. EQ .		.
	SMB-000-5	88AD	. 310501	. .		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						180 DYS
						NA
	MOT:RELIANCE /INS CL:B /460VAC					
.1B21*MOV032	DRAIN TO CONDENSER				H,M	A
B21-F019	VELAN	1E	T-08	.*88V-02		070 MIN
	LIMITORQUE		RDS	79. QG		
	SMB-000-5	88V	310502			
					L	A
						070 MIN
	MOT:PORT PEER /INS CL:RH/125VDC					
.1E11*MOV085A	RHR FP MIN FLOW BYPASS NR C-11.				H,M	A
E11-F007A	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RDS	17. EQ		
	SMB-000-5	88V	310502			
					L	A
						180 DYS
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV085B	RHR FP MIN FLOW BYPASS NR C-5 .				H,M	A
E11-F007B	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RDS	17. EQ		
	SMB-000-5	88V	371843			
					L	A
						180 DYS
	MOT:RELIANCE /INS CL:B /460VAC					
.1E21*MOV034A	CORE SPRAY P NI FL NR COL C-11.				H,M	B
E21-F031A	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RDS	15. EQ		
	SMB-000-5	88V	310502			

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

RESET NO. 004
RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENV COND / SUSMG	OPER CODE
					L	A
						180 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E21*MOV034B E21-F031B	CORE SPRAY P MI FL NR COL C-5 VELAN LIMITORQUE SMB-000-5	1E 80V	G-01 RBS 310502	.*80V-03 15. EQ	H,M	B 180 DYS
					L	A
						180 DYS
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1E51*MOV045 E51-F001	TORB EXH TO SUPP POOL VELAN LIMITORQUE SMB-000-5	1E 80V	G-01 RBS 310502	31. FT/IJ	*H,M	.*B .*180 DYS
					L	.*A .*070 MIN
						N/A
	MOT:PORT PEER /INS CL:B /125VDC					
.1G11*MOV046	DRYWELL EQUIP DR VV VELAN LIMITORQUE SMB-000-5	1E 80V	G-02 RBS 310502	.*80V-01 40. EQ	H,M	B 180 DYS
					L	A
						070 MIN
						N/A
	MOT:RELIANCE /INS CL:RM/460VAC					
.1G11*MOV047	DRYWELL EQUIP DR VV VELAN LIMITORQUE SMB-000-5	1E 80V	G-02 RBS 310502	.*80V-03 40. EQ	H,M	B 180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	. A
			.	.	.		. 070 MIN
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1G11*MOV248	DRYWELL FLOOR DRAINS		.			H,M	. B
	VELAN	1E	. L-02		.*88V-01	.	. 180 DYS
	LIMITORQUE		. RBS	40.	EQ	.	.
	SMB-000-5	88V	. 310502	.		.	.
			.			L	. A
			.	.	.		. 070 MIN
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:BH/460VAC						
.1G11*MOV289	DRYWELL FLOOR DRAINS		.			H,M	. B
	VELAN	1E	. L-02		.*88V-03	.	. 180 DYS
	LIMITORQUE		. RBS	40.	EQ	.	.
	SMB-000-5	88V	. 310502	.		.	.
			.			L	. A
			.	.	.		. 070 MIN
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1G41*MOV033A	SUPPRESSION POOL INLET		.			H,M	. B
	VELAN	1E	. G-02		.*	.	. 180 DYS
	LIMITORQUE		. RBS	46.	FT/IJ	.	.
	SMB-000-5	88V	. 310502	.		.	.
			.			L	. A
			.	.	.		. 070 MIN
			.	.	.		.
			.	.	.		. N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1G41*MOV033B	SUPPRESSION POOL INLET		.			H,M	. B
	VELAN	1E	. G-02		.*	.	. 180 DYS
	LIMITORQUE		. RBS	44.	FT/IJ	.	.
	SMB-000-5	88V	. 310502	.		.	.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PD NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
						L	A
							070 MIN
							N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1P42*MOV031A	RBCLCN HX DISCH XOVER					*H,M	*B
	VELAN	1E	L-02	88V-03			*180 DYS
	LIMITORQUE		RBS	56.*FT/IJ			
	SMB-000-5	88V	310502				
						L	*A
							*070 MIN
							N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1P42*MOV031B	RBCLCN HX DISCH XOVER					*H,M	*B
	VELAN	1E	L-02	88V-03			*180 DYS
	LIMITORQUE		RBS	59. FT/IJ			
	SMB-000-5	88V	310502				
						L	*A
							*070 MIN
							N/A
	MOT:RELIANCE /INS CL: /460VAC						
.1P42*MOV032A	RBCLCN PP DISCH XOVER VV					*H,M	*B
	VELAN	1E	H-18	*88V-03			*180 DYS
	LIMITORQUE		RBS	150. EQ			
	SMB-000-5	88V	310502				
						L	*A
							*070 MIN
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV032B	RBCLCN PP DISCH XOVER VV					*H,M	*B
	VELAN	1E	H-18	*88V-03			*180 DYS
	LIMITORQUE		RBS	150. EQ			
	SMB-000-5	88V	310502				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
						L	.*A
							.*070 MIN
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV033A	RBCLCW ISOL VALVE					*H,M	.*B
	VELAN	1E	H-18		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	150.	EQ		
	SMB-000-5	88V	310502				
						L	.*A
							.*070 MIN
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV033B	RBCLCW ISOL VALVE					*H,M	.*B
	VELAN	1E	H-18		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	150.	EQ		
	SMB-000-5	88V	310502				
						L	.*A
							.*070 MIN
							N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV034A	RBCLCW ISOL VALVE					*H,M	.*B
	VELAN	1E	P-14		.*88V-03		.*180 DYS
	LIMITORQUE		RBS	126.	EQ		
	SMB-000-5	88V	310502				
						*L	.*A
							.*070 MIN
	MOT:RELIANCE /INS CL:B /460VAC						
.1P42*MOV034B	RBCLCW ISOL VALVE					*H,M	.*B
	VELAN	1E	P-14		*88V-03		.*180 DYS
	LIMITORQUE		RBS	126.	EQ		
	SMB-000-5	88V	310502				

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

RESET NO. 004
RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV035	RBCLCW INLET TO P-1A COOLERS		.		*H,M	.*A
	VELAN	1E	. G-03	.*88V-03 .		.*070 MIN
	LIMITORQUE		. RBS	67. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV036	RBCLCW OUTLET FROM P-1A		.		*H,M	.*A
	VELAN	1E	. G-03	.*88V-03 .		.*070 MIN
	LIMITORQUE		. RBS	67. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV043A	MG SET FL CPLG INLET VV		.		*H,M	.*B
	VELAN	1E	. L-02	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	56. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV043B	MG SET FL CPLG INLET VV		.		*H,M	.*B
	VELAN	1E	. L-02	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	54. EQ .		.
	SMB-000-5	88V	. 310502	. .		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
			.		L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV044A	MG SET FL CPLG INLET VV		.		*H,M	.*B
	VELAN	1E	. L-02	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	56. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV044B	MG SET FL CPLG INLET VV		.		*H,M	.*B
	VELAN	1E	. L-02	.*88V-03 .		.*180 DYS
	LIMITORQUE		. RBS	54. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			. N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV047	RECLCN INLET TO P-1B COOLERS		.		*H,M	.*A
	VELAN	1E	. G-03	.*88V-03 .		.*070 MIN
	LIMITORQUE		. RBS	60. EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV048	RECLCN OUTLET FROM P-1B		.		*H,M	.*A
	VELAN	1E	. G-03	.*88V-03 .		.*070 MIN
	LIMITORQUE		. RBS	68. EQ .		.
	SMB-000-5	88V	. 310502	. .		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMS	OPER CODE
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:RELIANCE /INS CL:B /460VAC					
.1P42*MOV147	DRYWELL COOLER OUTLET VV		.		*H,M	.*B
	VELAN	1E	. D-22	.*88V-01 .		.*180 DYS
	LIMITORQUE		. RBD 00074.	EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.	MST	. N/A
	MOT:RELIANCE /INS CL:RH/460VAC					
.1P42*MOV148	DRYWELL COOLER OUTLET VV		.		*H,M	.*B
	VELAN	1E	. D-22	.*88V-01 .		.*180 DYS
	LIMITORQUE		. RBD 00074.	EQ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.	MST	. N/A
	MOT:RELIANCE /INS CL:RH/460VAC					
.1P42*MOV231	OUT.VV TO DRYWELL COOLER	17B	.		*H,M	.*B
	VELAN	1E	. G-07	.* .		.*180 DYS
	LIMITORQUE		. RBS 66.	FT/IJ .		.
	SMB-000-5	88V	. 310502	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MOT:PARAMOUNT /INS CL:B /460VAC					
.1P42*MOV232	IN.VV TO DRYWELL COOLER	17A	.		*H,M	.*B
	VELAN	1E	. G-03	.* .		.*180 DYS
	LIMITORQUE		. RBS 67.	FT/IJ .		.
	SMB-000-5	88V	. 310502	. .		.

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
PROJECT EQUIPMENT SYSTEM - (IS-129)
ENVIRONMENTAL QUALIFICATION STATUS REPORT
SORTED BY - MAK / MOD / SPEC

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RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.		L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC					
1T48*MOV038A	ATMOS OTBD CONT ISO		.		H,M	. B
	VELAN	1E	. L-02 .	.		. 180 DYS
	LIMITORQUE		. RBS	51. FT/IJ .		.
	SMB-000-5	80V	. 310502 .	.		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MOT:PEERLESS /INS CL:B /460VAC					
1T48*MOV038B	ATMOS OTBD CONT ISO		.		H,M	. B
	VELAN	1E	. L-02 .	.		. 180 DYS
	LIMITORQUE		. RBS	51. FT/IJ .		.
	SMB-000-5	80V	. 310502 .	.		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MOT:PEERLESS /INS CL: /460VAC					
.1T48*MOV041	RELEASE TO ATMOS		.		H,M	. B
	VELAN	1E	. J-15 .	.		. 180 DYS
	LIMITORQUE		. RBS	112.*FT/IJ .		.
	SMB-000-5	80V	. 310502 .	.		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			. N/A
	MOT:PEERLESS /INS CL:B /460VAC					
.1T48*MOV042	RELEASE TO ATMOS		.		H,M	. B
	VELAN	1E	. K-15 .	.		. 180 DYS
	LIMITORQUE		. RBS	112.*FT/IJ .		.
	SMB-000-5	80V	. 310502 .	.		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / MU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1T48*MOV043A	ATMOS OTBD CONT ISO		.			H,M	. B
	VELAN	1E	. G-03	.*	.		. 180 DYS
	LIMITORQUE		. RBS	68. FT/IJ	.		.
	SMB-000-5	88V	. 310502	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			. N/A
	MOT:RELIANCE /INS CL:B /460VAC						
.1T48*MOV043B	ATMOS OTBD CONT ISO		.			H,M	. B
	VELAN	1E	. G-03	.*	.		. 180 DYS
	LIMITORQUE		. RBS	73. FT/IJ	.		.
	SMB-000-5	88V	. 310502	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1T48*MOV044A	ATMOS OTBD CONT ISO		.			H,M	. B
	VELAN	1E	. L-02	.*	.		. 180 DYS
	LIMITORQUE		. RBS	51. FT/IJ	.		.
	SMB-000-5	88V	. 310502	.	.		.
			.			L	. A
			. .	.			. 180 DYS
			. .	.			.
			. .	.			. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1T48*MOV044B	ATMOS OTBD CONT ISO		.			H,M	. B
	VELAN	1E	. L-02	.*	.		. 180 DYS
	LIMITORQUE		. RBS	51. FT/IJ	.		.
	SMB-000-5	88V	. 310502	.	.		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MOT:PARAMOUNT /INS CL:B /460VAC						
.1E41*MOV093	HPCI STM TO TURB NEAR COL C-8		.			H,M	. A
E41-F001	VELAN	1E	. G-01	.*	.		. 012 HRS
	LIMITORQUE		. REP	00019.	*FT/IJ .		.
	SMB-1-15	88V	. 310502	.	.		.
			.			L	. A
			.	.	.		. 012 HRS
			.	.	.		.
			.	.	.		.
	MOT:LIMITORQUE/INS CL:H /125VDC						
1E41*MOV037	HPCI P DIS TO COND STOR C-7		.			H,M	. A
E41-F008	VELAN	1E	. G-01	.	.		. 070 MIN
	LIMITORQUE		. RBS	18.	FT/IJ .		.
	SMB-1-25	88V	. 310502	.	.		.
			.			L	. A
			.	.	.		. 012 HRS
			.	.	.		.
			.	.	.		.
	MOT:PORT FEER /INS CL: /125VDC						
.1B21*MOV035A	REAC FEEDNTR INLET PIPE TUNNEL.					H,M	. B
B21-F032A	ANCHOR DARLIN	1E	. T-08	.*88V-03	.		. 180 DYS
	LIMITORQUE		. RBS	78.	EQ .		.
	SMB-1-40	88AD	. 310501	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. NA
	MOT:RELIANCE/INS CL:B /460VAC						
.1B21*MOV035B	REAC FEEDNTR INLET PIPE TUNNEL.					H,M	. B
B21-F032B	ANCHOR DARLIN	1E	. T-03	.*88V-03	.		. 180 DYS
	LIMITORQUE		. RBS	78.	EQ .		.
	SMB-1-40	88AD	. 310501	.	.		.

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT REVISION NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	B
						180 DYS
						NA
	MOT:RELIANCE/INS CL:B /460VAC					
.1E21*MOV035B	CORE SPRAY P RECIRC NEAR	C-4			H,M	B
E21-F015B	ANCHOR DARLIN	1E	G-02	.*		180 DYS
	LIMITORQUE		RBS	53.*FT/IJ		
	SMB-1-40	88AD	310501			
					L	A
						070 MIN
						NA
	MOT:LIMITORQUE/INS CL: /460VAC					
1E41*MOV038	HPCI P DIS TO COND STOR	C-7			H,M	A
E41-F011	VELAN	1E	G-01			070 MIN
	LIMITORQUE		RBS	18. FT/IJ		
	SMB-1-40	88V	310502			
					L	A
						012 HRS
	MOT:PORT PEER /INS CL:B /125VDC					
.1E21*MOV035A	CORE SPRAY P RECIRC NEAR	C-10			H,M	B
E21-F015A	ANCHOR DARLIN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	53. EQ		
	SMB-1-60	88AD	310501			
					L	A
						070 MIN
						NA
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV033A	RHR HX SHELL INLET NR COL	C-10.			H,M	B
E11-F047A	VELAN	1E	G-01	.*88V-03		180 DYS
	LIMITORQUE		RBS	22.*EQ		
	SMB-1-60	88V	310502			

REPORT NO. PES-001 STONE AND WEBSTER ENGINEERING CORPORATION
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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
						L	A
							180 DYS
							NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV033B	RHR HX SHELL INLET NR COL C-6		G-01	.*		H,M	B
E11-F047B	VELAN	1E	RBS	22.*FT/IJ			180 DYS
	LIMITORQUE		310502				
	SMB-1-60	88V					
						L	A
							180 DYS
							NA
	MOT:RELIANCE /INS CL: /460VAC						
.1E11*MOV035A	RHR HX SHELL OUTLET NEAR C-11		G-01	.*88V-03		H,M	B
E11-F003A	VELAN	1E	RBS	30. EQ			180 DYS
	LIMITORQUE		310502				
	SMB-1-60	88V					
						L	A
							180 DYS
							NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV035B	RHR HX SHELL OUTLET NEAR C-5		G-01	.*88V-03		H,M	B
E11-F003B	VELAN	1E	RBS	30. EQ			180 DYS
	LIMITORQUE		310502				
	SMB-1-60	88V					
						L	A
							180 DYS
							NA
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV040A	RHR FLOW TO SUPP POOL NR C-11		G-03	.*88V-03		H,M	A
E11-F022A	VELAN	1E	RBS	72. EQ			180 DYS
	LIMITORQUE		310502				
	SMB-1-60	88V					

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV040B	RHR FLOW TO SUPP POOL NR	C-5				H,M	A
E11-F028B	VELAN	1E	G-07	.*			180 DYS
	LINITORQUE		RBS	72.*FT/IJ			
	SMB-1-60	88V	310502				
						L	A
							180 DYS
	MOT:PORT PEER /INS CL:B /460VAC						
.1E41*MOV042	RPCI STM TO TURB NEAR COL	C-8				H,M	A
E41-F003	VELAN	1E	G-03	.*88V-02			012 HRS
	LINITORQUE		RBS	63. QG			
	SMB-1-60	88V	310502				
						L	A
							012 HRS
	MOT:PORT PEER /INS CL:RH/125VDC						
.1N11*MOV031A	2ND STAGE REHEAT STM					H,M	B
MOV-RSSV-1	VELAN	1E	ST	.*88V-03			180 DYS
	LINITORQUE		ST	50. EQ			
	SMB-1-60	88V	310502				
						L	A
							070 MIN
	MOT:RELIANCE /INS CL:B /460VAC						N/A
.1N11*MOV031B	2ND STAGE REHEAT STM					H,M	B
MOV-RSSV-2	VELAN	1E	ST	.*88V-03			180 DYS
	LINITORQUE		ST	50. EQ			
	SMB-1-60	88V	310502				

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					L	A
						070 MIN
						N/A
	MOT:RELIANCE /INS CL:B /460VAC					
.1B31*MOV031A	RECIRC PUMP SUCTION NN DRYWELL.				H,M	B
B31-F023A	GENERAL ELEC	1E	D-22	.*		180 DYS
	LIMITORQUE		RBD	66. RR/IJ		
	SMD-2	003	310010			
					L	B
						180 DYS
					MST	
	MOT:RELIANCE/INS CL:RH/460VAC					
.1B31*MOV031B	RECIRC PUMP SUCTION SE DRYWELL.				H,M	B
B31-F023B	GENERAL ELEC	1E	D-22	.*		180 DYS
	LIMITORQUE		RBD	66. RR/IJ		
	SMD-2	003	310010			
					L	B
						180 DYS
					MST	
	MOT:RELIANCE/INS CL: /460VAC					
.1E11*MOV038A	RHR CONT SPRAY HDR NR COL C-11.				H,M	A
E11-F016A	ANCHOR DARLIN	1E	G-10	.*88V-03		070 MIN
	LIMITORQUE		RBS	103. EQ		
	SMD-2-60	88AD	310501			
					L	A
						180 DYS
	MOT:RELIANCE /INS CL:B /460VAC					
.1E11*MOV038B	RHR CONT SPRAY HDR NR COL C-5 .				H,M	A
E11-F016B	ANCHOR DARLIN	1E	G-11	.*88V-03		070 MIN
	LIMITORQUE		RBS	103. EQ		
	SMD-2-60	88AD	310501			

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
						L	A
							180 DYS
	MOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV047	RHR SUCT FM RECIRC SE DRYWELL					H,M	A
E11-F009	ANCHOR DARLIN	1E	D-22		*88V-01		180 DYS
	LIMITORQUE		RBD	84.	*EQ		
	SMB-2-60	88AD	310501				
						L	A
							070 MIN
	MOT:LIMITORQUE/INS CL:RH/460VAC						
1E11*MOV048	RHR SUCT FROM RECIRC PIPE C-11					H,M	A
E11-F008	ANCHOR DARLIN	1E	G-03				180 DYS
	LIMITORQUE		RBS	63.	FT/IJ		
	SMB-2-60	88AD	310501				
						L	A
							070 MIN
	MOT:PORT PEER /INS CL:B /125VDC						
.1E11*MOV050	RHR MAIN FLOW CROSSOVER C-5					H,M	B
E11-F010	VELAN	1E	G-03		*88V-03		180 DYS
	LIMITORQUE		RBS	72.	EQ		
	SMB-2-60	88V	310502				
						L	B
							180 DYS
	MOT:RELIANCE /INS CL:B /460VAC						
1E41*MOV034	HPCI PP DISCH NR C-9					H,M	A
E41-F007	VELAN	1E	G-05				012 HRS
	LIMITORQUE		RBS	63.	FT/IJ		
	SMB-2-60	88V	310502				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
					L	A
						012 HRS
	MOT:PORT PEER /INS CL:B /125VDC					
.1E11*MOV049	FW HPCI TURB INLET LINE C-8				L	B
E11-F052	VELAN	1E	G-03	*88V-03		180 DYS
	LIMITORQUE		RBS 66.	EQ		
	SMB-2-80	88V	310502			N/A
	MOT:RELIANCE /INS CL:RH/460VAC					
.1E21*MOV033A	CORE SPRAY P DISCH NR COL C-10				H,M	B
E21-F005A	VELAN	1E	G-09	.*		180 DYS
	LIMITORQUE		RBS 104.	FT/IJ		
	SMB-2-80	88V	310502			
					L	A
						180 DYS
						N/A
	MOT:PORT PEER /INS CL:B /460VAC					
.1E21*MOV033B	CORE SPRAY P DISCH NR COL C-6				H,M	B
E21-F005B	VELAN	1E	G-12	.*		180 DYS
	LIMITORQUE		RBS 104.	FT/IJ		
	SMB-2-80	88V	310502			
					L	A
						180 DYS
						N/A
	MOT:PORT PEER /INS CL:B /460VAC					
1B31*MOV032A	RECIRC PUMP DISCHRG NW DRYWELL				H,M	B
B31-F031A	GENERAL ELEC	1E	D-22	003-01		180 DYS
	LIMITORQUE		RBD 70.	RR/IJ		
	SMB-3	003	310010			
					L	A
						070 MIN
	MOT:RELIANCE/INS CL:RH/460VAC				NST	

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
1B31*MOV032B	RECIRC PUMP DISCHRG SE DRYWELL.				H,M	. B
B31-F031B	GENERAL ELEC	1E	. D-22	. 003-01 .		. 180 DYS
	LIMITORQUE		. RB0	70. RR/IJ .		.
	SMB-3	003	. 310010	. .		.
			.		L	. A
			.	. .		. 070 MIN
			.	. .		.
			.	. .	MST	.
	MOT:RELIANCE/INS CL:RH/460VAC					
.1E41*MOV035	HPCI PP DISCH NR C-9		.		H,M	. A
E41-F006	ANCHOR DARLIN	1E	. G-02	. .		. 012 HRS
	LIMITORQUE		. RB5	63.*FT/IJ .		.
	SMB-3-100	08AD	. 310501	. .		.
			.		L	. A
			.	. .		. 012 HRS
			.	. .		.
			.	. .		.
	MOT:PORT PEER /INS CL:B /125VDC					
.1E11*MOV034A	RHR HX SHELL BYPASS NEAR C-12		.		H,M	. A
E11-F049A	ANCHOR DARLIN	1E	. G-01	.* .		. 180 DYS
	LIMITORQUE		. RB5	27. FT/IJ .		.
	SMB-3-150	08AD	. 310501	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
	MOT:ELECT APP /INS CL:B /460VAC					
.1E11*MOV049B	RHR HX SHELL BYPASS NEAR C-4		.		H,M	. A
E11-F049B	ANCHOR DARLIN	1E	. G-01	.* .		. 180 DYS
	LIMITORQUE		. RB5	22. FT/IJ .		.
	SMB-3-150	08AD	. 310501	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
	MOT:ELECT APP /INS CL:B /460VAC					

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / NAME / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*MOV042A	RHR FL TO SUP POOL NR COL C-11.					H,M	B
E11-F024A	ANCHOR DARLIN	1E	G-01		.*88V-03		180 DYS
	LIMITORQUE		RDS	29.	EQ		
	SMB-3-80	88AD	310501				
						L	A
							180 DYS
							NA
	NOT:RELIANCE /INS CL:B /460VAC						
.1E11*MOV042B	RHR FL TO SUP POOL NR COL C-5					H,M	B
E11-F024B	ANCHOR DARLIN	1E	G-01		.*88V-03		180 DYS
	LIMITORQUE		RDS	29.	EQ		
	SMB-3-80	88AD	310501				
						L	A
							180 DYS
							NA
	NOT:RELIANCE /INS CL:B /460VAC						
.1E41*MOV041	HPCI STM TO TURB NRTH DRYWELL					H,M	A
E41-F002	VELAN	1E	D-22		.*88V-01		012 HRS
	LIMITORQUE		RDD	66.	EQ		
	SMB-3-80	88V	310502				
						L	A
							012 HRS
	NOT:RELIANCE /INS CL:RH/460VAC						
.1E11*MOV036A	RHR OUTBOARD VV NR COLUMN C-11.					H,M	A
E11-F017A	ANCHOR DARLIN	1E	G-03		.*		180 DYS
	LIMITORQUE		RBS	72.	FT/IJ		
	SMB-4-200	88AD	310501				
						L	A
							180 DYS
	NOT:ELECT APP /INS CL:B /460VAC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E11*MOV036B	RHR OUTBOARD VV NR COLUMN C-5				H,M	A
E11-F017B	ANCHOR DARLIN	1E	G-03	.*		180 DYS
	LIMITORQUE		RBS	72. FT/IJ		
	SMB-4-200	08AD	310501			
					L	A
						180 DYS
	MOT:ELECT APP /INS CL:B /460VAC					
.1E32*MOV022A	LCS INBOARD PROCESS VLV				H,M	B
E32-F002B	VELAN	1E	T-09	.*		100 DYS
	LIMITORQUE		RBS	00078.*FT/IJ		
	SMC-04-3	253	310512			
					L	A
						100 DYS
						N/A
	MOT:LIMITORQUE/INS CL:B /460VAC					
.1E32*MOV022D	LCS INBOARD PROCESS VLV				H,M	B
E32-F002F	VELAN	1E	T-09	.*		100 DYS
	LIMITORQUE		RBS	00078.*FT/IJ		
	SMC-04-3	253	310512			
					L	A
						100 DYS
						N/A
	MOT:LIMITORQUE/INS CL:B /460VAC					
.1E32*MOV022C	LCS INBOARD PROCESS VLV				H,M	B
E32-F002K	VELAN	1E	T-09	.*		100 DYS
	LIMITORQUE		RBS	00078.*FT/IJ		
	SMC-04-3	253	310512			
					L	A
						100 DYS
						N/A
	MOT:LIMITORQUE/INS CL:B /460VAC					

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.1E32*MOV022D E32-F002P	LCS INBOARD PROCESS VLV VELAN LIMITORQUE SMC-04-3	1E 253	T-08 RBS 310512	.* 00078.*FT/IJ		H,M L	B 180 DYS A 100 DYS N/A
	MOT:LIMITORQUE/INS CL:B /460VAC						
.1E32*MOV023A E32-F003D	LCS INBOARD BYPASS VLV VELAN LIMITORQUE SMC-04-3	1E 253	G-06 RBS 310512	.* 00064.*FT/IJ		H,M L	B 180 DYS A 100 DYS N/A
	MOT:LIMITORQUE/INS CL:B /460VAC						
.1E32*MOV023B E32-F003F	LCS INBOARD BYPASS VLV VELAN LIMITORQUE SMC-04-3	1E 253	G-06 RBS 310512	.* 00064.*FT/IJ		H,M L	B 180 DYS A 100 DYS N/A
	MOT:LIMITORQUE/INS CL:B /460VAC						
.1E32*MOV023C E32-F003K	LCS INBOARD BYPASS VLV VELAN LIMITORQUE SMC-04-3	1E 253	G-06 RBS 310512	.* 00064.*FT/IJ		H,M L	B 180 DYS A 100 DYS N/A
	MOT:LIMITORQUE/INS CL:B /460VAC						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG ELEV PO NUMBER	EQ SHEET QUAL STAT	EMG COND SUBMG	OPER CODE
.1E32*MOV023D	LCS INBOARD BYPASS VLV				H,M	B
E32-F003P	VELAN	1E	G-06 .*			180 DYS
	LIMITORQUE		RBS 00064.*FT/IJ			
	SMC-04-3	253	310512			
					L	A
						100 DYS
						N/A
	NOT:LIMITORQUE/INS CL:B /460VAC					
.1E32*MOV021A	LCS INBOARD PROCESS VLV				H,M	B
E32-F001B	VELAN	1E	T-08 .*			180 DYS
	LIMITORQUE		RBS 00078.*FT/IJ			
	SMC-04-5	253	310512			
					L	A
						100 DYS
						N/A
	NOT:LIMITORQUE/INS CL:B /460VAC					
.1E32*MOV021B	LCS INBOARD PROCESS VLV				H,M	B
E32-F001F	VELAN	1E	T-08 .*			180 DYS
	LIMITORQUE		RBS 00078.*FT/IJ			
	SMC-04-5	253	310512			
					L	A
						100 DYS
						N/A
	NOT:LIMITORQUE/INS CL:B /460VAC					
.1E32*MOV021C	LCS INBOARD PROCESS VLV				H,M	B
E32-F001K	VELAN	1E	T-08 .*			180 DYS
	LIMITORQUE		RBS 00078.*FT/IJ			
	SMC-04-5	253	310512			
					L	A
						100 DYS
						N/A
	NOT:LIMITORQUE/INS CL:B /460VAC					

REPORT NO. PES-001 STONE AND WEBSTER ENGINEERING CORPORATION
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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1E32*MOV021D	LCS INBOARD PROCESS VLV				H,M	B
E32-F001P	VELAN	1E	T-08	.*		180 DYS
	LIMITORQUE		RBS	00078.*FT/IJ		
	SMC-04-5	253	310512			
					L	A
						100 DYS
						N/A

MOT:LIMITORQUE/INS CL:B /460VAC

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REPORT GROUP MAK = LOUIS ALLIS						
1R24*MG111	480V MOTOR GENERATOR (RED)				ALL	A
	LOUIS ALLIS	1E	N-21	439-01		180 DYS
	LOUIS ALLIS		RBS 150.	EQ		
	COGSF	439	310950			NA
1R24*MG112	480V MOTOR GENERATOR (BLUE)				ALL	A
	LOUIS ALLIS	1E	N-21	439-01		180 DYS
	LOUIS ALLIS		RBS 150.	EQ		
	COGSF	439	310950			NA
1R24*MG113A	480V MOTOR GENERATOR (ORANGE)				ALL	A
	LOUIS ALLIS	1E	N-21	439-01		180 DYS
	LOUIS ALLIS		RBS 150.	EQ		
	COGSF	439	310950			NA
1R24*MG113B	480V MOTOR GENERATOR (ORANGE)				ALL	A
	LOUIS ALLIS	1E	N-21	439-01		180 DYS
	LOUIS ALLIS		RBS 150.	EQ		
	COGSF	439	310950			NA

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REPORT GROUP MAK = MAGNETICS

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1R35*T-B2	480-120/240V TRANS	.	.			ALL	. A
	MAGNETICS	1E	. N-21		. 248-01 .		. 180 DYS
	MAGNETICS		. RBS	112.	EQ .		.
	L-12514	248	. 310739		. .		.
1R35*T-R2	480-120/240V TRANS	.	.			ALL	. A
	MAGNETICS	1E	. N-21		. 248-01 .		. 180 DYS
	MAGNETICS		. RBS	112.	EQ .		.
	L-12514	248	. 310739		. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
REPORT GROUP MAK	= MAGNETROL						
.1P42*LS012A	LS ON TK 026A		.			*H,M	.*A
	MAGNETROL	1E	. H-18		. 407-01 .		.*070 MIN
	MAGNETROL		. RBS	00160.	*FT/IJ .		.
	291-MPG-X-M14DC	407	. 10042		. .		. *1% SP
			.			*L	.*A
			.		. .		.*070 MIN
			.		. .		.
			.		. .		.
.1P42*LS012B	RBCLCN TK-026B		.			*H,M	.*A
	MAGNETROL	1E	. H-18		. 407-01 .		.*180 DYS
	MAGNETROL		. RBS	00160.	*FT/IJ .		.
	291-MPG-X-M14DC	407	. 10042		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1P42*LS013A	1P42-TK-026A HEAD TK LEVEL		.			*H,M	.*A
	MAGNETROL	1E	. H-18		. 407-01 .		.*180 DYS
	MAGNETROL		. RBS	00160.	*FT/IJ .		.
	291-MPG-X-M14DC	407	. 10042		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1P42*LS013B	TK-026A HEAD TK LVL		.			*H,M	.*A
	MAGNETROL	1E	. H-18		. 407-01 .		.*180 DYS
	MAGNETROL		. RBS	00160.	*FT/IJ .		.
	291-MPG-X-M14DC	407	. 10042		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.

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.1T48*LS061A	COND LEVEL				H,M	B
	MAGNETROL	1E	G-03	407-01		180 DYS
	MAGNETROL		RBS	63.*FT/IJ		
	291-MPG-X-M14DC	407	10042			
					L	B
						180 DYS
.1T48*LS061B	COND LEVEL				H,M	B
	MAGNETROL	1E	G-10	407-01		180 DYS
	MAGNETROL		RBS	78.*FT/IJ		
	291-MPG-X-M14DC	407	10042			
					L	B
						180 DYS
1E41*LS090A	SUPPRESSION POOL				H,M	A
E41-N015A	G.E.	1E	G-01	3143		012 HRS
	MAGNETROL		RBS	00008. EQ		
	3.5-751-1X-MPG-M14HY	003	310010			
					L	A
						012 HRS
1E41*LS090B	SUPPRESSION POOL				H,M	A
E41-N015B	G.E.	1E	G-01	3143		012 HRS
	MAGNETROL		RBS	00008. EQ		
	3.5-751-1X-MPG-M14HY	003	310010			
					L	A
						012 HRS
.1E51*LS091	RCIC STN DRN POT				*H,M	.*B
E51-N010	GENERAL ELEC	1E	G-01	.*3143		.*180 DYS
	*MAGNETROL		RBS	00008.*EQ		
	*3.0-751-2X-MPG-M14HY	003	310010			*0.5 IN

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
					*L	.*B
						.*180 DYS
						.
						. *0.5 IN

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
REPORT GROUP MAK	= MARSH GAGE					
.1D11-PI041	STATION VENT EXHAUST				H,H	A
	N.M.C.	2E	H-20			180 DYS
	*MARSH GAGE	*	RBS 00175	*IJ		
	*M0212	332	310782			
					L	A
						180 DYS

CAT. II EQUIPMENT NOT 1E POWERED

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JOB CLIENT LILCO

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REPORT GROUP MAK = NAMCO

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.1C11*PNS081 C11-F010	1C11*AOV001 POSITION *GENERAL ELECT *NAMCO	*1E 003	.*G-01 .*RBS *00078. . 310010	. *DR/IJ .	H,H L	. A . 070 MIN . A . 070 MIN
.1C11*PNS082 C11-F011	1C11*AOV002 POSITION *GENERAL ELECT *NAMCO	*1E 003	.*G-05 .*RBS *00040. . 310010	. *DR/IJ .	H,H L	. A . 070 MIN . A . 070 MIN
.1E41*PNS840 LS-1,2	1E41*HOV-052 POSITION GENERAL ELEC NAMCO D1200	1E 003	. G-01 . RBS 00008. . 310010	. TA/IJ .	H,H L	. B . 180 DYS . B . 180 DYS
.1E41*PNS841 LS 3,4	1E41*HOV-051 POSITION GENERAL ELEC NAMCO D1200	1E 003	. G-01 . RBS 00008. . 310010	. TA/IJ .	H,H L	. A . 012 HRS . A . 012 HRS

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.1E21*PNS071A	1E21*HCV071A POSITION SW		.			H,M	. B
	NAMCO	1E	. J-16	.*088-01	.		. 180 DYS
	NAMCO		. RBS 00131.	*EQ	.		.
	EA180-11302	FIELD.	F-347565	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MARK NO. REPRESENTS 2 SWITCHES						
.1E21*PNS071B	1E21*HCV071B POSITION SW		.			H,M	. B
	NAMCO	1E	. B-22	.*088-01	.		. 180 DYS
	NAMCO		. RBS 00131.	*EQ	.		.
	EA180-11302	FIELD.	F-347565	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		. N/A
	MARK NO. REPRESENTS 2 SWITCHES						
1E11*PNS031C	POS SN ON 1E11*MOV031C		.			ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01	.		. 180 DYS
	NAMCO		. RBS 24.	EQ	.		.
	EA180-11302	088	. 347565	.	.		. N/A
1E11*PNS032B	POS SN ON 1E11*MOV032B		.			ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01	.		. 180 DYS
	NAMCO		. RBS 10.	EQ	.		.
	EA180-11302	088	. 347565	.	.		. N/A
1E11*PNS032C	POS SN ON 1E11*MOV032C		.			ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01	.		. 180 DYS
	NAMCO		. RBS 20.	EQ	.		.
	EA180-11302	088	. 347565	.	.		. N/A
.1E11*PNS047	1E11*MOV047 POSITION SW		.			ALL	. A
	NAMCO CONTROLS	*1E	. D-22	. 088-01	.		. 180 DYS
	NAMCO		. RBD *00084.	EQ	.		.
	EA180-11302	088	. 347565	.	.		. N/A
.1E11*PNS071A	1E11-HV071A POSITION		.			H,M	. B
	NAMCO	1E	. D-22	.*088-01	.		. 180 DYS
	NAMCO		. RBP *00080.	*EQ	.		.
	EA180-31302	FIELD.	F-347565	.	.		.

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			.		L	. B
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 2 SWITCHES					
.1E11*PNS071B	1E11-HV071B POSITION		.		H,M	. B
	NAMCO	1E	. D-22	.*088-01 .		. 180 DYS
	NAMCO		. REP *00080.	*EQ .		.
	EA180-31302	FIELD.	F-347565	. .		.
			.		L	. B
			. . .			. 180 DYS
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 2 SWITCHES					
1E11*PNS031A	POS SW ON 1E11*MOV031A		.		ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01 .		. 180 DYS
	NAMCO		. RBS	24. EQ .		.
	EA180-31302	088	. 347565	. .		. N/A
1E11*PNS031B	POS SW ON 1E11*MOV031B		.		ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01 .		. 180 DYS
	NAMCO		. RBS	24. EQ .		.
	EA180-31302	088	. 347565	. .		. N/A
1E11*PNS031D	POS SW ON 1E11*MOV031D		.		ALL	. A
	NAMCO CONTROLS	1E	. G-01	. 088-01 .		. 180 DYS
	NAMCO		. RBS	24. EQ .		.
	EA180-31302	088	. 347565	. .		. N/A
.1E11*PNS032A	POS SW ON 1E11*MOV032A		.		ALL	. A
	*NAMCO CONTROLS	1E	. G-01	. 088-01 .		. 180 DYS
	NAMCO		. RBS	15. EQ .		.
	EA180-31302	088	. 347565	. .		. N/A
.1E11*PNS032D	POS SW ON 1E11*MOV032D		.		ALL	. A
	*NAMCO CONTROLS	1E	. G-01	. 088-01 .		. 180 DYS
	NAMCO		. RBS	19. EQ .		.
	EA180-31302	088	. 347565	. .		. N/A
.1E11*PNS043	1E11*MOV033 POSITION SW		.		ALL	. A
	NAMCO CONTROLS	*1E	. G-03	. 088-01 .		. 180 DYS
	NAMCO		. RBS *00063.	EQ .		.
	EA180-31302	088	. 347565	. .		. N/A

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG PO NUMBER	ELEV	EQ SHEET QUAL STAT	ENG COND SUBMS	OPER CODE
1E11*PNS050	POS SW ON 1E11*MOV050					ALL	A
	NAMCO CONTROLS	1E	G-07		088-01		180 DYS
	NAMCO		RBS	72.	EQ		
	EA180-31302	088	347565				N/A
1E11*PNS037A	POS SW ON 1E11*MOV037A					ALL	A
	NAMCO CONTROLS	1E	G-03		088-01		180 DYS
	NAMCO		RBS	72.	EQ		
	EA180-32302	088	347565				N/A
1E11*PNS037B	POS SW ON 1E11*MOV037B					ALL	A
	NAMCO CONTROLS	1E	G-07		088-01		180 DYS
	NAMCO		RBS	72.	EQ		
	EA180-32302	088	347565				N/A
1E11*PNS040A	POS SW ON 1E11*MOV040A					ALL	A
	VELAN	1E	G-03		088-01		180 DYS
	NAMCO		RBS	72.	EQ		
	EA180-32302	088	347565				N/A
1E11*PNS040B	POS SW ON 1E11*MOV040B					ALL	A
	VELAN	1E	G-07		088-01		180 DYS
	NAMCO		RBS	72.	EQ		
	EA180-32302	088	347565				N/A
.1T46*PNS035A	RBSVS INITIATION SIGNAL					*H,M	.*A
	FISHER CONTROLS	1E	G-01				.*070 MIN
	NAMCO		RBS	00112.	*RR		
	EA740-20001	111	310655				
						*L	.*A
							.*070 MIN
	MARK NO. REPRESENTS 6 SWITCHES						
.1T46*PNS035B	RBSVS INITIATION SIGNAL					*H,M	.*A
	FISHER CONTROLS	1E	G-01				.*070 MIN
	NAMCO		RBS	00112.	*RR		
	EA740-20001	111	310655				
						*L	.*A
							.*070 MIN
	MARK NO. REPRESENTS 6 SWITCHES						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENS COND / SUBNG	OPER CODE
.1T46*PNS037A	RBSVS INITIATION SIGNAL				*H,M	.*A
	FISHER CONTROLS	1E	H-12			.*070 MIN
	NAMCO		RBS 00095.	*RR		
	EA740-20001	111	310655			
					*L	.*A
						.*070 MIN
	MARK NO. REPRESENTS 6 SWITCHES					
.1T46*PNS037B	RBSVS INITIATION SIGNAL				*H,M	.*A
	FISHER CONTROLS	1E	H-12			.*070 MIN
	NAMCO		RBS 00095.	*RR		
	EA740-20001	111	310655			
					*L	.*A
						.*070 MIN
	MARK NO. REPRESENTS 6 SWITCHES					
.1T46*PNS038A	PRI CONT PURGE VA 1T46*AOV038A.				*H,M	.*B
	FISHER CONTROLS	1E	D-22			.*180 DYS
	NAMCO		RBP 00078.	*RR		
	EA740-20001	172	310574			
					*L	.*A
						.*070 MIN
	MARK NO. REPRESENTS 4 SWITCHES					
.1T46*PNS038B	PRI CONT PURGE VA 1T46*AOV038B.				*H,M	.*B
	FISHER CONTROLS	1E	H-10			.*180 DYS
	NAMCO		RBS 00078.	*RR		
	EA740-20001	172	310574			
					*L	.*A
						.*070 MIN
	MARK NO. REPRESENTS 4 SWITCHES					

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.1T46*PNS038C	PRI CONT PURGE VA 1T46*AOV038C.					*L	.*A
	FISHER CONTROLS	1E	L-02	.	.		.*070 MIN
	NAMCO		RBS	00040.*RR	.		.
	EA740-20001	172	310574	.	.		.
	MARK NO. REPRESENTS 4 SWITCHES						
.1T46*PNS038D	PRI CONT PURGE VA 1T46*AOV038D.					*L	.*A
	FISHER CONTROLS	1E	L-07	.	.		.*070 MIN
	NAMCO		RBS	00040.*RR	.		.
	EA740-20001	172	310574	.	.		.
	MARK NO. REPRESENTS 4 SWITCHES						
.1T46*PNS039A	PRI CONTAINMENT PURGE VALVE	.				*L,M	.*B
	FISHER CONTROLS	1E	B-22	.	.		.*180 DYS
	NAMCO		RBP	00112.*RR	.		.
	EA740-20001	172	310574	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
	MARK NO. REPRESENTS 6 SWITCHES						
.1T46*PNS039B	PRI CONTAINMENT PURGE VALVE	.				*H,M	.*B
	FISHER CONTROLS	1E	K-15	.	.		.*180 DYS
	NAMCO		RBS	00112.*RR	.		.
	EA740-20001	172	310574	.	.		.
			.			*L	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
	MARK NO. REPRESENTS 6 SWITCHES						
.1T46*PNS039C	PRI CONTAINMENT PURGE VALVE	.				*L	.*A
	FISHER CONTROLS	1E	G-02	.	.		.*070 MIN
	NAMCO		RBS	00040.*RR	.		.
	EA740-20001	172	310574	.	.		.
	MARK NO. REPRESENTS 6 SWITCHES						
.1T46*PNS039D	PRI CONTAINMENT PURGE VALVE	.				*L	.*A
	FISHER CONTROLS	1E	G-02	.	.		.*070 MIN
	NAMCO		RBS	00040.*RR	.		.
	EA740-20001	172	310574	.	.		.
	MARK NO. REPRESENTS 6 SWITCHES						

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.1B21*PNS036A	REACTOR FW INLET AOV036A				H,M	B
	VELAN	1E	T-08	*232-01		180 DYS
	NAMCO		ST 00087	RR		
	EA740-20100	232	310595			
					L	A
						070 MIN
	MARK NO. REPRESENTS 2 SWITCHES CODE B FOR HELB & MELB					
.1B21*PNS036B	1B21*AOV036A POSITION				H,M	B
	VELAN	1E	T-08	*232-01		180 DYS
	NAMCO		ST 00087	RR		
	EA740-20100	232	310595			
					L	A
						070 MIN
	MARK NO. REPRESENTS 2 SWITCHES CODE B FOR HELB & MELB					
.1E11*PNS081A	RHR CHECK VALVE 1E11*AOV081A				ALL	B
	VELAN	1E	D-22	*232-02		180 DYS
	NAMCO		REP 00079	RR		
	EA740-20100	232	310595		MST	
	MARK NO. REPRESENTS 2 SWITCHES					
.1E11*PNS081B	RHR CHECK VALVE 1E11*AOV081B				ALL	B
	VELAN	1E	D-22	*232-02		180 DYS
	NAMCO		REP 00079	RR		
	EA740-20100	232	310595		MST	
	MARK NO. REPRESENTS 2 SWITCHES					
.1E21*PNS081A	CORE SPRAY HDR VA 1E21*AOV081A				L	B
	VELAN	1E	B-22	*232-02		180 DYS
	NAMCO		REP 00126	RR		
	EA740-20100	232	310512		MST	NA
	MARK NO. REPRESENTS 2 SWITCHES					
.1E21*PNS081B	CORE SPRAY HDR VA 1E21*AOV081B				L	B
	VELAN	1E	B-22	*232-02		180 DYS
	NAMCO		REP 00126	RR		
	EA740-20100	232	310512		MST	NA
	MARK NO. REPRESENTS 2 SWITCHES					

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.1P42*PNS282	RBCLCW RETURN CHECK VLV		.		*H,M	.*B
	VELAN	1E	. G-01	.*232-02 .		.*180 DYS
	NAMCO		. RBS 00016.	RR .		.
	EA740-20100	232	. 310595	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 2 SWITCHES					
.1P42*PNS293	RBCLCW RETURN CHECK VLV		.		*H,M	.*B
	VELAN	1E	. G-01	.*232-02 .		.*180 DYS
	NAMCO		. RBS 00039.	RR .		.
	EA740-20100	232	. 310595	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 2 SWITCHES					
.1P42*PNS294	RBCLCW RETURN CHECK VLV		.		*H,M	.*B
	VELAN	1E	. G-01	.*232-02 .		.*180 DYS
	NAMCO		. RBS 00039.	RR .		.
	EA740-20100	232	. 310595	. .		.
			.		*L	.*A
			. .	.		.*070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 2 SWITCHES					
.1B31*PNS081	1B31*AOV081 POS SW		.		H,M	. B
	COPES VULCAN	1E	. K-15	. .		. 180 DYS
	NAMCO		. RBS 00155.	*RR .		.
	EA740-20100	318	. 310735	. .		.
			.		L	. A
			. .	.		. 070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 4 SWITCHES					

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.1B31*PNS082	1B31*AOV082 POS SW		.		H,M	. B
	NAMCO	1E	. H-18	.		. 180 DYS
	NAMCO		. RBS 00155.*RR	.		.
	EA740-20100	318	. 310735	.		.
			.		L	. A
			. .	.		. 070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 4 SWITCHES					
.1E11*PNS061A	ON 1E11*AOV061A		.		ALL	. A
	COPES VULCAN	1E	. G-01	.		. 070 MIN
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 370964	.		. NA
	MARK NO. REPRESENTS 4 SWITCHES					
.1E11*PNS061B	ON 1E11*AOV061B		.		ALL	. A
	COPES VULCAN	1E	. G-01	.		. 070 MIN
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	.		. NA
	MARK NO. REPRESENTS 4 SWITCHES					
.1E11*PNS062A	ON 1E11*AOV062A		.		ALL	. A
	COPES VULCAN	1E	. G-01	.		. 070 MIN
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	.		. NA
	MARK NO. REPRESENTS 4 SWITCHES					
.1E11*PNS062B	ON 1E11*AOV062B		.		ALL	. A
	COPES VULCAN	1E	. G-01	.		. 070 MIN
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	.		. NA
	MARK NO. REPRESENTS 4 SWITCHES					
.1E41*PNS081	ON 1E41*AOV001		.		H,M	. A
	COPES VULCAN	1E	. G-01	.		. 070 MIN
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	.		.
			.		L	. A
			. .	.		. 070 MIN
			. .	.		.
			. .	.		.
	MARK NO. REPRESENTS 4 SWITCHES					

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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.1E41*PNS082	ON 1E41*AOV082					H,H	A
	COPES VULCAN	1E	G-01				070 MIN
	NAMCO		RBS	00008.*RR			
	EA740-20100	318	310735				
						L	A
							070 MIN
	MARK NO. REPRESENTS 4 SWITCHES						
.1E41*PNS083	ON 1E41*AOV083					H,H	A
	COPES VULCAN	1E	G-01				070 MIN
	NAMCO		RBS	00008.*RR			
	EA740-20100	318	310735				
						L	A
							070 MIN
	MARK NO. REPRESENTS 4 SWITCHES						
.1E41*PNS091	ON 1E41*LCV091					H,H	B
	COPES VULCAN	1E	G-01				180 DYS
	NAMCO		RBS	00008.*RR			
	EA740-20100	318	310735				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						
.1E41*PNS095	ON 1E41*LCV095					H,H	A
	COPES VULCAN	1E	G-01				070 MIN
	NAMCO		RBS	00008.*RR			
	EA740-20100	318	310735				
						L	A
							070 MIN
	MARK NO. REPRESENTS 4 SWITCHES						

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
.1E51*PNS081	ON 1E51*AOV081		.		*H,M	.*B
	COPES VULCAN	1E	. G-01	. .		.*180 DYS
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MARK NO. REPRESENTS 4 SNITCHES					
.1E51*PNS082	ON 1E51*AOV082		.		*L	.*B
	COPES VULCAN	1E	. G-01	. .		.*180 DYS
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	. .		.
	MARK NO. REPRESENTS 4 SNITCHES					
.1E51*PNS083	ON 1E51*AOV083		.		*H,M	.*B
	COPES VULCAN	1E	. G-01	. .		.*180 DYS
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MARK NO. REPRESENTS 4 SNITCHES					
.1E51*PNS091	ON 1E41*LCV091		.		*H,M	.*B
	COPES VULCAN	1E	. G-01	. .		.*180 DYS
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
	MARK NO REPRESENTS 2 SNITCHES					
.1E51*PNS095	ON 1E51*LCV095		.		*H,M	.*B
	COPES VULCAN	1E	. G-01	. .		.*180 DYS
	NAMCO		. RBS 00008.*RR	.		.
	EA740-20100	318	. 310735	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
					*L	.*B
						.*180 DYS
	MARK NO. REPRESENTS 4 SWITCHES					
.1T24*PNS001A	ON 1T24*AOV001A				H,M	. B
	COPES VULCAN	1E	G-02			. 180 DYS
	NAMCO		RBS 00040.*RR			
	EA740-20100	318	310735			
					L	. A
						. 180 DYS
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					NA
.1T24*PNS001B	ON 1T24*AOV001B				H,M	. B
	COPES VULCAN	1E	G-02			. 180 DYS
	NAMCO		RBS 00040.*RR			
	EA740-20100	318	310735			
					L	. A
						. 180 DYS
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					NA
.1T24*PNS004A	ON 1T24*AOV004A				H,M	. B
	COPES VULCAN	1E	G-02			. 180 DYS
	NAMCO	1E	RBS 00040.*RR			
	EA740-20100	318				
					L	. A
						. 180 DYS
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
.1T24*PNS004B	ON 1T24*AOV004B				H,M	. B
	COPES VULCAN	1E	G-02			. 180 DYS
	NAMCO	1E	RBS 00040.*RR			
	EA740-20100	318				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC NU-CAT SPEC	ZONE BLDG ELEV PO NUMBER	EQ SHEET QUAL STAT	ENS COND SUBMG	OPER CODE
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
	OPCODE A 180DYS FOR LOCA, NOT REQUIRED DURING PBO C					
.1T46*PNS078A	DRYWL VENT 1T46L*AOV078 POS SW.		.		*H,M	.*B
	COPES VULCAN	1E	. G-06 .	.		.*180 DYS
	NAMCO		. RBS 00090.	*RR/EQ .		.
	EA740-20100	318	. 310735 .	.		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 4 SWITCHES					
.1T46*PNS078B	ON 1T46*AOV078B		.		*H,M	.*B
	COPES VULCAN	1E	. G-12 .	.		.*180 DYS
	NAMCO		. RBS 00096.	*RR/EQ .		.
	EA740-20100	318	. 310735 .	.		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 4 SWITCHES					
.1T46*PNS079A	ON 1T46*AOV079A		.		*H,M	.*B
	COPES VULCAN	1E	. G-06 .	.		.*180 DYS
	NAMCO		. RBS 00063.	*RR/EQ .		.
	EA740-20100	318	. 310735 .	.		.
			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 4 SWITCHES					
.1T46*PNS079B	ON 1T46*AOV079B		.		*H,M	.*B
	COPES VULCAN	1E	. G-06 .	.		.*180 DYS
	NAMCO		. RBS 00063.	*RR/EQ .		.
	EA740-20100	318	. 310735 .	.		.

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			.		*L	.*A
			. . .			.*070 MIN
			. . .			.
			. . .			.
	MARK NO. REPRESENTS 4 SWITCHES					
.1B21*PNS081A	*CHANGED TO 1Z91*PNS039A		.		*H,M	.*B
	GE-NED	1E	. D-22 .	3911 .		.*180 DYS
	NAMCO		. RBP 00082.	RR .		.
	EA740-80000	003	. 310010 .	.		. *1 Z
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			. *1 Z
.1B21*PNS081B	*CHANGED TO 1Z91*PNS039B		.		*H,M	.*B
	GE-NED	1E	. D-22 .	3911 .		.*180 DYS
	NAMCO		. RBP 00082.	RR .		.
	EA740-80000	003	. 310010 .	.		. *1 Z
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			. *1 Z
.1B21*PNS081C	*CHANGED TO 1Z91*PNS039C		.		*H,M	.*B
	GENERAL ELEC	1E	. D-22 .	3911 .		.*180 DYS
	NAMCO		. RBP 00082.	RR .		.
	EA740-80000	003	. 310010 .	.		. *1 Z
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			. *1 Z
.1B21*PNS081D	*CHANGED TO 1Z91*PNS039D		.		*H,M	.*B
	GENERAL ELEC	1E	. D-22 .	3911 .		.*180 DYS
	NAMCO		. RBP 00082.	RR .		.
	EA740-80000	003	. 310010 .	.		. *1 Z
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			. *1 Z

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.1B21*PNS082A	*CHANGED TO 1Z91*PNS040A		.		*H,M	.*B
	GENERAL ELEC	1E	. T-08	. 3911	.	.*180 DYS
	NAMCO		. ST 00082.	RR	.	.
	EA740-80000	003	. 310010	.	.	. *1 %
			.		*L	.*B
			.	.	.	.*180 DYS
			.	.	.	.
			.	.	.	. *1 %
.1B21*PNS082B	*CHANGED TO 1Z91*PNS040B		.		*H,M	.*B
	GENERAL ELEC	1E	. T-08	. 3911	.	.*180 DYS
	NAMCO		. ST 00082.	RR	.	.
	EA740-80000	003	. 310010	.	.	. *1 %
			.		*L	.*B
			.	.	.	.*180 DYS
			.	.	.	.
			.	.	.	. *1 %
.1B21*PNS082C	*CHANGED TO 1Z91*PNS040C		.		*H,M	.*B
	GENERAL ELEC	1E	. T-08	. 3911	.	.*180 DYS
	NAMCO		. ST 00082.	RR	.	.
	EA740-80000	003	. 310010	.	.	. *1 %
			.		*L	.*B
			.	.	.	.*180 DYS
			.	.	.	.
			.	.	.	. *1 %
.1B21*PNS082D	*CHANGED TO 1Z91*PNS040D		.		*H,M	.*B
	GENERAL ELEC	1E	. T-08	. 3911	.	.*180 DYS
	NAMCO		. ST 00082.	RR	.	.
	EA740-80000	003	. 310010	.	.	. *1 %
			.		*L	.*B
			.	.	.	.*180 DYS
			.	.	.	.
			.	.	.	. *1 %
.1C11*PNS050	FOR 1C11*AOV050		.		H,M	. A
C11-F180	*GENERAL ELECT	*1E	.*G-05	.	.	. 070 MIN
	*NAMCO		.*PBS	.	.	.
	*EA740-80000	*003	.*310010	.	.	.

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			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			.
.1C11*PNS051	FOR 1C11*AOV051		.			H,M	. A
C11-F181	*GENERAL ELECT	*1E	.*G-05	.	.		. 070 MIN
	*NAMCO		.*RBS	.	.		.
	*EA740-80000	*003	.*310010	.	.		.
			.			L	. A
			. .	.			. 070 MIN
			. .	.			.
			. .	.			.
.1B21*PNS093A	ON 1B21*RV093A		.			H,M	. B
	*ANDERSN GRNND	1E	. E-23	.	.		. 180 DYS
	NAMCO		. RBP	00050.*RR	.		.
	EA740-80001	175	.*310649	.	.		.
			.			L	. B
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
	MARK NO. REPRESENTS 2 SWITCHES						
.1B21*PNS093B	ON 1B21*RV093B		.			H,M	. B
	*ANDERSN GRNND	1E	. E-23	.	.		. 180 DYS
	NAMCO		. RBP	00050.*RR	.		.
	EA740-80001	175	.*310649	.	.		.
			.			L	. B
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.
	MARK NO. REPRESENTS 2 SWITCHES						
.1B21*PNS093C	ON 1B21*RV093C		.			H,M	. B
	*ANDERSN GRNND	1E	. E-23	.	.		. 180 DYS
	NAMCO		. RBP	00050.*RR	.		.
	EA740-80001	175	. 310649	.	.		.
			.			L	. B
			. .	.			. 180 DYS
			. .	.			.
			. .	.			.

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.1B21*PNS093D	ON 1B21*RV093D					H,M	B
	*ANDERSN GRNWD	1E	E-23				180 DYS
	NAMCO		RBP	00050.	*RR		
	EA740-80001	175	310649				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						
.1B21*PNS093E	ON 1B21*RV093E					H,M	B
	*ANDERSN GRNWD	1E	E-23				180 DYS
	NAMCO		RBP	00050.	*RR		
	EA740-80001	175	310649				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						
.1B21*PNS093F	ON 1B21*RV093F					H,M	B
	*ANDERSN GRNWD	1E	E-23				180 DYS
	NAMCO		RBP	00050.	*RR		
	EA740-80001	175	310649				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						
.1B21*PNS093G	ON 1B21*RV093G					H,M	B
	*ANDERSN GRNWD	1E	E-23				180 DYS
	NAMCO		RBP	00050.	*RR		
	EA740-80001	175	310649				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						

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.1B21*PNS093H	ON 1B21*RV093H				H,M	B
	*ANDERSN GRNND	1E	E-23			180 DYS
	NAMCO		RBP 00050.*RR			
	EA740-80001	175	310649			
					L	B
						180 DYS
	MARK NO. REPRESENTS 2 SWITCHES					
.1B21*PNS093J	ON 1B21*RV093J				H,M	B
	*ANDERSN GRNND	1E	E-23			180 DYS
	NAMCO		RBP 00050.*RR			
	EA740-80001	175	310649			
					L	B
						180 DYS
	MARK NO. REPRESENTS 2 SWITCHES					
.1B21*PNS093K	ON 1B21*RV093K				H,M	B
	*ANDERSN GRNND	1E	E-23			180 DYS
	NAMCO		RBP 00050.*RR			
	EA740-80001	175	310649			
					L	B
						180 DYS
	MARK NO. REPRESENTS 2 SWITCHES					
.1B21*PNS093L	ON 1B21*RV093L				H,M	B
	*ANDERSN GRNND	1E	E-23			180 DYS
	NAMCO		RBP 00050.*RR			
	EA740-80001	175	310649			
					L	B
						180 DYS
	MARK NO. REPRESENTS 2 SWITCHES					

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.1B21*PNS093M	ON 1B21*RV093M					H,M	B
	*ANDERSN GRNMD	1E	E-23				180 DYS
	NAMCO		RBP	00050.*RR			
	EA740-80001	175	310649				
						L	B
							180 DYS
	MARK NO. REPRESENTS 2 SWITCHES						
.1T46*PNS031A	POSITION ON MOD031A					*H,M	*A
	*NAMCO	1E	K-15				*180 DYS
	NAMCO		RBS	00135.*RR			
	EA750-50100	319	310738				
						*L	*A
							*180 DYS
.1T46*PNS031B	POSITION ON MOD031B					*H,M	*A
	*NAMCO	1E	K-15				*180 DYS
	NAMCO		RBS	00135.*RR			
	EA750-50100	319	310738				
						*L	*A
							*180 DYS
.1T46*PNS034A	POSITION ON MOD034A					*H,M	*A
	*NAMCO	1E	H-20				*180 DYS
	NAMCO		RBS	00182.*RR			
	EA750-50100	319	310738				
						*L	*A
							*180 DYS
.1T46*PNS034B	POSITION ON MOD034B					*H,M	*A
	*NAMCO	1E	H-20				*180 DYS
	NAMCO		RBS	00182.*RR			
	EA750-50100	319	310738				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
						*L	.*A
							.*180 DYS
.1T46*PNS040A	POSITION ON AOD040A					*H,M	.*A
	*NAMCO	1E	H-18				.*070 MIN
	NAMCO		RBS	00150.*RR			
	EA750-50100	319	310738				
						*L	.*A
							.*070 MIN
.1T46*PNS040B	POSITION ON AOD040B					*H,M	.*A
	*NAMCO	1E	H-18				.*070 MIN
	NAMCO		RBS	00150.*RR			
	EA750-50100	319	310738				
						*L	.*A
							.*180 DYS
.1T46*PNS041A	POSITION ON AOD041A					*H,M	.*A
	*NAMCO	1E	K-15				.*070 MIN
	NAMCO		RBS	00112.*RR			
	EA750-50100	319	310738				
						*L	.*A
							.*070 MIN
.1T46*PNS041B	POSITION ON AOD041B					*H,M	.*A
	*NAMCO	1E	K-15				.*070 MIN
	NAMCO		RBS	00112.*RR			
	EA750-50100	319	310738				
						*L	.*A
							.*070 MIN

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JOB NAME SHOREHAM - UNIT 1 ENVIRONMENTAL QUALIFICATION STATUS REPORT RESET NO. 004
JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

REPORT GROUP MAK = NECI

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
.1B21*TE059A	MAIN STM TUNNEL AMB		.			H	. A
B21-N014A	GENERAL ELEC	1E	.*T-08		. 3110 .		. 70 MIN
	NECI		.*TB	00078.	EQ .		.
	145C3224P001	003	. 310010		. .		. ANSI C96.1
			.			*H,H	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1B21*TE059B	MAIN STM TUNNEL AMB		.			H	. A
B21-N014B	GENERAL ELEC	1E	.*T-08		. 3110 .		. 70 MIN
	NECI		.*TB	00078.	EQ .		.
	145C3224P001	003	. 310010		. .		. ANSI C96.1
			.			*H,H	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1B21*TE059C	MAIN STM TUNNEL AMB		.			H	. A
B21-N014C	GENERAL ELEC	1E	.*T-08		. 3110 .		. 70 MIN
	NECI		.*TB	00078.	EQ .		.
	145C3224P001	003	. 310010		. .		. ANSI C96.1
			.			*H,H	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.

REPORT NO. PES-801
JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1B21*TE059D	MAIN STM TUNNEL AMB		.			H	. A
B21-N014D	GENERAL ELEC	1E	.*T-08		. 3110	.	. 70 MIN
	NECI		.*TB	00078.	EQ	.	.
	145C3224P001	003	. 310010		.	.	. ANSI C96.1
			.			*H,H	.*A
			.	.	.		.*070 MIN
			.	.	.		.
			.	.	.		.
			.			*L	.*B
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.

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REPORT GROUP MAK = NMC

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT		EMG COND / SUBMG	OPER CODE
*1D11-PNL041	SHOREHAM STATION VENT MON						H,M	A
	N.M.C.	2E	H-20					180 DYS
DELETED	NMC	RG	RBS	00175.	****			
	N/A	332	310782					
							L	A
								180 DYS
	CAT. II EQUIPMENT NOT 1E POWERED							
.1D11-RTS041	STATION VENT EXHAUST						H,M	A
	N.M.C.	2E	H-20					180 DYS
	NMC	*	RBS	00175.	*IJ			
	PMC-8000	332	310782					
							L	A
								180 DYS
	CAT. II EQUIPMENT NOT 1E POWERED							
.1D11-RE041	STATION VENT EXHAUST						H,M	A
N/A	N.M.C.	2E	H-20					180 DYS
	NMC	*	RBS	00175.	*IJ			
	SC-2-15 GAMMA DET	332	310782					
							L	A
								180 DYS
	CAT. II EQUIPMENT NOT 1E POWERED							
.1D11-RE043	STATION VENT EXHAUST						H,M	A
N/A	N.M.C.	2E	H-20					180 DYS
	NMC	*	RBS	00175.	*IJ			
	SC-2-15 GAMMA DET	332	310782					
							L	A
								180 DYS
	CAT. II EQUIPMENT NOT 1E POWERED							

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.1D11-RE042	STATION VENT EXHAUST				H,M	A
N/A	N.M.C.	2E	H-20			180 DYS
	NMC	*	RBS 00175.*IJ			
	SC-2B B SCINT DET	332	310782			
					L	A
						180 DYS

CAT. II EQUIPMENT NOT 1E POWERED

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STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK = NOT DETERMINED							
1E41*LS091	HPCI STM DRN POT	.				H,M	. B
E41-N014	G.E.	1E	. G-01	.	.		. 180 DYS
	NOT DETERMINED		. RBS	00016.	DR/IJ	.	.
		003	. 310010	.	.		.
		.				L	. B
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
REPORT GROUP MAK = OKONITE						
.1R31*NFM02	POWER CABLE		.		ALL	. A
	OKONITE	1E	. ALL	. 128-01 .		. 180 DYS
	OKONITE		. RB ******.	EQ .		.
	600 V POWER CABLEST	128	. 310557	. .	SPR	. NA
	REPRESENTS ALL CABLE PURCHASED UNDER SH1-128					

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JOB CLIENT LILCO SORTED BY - MAK / MOD / SPEC RESET DATE 05/12/82

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
REPORT GROUP MAK = PONERS						
.1T46*A0D041A	RB POT CONTAM AREA EXH		.		ALL	. A
	PONERS REGUL	1E	. K-15	. 319-01 .		. 070 MIN
	PONERS		. RBS 00112.	EQ .		.
	331-2792	319	. 310738	. .		.
.1T46*A0D041B	RB POT CONTAM AREA EXH		.		ALL	. A
	PONERS REGUL	1E	. K-15	. 319-01 .		. 070 MIN
	PONERS		. RBS 00112.	EQ .		.
	331-2792	319	. 310738	. .		.

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REPORT GROUP MAK = PYCO

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
1E11*TE013A	RHR HX TUBE OUTLET		.		H,M	. A
	GENERAL ELEC	1E	. G-01	. 3110 .		. 180 DYS
	PYCO	1E	.	. EQ .		.
	N145C3224 PART 1	003	.	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1E11*TE013B	RHR HX TUBE OUTLET		.		H,M	. A
	GENERAL ELEC	1E	. G-01	. .		. 180 DYS
	PYCO	*	.*RBS *00008.	EQ .		.
	N145C3224 PART 1	*003	.*310010	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
1E11*TE014A	RHR EQUIP AREA AMB		.		H,M	. A
E11-N009A	GENERAL ELEC	1E	. 1	. 3110 .		. 001 DYS
	PYCO	1E	. RBS	8. EQ .		.
	N145C3224 PART 1	003	. 370969	. .		.
			.		L	. B
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
1E11*TE014B	RHR EQUIP AREA AMB		.		H,M	. A
E11-N009B	GENERAL ELEC	1E	. 1	. 3110 .		. 001 DYS
	PYCO	1E	. RBS	8. EQ .		.
	N145C3224 PART 1	003	. 310010	. .		.
			.		L	. B
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	ENG COND / SUBNG	OPER CODE
1E11*TE015A	RHR EQUIP AREA AMB				H,M	A
E11-N030A	GENERAL ELEC	1E	1	3110		001 DYS
	PYCO	1E	RBS 8.	EQ		
	N145C3224 PART 1	003	310010			
					L	B
						180 DYS
1E11*TE015B	RHR EQUIP AREA AMB				H,M	A
E11-N030B	GENERAL ELEC	1E	1	3110		001 DYS
	PYCO	1E	RBS 8.	EQ		
	N145C3224 PART 1	003	310010			
					L	B
						180 DYS
.1E41*TE053A	HPCI EQUIP AREA AMB				H,M	A
E41-N024A	GENERAL ELEC	1E	1	3110		070 MIN
	PYCO	1E	RBS *00034.	EQ		
	N145C3234 PART 1	003	310010			
					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
.1E41*TE053B	HPCI EQUIP AREA AMB				H,M	A
E41-N024B	GENERAL ELEC	1E	1	3110		070 MIN
	PYCO	1E	RBS *00034.	EQ		
	N145C3234 PART 1	003	310010			
					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
.1E41*TE054A	HPCI EQUIP AREA AMB				H,M	A
E41-N028A	GENERAL ELEC	1E	1	3110		070 MIN
	PYCO	1E	RBS *00034.	EQ		
	N145C3234 PART 1	003	310010			

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					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
.1E41*TE054B	HPCI EQUIP AREA AMB				H,M	A
E41-N028B	GENERAL ELEC	1E	1	3110		070 MIN
	PYCO	1E	RBS *00034	EQ		
	N145C3234 PART 1	003	310010			
					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
.1E41*TE055A	HPCI EQUIP AREA AMB				H,M	A
E41-N029A	GENERAL ELEC	1E	1	3110		070 MIN
	PYCO	1E	RBS *00034	EQ		
	N145C3234 PART 1	003	310010			
					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
1E41*TE055B	HPCI EQUIP AREA AMB				H,M	A
E41-N029B	GENERAL ELEC	1E	5	3110		070 MIN
	PYCO	1E	RBS 63	EQ		
	N145C3234 PART 1	003	310010			
					L	B
						180 DYS
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
1E41*TE056A	HPCI EQUIP AREA AMB				H,M	A
E41-N030A	GENERAL ELEC	1E	5	3110		070 MIN
	PYCO	1E	RBS 63	EQ		
	N145C3234 PART 1	003	310010			

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			.		L	. B
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
1E41*TE056B	HPCI EQUIP AREA ANB		.		H,H	. A
E41-N030B	GENERAL ELEC	1E	. 5	. 3110 .		. 070 MIN
	PYCO	1E	. RBS 63.	EQ .		.
	N145C3234 PART 1	003	. 310010	. .		.
			.		L	. B
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.
	DETECT AREA TEMP RISE,INDICATING A PB IN HPCI PIPING NOT REQUIRED TO OP. AFTER HPCI DEACTIVATES					
1E11-TE012A	RHR MAIN FLOW		.		H,H	. A
E11-N027A	GENERAL ELEC	1E	. G-02	. 3906 .		. 180 DYS
	PYCO	RG	. RBS 00040.	EQ .		.
	102-3171	003	. 310010	. .		.
			.		L	. A
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.
1E11-TE012B	RHR MAIN FLOW		.		H,H	. A
E11-N027B	GENERAL ELEC	1E	. G-02	. 3906 .		. 180 DYS
	PYCO	RG	. RBS 00040.	EQ .		.
	102-3171	003	. 310010	. .		.
			.		L	. A
			. .	.		. 180 DYS
			. .	.		.
			. .	.		.
.1B21*TE43AY	MAIN STM TUNNEL OUTLET		.		*H,H	.*A
B21-N010A	GENERAL ELEC	1E	. ST	.*3110 .		.*070 MIN
	*PYCO		.*TB 00079.	EQ .		.
	*102-9039-08	003	. 310010	. .		. *0.6%
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		.

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.1B21*TE43BY B21-N010B	MAIN STM TUNNEL OUTLET GENERAL ELEC *PYCO *102-9039-08	1E 003	. ST .*TB . 310010	.*3110 00078. EQ .	*H,M *L	.*A .*070 MIN . *0.6% .*B .*180 DYS
.1B21*TE43CY B21-N010C	MAIN STM TUNNEL OUTLET GENERAL ELEC *PYCO *102-9039-08	1E 003	. ST .*TB . 310010	.*3110 00078. EQ .	*H,M *L	.*A .*070 MIN . *0.6% .*B .*180 DYS
.1B21*TE43DY B21-N010D	MAIN STM TUNNEL OUTLET GENERAL ELEC *PYCO *102-9039-08	1E 003	. ST .*TB . 310010	.*3110 00078. EQ .	*H,M *L	.*A .*070 MIN . *0.6% .*B .*180 DYS

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REPORT GROUP MAK = RAYCHEM						
1R32*NFP 044	INST CABLE		.		ALL	. A
	RAYCHEM	1E	. ALL	. 130-01 .		. 180 DYS
	RAYCHEM		. RB	. EQ .		.
	INSTRUMENT CABLE	130	. 310587	. .	SPR	. N/A
	REPRESENTS ALL CABLE PURCHASED UNDER SH1-130					

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REPORT GROUP MAK = RAYMOND

EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE	
.1T46*M0D031A	RBSVS INLE TO MIXED PLEN					*H,M	.*A	
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS	
	RAYMOND		RBS	00135.	*RR/IJ			
	MASR-49	319	310738					
						*L	.*A	
							.*180 DYS	
.1T46*M0D031B	RBSVS INLE TO MIXED PLEN					*H,M	.*A	
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS	
	RAYMOND		RBS	00135.	*RR/IJ			
	MASR-49	319	310738					
						*L	.*A	
							.*180 DYS	
.1T46*M0D036A	MOT DAMPER FOR FN 1T46*FN-003A.					*H,M	.*A	
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS	
	RAYMOND		RBS	00112.	*RR/IJ			
	MASR-49	319	310738					
						*L	.*A	
							.*180 DYS	
.1T46*M0D036B	MOT DAMPER FOR FN 1T46*FN-003B.					*H,M	.*A	
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS	
	RAYMOND		RBS	00112.	*RR/IJ			
	MASR-49	319	310738					
						*L	.*A	
							.*180 DYS	

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.1T46*MOD036C	MOT DAMPER FOR FN 1T46*FN-003C.					*H,M	.*A
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS
	RAYMOND		RBS	126.	*RR/IJ		
	MASR-49	319	310738				
						*L	.*A
							.*180 DYS
.1T46*MOD047A	FN-79A DISCHARGE AIR					*H,M	.*A
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS
	RAYMOND		RBS	00112.	*RR/IJ		
	MASR-9	319	310738				
						*L	.*A
							.*180 DYS
.1T46*MOD047B	FN-79B DISCHARGE AIR					*H,M	.*A
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS
	RAYMOND		RBS	00112.	*RR/IJ		
	MASR-9	319	310738				
						*L	.*A
							.*180 DYS
.1T46*MOD048A	FLT 1A					*H,M	.*A
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS
	RAYMOND		RBS	00112.	*RR/IJ		
	MASR-9	319	310738				
						*L	.*A
							.*180 DYS
.1T46*MOD048B	FLT 1B					*H,M	.*A
	*POWERS REGUL	1E	K-15		319-01		.*180 DYS
	RAYMOND		RBS	00112.	*RR/IJ		
	MASR-9	319	310738				

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMG COND / SUBMG	OPER CODE
**********	**********	**********	**********	**********	**********	**********
					*L	.*A
						.*180 DYS
						.
						.

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REPORT GROUP MAK = RELIANCE

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.1P42*P005A	RBCLCW CIRC PP GOULD PUMP RELIANCE *100-HP-444T	1E 62G	H-18 RBS 310582	.*62G-01 150.*EQ	*H,M *L	.*A .*180 DYS .*A .*130 DYS
.1P42*P005B	RBCLCW CIRC PP GOULD PUMP RELIANCE *100-HP-444T	1E 62G	H-18 RBS 310582	.*62G-01 150.*EQ	*H,M *L	.*A .*180 DYS .*A .*180 DYS
.1P42*P005C	RBCLCW CIRC PP GOULD PUMP RELIANCE *100-HP-444T	1E 62G	H-18 RBS 310582	.*62G-01 150.*EQ	*H,M *L	.*A .*180 DYS .*A .*180 DYS
.1G41*P023A	SPENT FUEL POOL COOLING PP GOULD PUMP RELIANCE *30-HP-326T	1E 62G	.*62G-01 RBS 310582	. 150.*EQ	H,M L	. B . 180 DYS . A . 180 DYS

L-OP CODE B REM: H,M-OP CODE B 1 DAY, C REM. (MCC REV.)

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.1G41*P023B	SPENT FUEL POOL COOLING PP GOULD PUMP RELIANCE *30-HP-326T	1E 62G	.*62G-01 RBS 310582	. 150.*EQ .	H,M L	. B . 180 DYS . A . 180 DYS
.1T48*BL001A	HYD RECOMBINER BLOWER 1A ATOMICS INT RELIANCE 324T	1E 289	. J-15 RBS 3100624	. 289-03 112. EQ .	H,M L	.*B .*180 DYS . A . 180 DYS . NA
.1T48*BL001B	HYD RECOMBINER BLOWER 1B ATOMICS INT RELIANCE 324T	1E 289	. J-16 RBS 3100624	. 289-03 112. EQ .	H,M L	.*B .*180 DYS . A . 180 DYS . NA

L-OP CODE B REM: H,M-OP CODE B 1 DAY, C REM. (MCC REV.)

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REPORT GROUP MAK = ROCKBESTOS

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.1R32*NFP097	INST CABLE		.		ALL	. A
	ROCKBESTOS	1E	. ALL RBS	. 129-02 .		. 180 DYS
	ROCKBESTOS		. RB	. EQ .		.
	*RSS 6-207	129	. 310553	. .	SPR	. NA
	REPRESENTS ALL COAXIAL & TRIAXIAL CABLE IN SH1-129. CABLE TO BE USED IN RBS ONLY.					
1R32*NFP010	INST CABLE		.		ALL	. A
	ROCKBESTOS	1E	. ALL	. 129-01 .		. 180 DYS
	ROCKBESTOS		. RB	. EQ .		.
	THERMOCOUPLE WIRE	131	. 310664	. .	SPR	. NA
	REPRESENTS ALL CABLE PURCHASED UNDER SH1-131					
1R32*NFP020	INST CABLE		.		ALL	. A
	ROCKBESTOS	1E	. ALL	. 129-01 .		. 180 DYS
	ROCKBESTOS		. RB	. EQ .		.
	300/600 CONT & INST	129	. 310553	. .	SPR	. N/A
	REPRESENTS ALL 300/600 CONT & INST CABLE PURCHASED UNDER SH1-129					

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REPORT GROUP MAK	= ROSEMONT					
.1B21*TE147A	EXCLUSION AREA TEMP A		.		*H,M	.*A
	ROSEMONT	1	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		.*TB 00078.	*EQ .		.
	89-138-2/88-14-3	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1B21*TE147B	EXCLUSION AREA TEMP B		.		*H,M	.*A
	ROSEMOUNT	1	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		.*TB 00078.	*EQ .		.
	89-138-2/88-14-3	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1B21*TE037A	MAIN STEAM TURB INLET CH A1		.		*H,M	.*A
	ROSEMOUNT	1E	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		. TB 00082.	*EQ .		.
	89-86-4/88-14-1	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1B21*TE037B	MAIN STEAM TURB INLET CH B1		.		*H,M	.*A
	ROSEMOUNT	1E	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		. TB 00082.	*EQ .		.
	89-86-4/88-14-1	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.

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.1B21*TE037C	MAIN STEAM TURB INLET CH	A2	.		*H,M	.*A
	ROSEMOUNT	1E	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		. TB	00055.*EQ .		.
	89-86-4/88-14-1	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1B21*TE037D	MAIN STEAM TURB INLET CH	B2	.		*H,M	.*A
	ROSEMOUNT	1E	.*ST	.*406-03 .		.*070 MIN
	ROSEMONT		. TB	00055.*EQ .		.
	89-86-4/88-14-1	406	. 310773	. .		.
			.		*L	.*B
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1C61*TE021	DRYWELL TEMP		.		H,M	. B
	ROSEMOUNT	1	. A-22	.*406-03 .		. 180 DYS
	ROSEMONT		. RED	00150.*EQ .		.
	89-86-4/88-14-1	406	. 310773	. .		.
			.		L	. B
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.

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REPORT GROUP MAK	= ROSEMOUNT						
.1E32*PT034	MN STM LINE LEAKAGE					H,M	B
E32-N056	GENERAL ELEC	1E	G-05		3048		180 DYS
	ROSEMOUNT	RG	RBS	00063.	FT/IJ		
	1151AP	003	310010				
						L	A
							100 DYS
.1E32*PT031A	MSIV A LEAKAGE LINE					H,M	B
E32-N051B	GENERAL ELEC	1E	G-05		3048		180 DYS
	ROSEMOUNT	RG	RBS	00063.	FT/IJ		
	*1151AP5E22T0003PB	003	310010				
						L	A
							100 DYS
.1E32*PT031B	MSIV B LEAKAGE LINE					H,M	B
E32-N051F	GENERAL ELEC	1E	G-05		3048		180 DYS
	ROSEMOUNT	RG	RBS	00063.	FT/IJ		
	*1151AP5E22T0003PB	003	310010				
						L	A
							100 DYS
.1E32*PT031C	MSIV C LEAKAGE LINE					H,M	B
E32-N051K	GENERAL ELEC	1E	G-05		3048		180 DYS
	ROSEMOUNT	RG	RBS	00063.	FT/IJ		
	*1151AP5E22T0003PB	003	310010				
						L	A
							100 DYS

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.1E32*PT031D	MSIV D LEAKAGE LINE		.			H,M	. B
E32-N051P	GENERAL ELEC	1E	. G-05		. 3048		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ		.
	*1151AP5E22T0003PB	003	. 310010		.		.
			.			L	. A
			.		.		. 100 DYS
			.		.		.
			.		.		.
1E21*FT002B	CORE SPRAY PUMP DISCH		.			H,M	. B
E21-N003B	GENERAL ELEC	1E	. G-01		. 3048		. 180 DYS
	ROSEMOUNT	RG	. RBS	00008.	FT/IJ		.
	1151DP	003	. 310010		.		.
			.			L	. A
			.		.		. 180 DYS
			.		.		.
			.		.		.
1E32*PDT035	DILUTION AIRFLOW,DB		.			H,M	. B
E32-N059	GENERAL ELEC	1E	. G-05		. 3048		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ		.
	1151DP	003	. 310010		.		.
			.			L	. A
			.		.		. 100 DYS
			.		.		.
			.		.		.
1E41*FT003	CHANGED TO 1Z91*FT002		.			H,M	. A
E41-N003	GENERAL ELEC	1E	. G-01		. 3048		. 012 HRS
	ROSEMOUNT	RG	. RBS	00008.	EQ		.
	1151DP	003	. 310010		.		.
			.			L	. A
			.		.		. 012 HRS
			.		.		.
			.		.		.
1G33*FT012	RHCU SYS REACTOR RETURN		.			H,M	. A
G33-N041	GENERAL ELEC	1E	. H-16		. 3048		. 070 MIN
	ROSEMOUNT		. RBS	63.	EQ		.
	1151DP	003	. 310010		.		. 2% SPAN

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						L	B 180 DYS
.1C61*FT001 C61-N001	RHR MAIN FLOW GENERAL ELEC ROSEMOUNT *1151DPC22T0002PB	1E 003	G-01 RBS 310010	00008.	3048 FT/IJ	H,M	B 180 DYS
						L	B 180 DYS
.1E11*FT001A E11-N015A	RHR MAIN FLOW GENERAL ELEC ROSEMOUNT *1151DP052M3GE2	1E RG 003	G-01 RBS 310010	00008.	3048 FT/IJ	H,M	A 180 DYS 2.25%
						L	A 180 DYS 2.25%
.1B21*LT154A B21-N080A	REACTOR LEVEL TRIPS GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 EQ	H,M	.*A .*070 MIN *3 IN
						L	.*A .*070 MIN *3 IN
.1B21*LT154B B21-N080B	REACTOR LEVEL TRIPS GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 EQ	H,M	.*A .*070 MIN *3 IN
						L	.*A .*070 MIN *3 IN

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.1B21*LT154C	REACTOR LEVEL TRIPS		.		H,M	.*A
B21-N080C	GENERAL ELEC	1E	. G-12	. 3048		.*070 MIN
	ROSEMOUNT		. RBS 00078.	EQ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *3 IN
			.		L	.*A
			.	.		.*1.1 HRS
			.	.		.
			.	.		. *3 IN
.1B21*LT154D	REACTOR LEVEL TRIPS		.		H,M	.*A
B21-N080D	GENERAL ELEC	1E	. G-12	. 3048		.*070 MIN
	ROSEMOUNT		. RBS 00078.	EQ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *3 IN
			.		L	.*A
			.	.		.*070 MIN
			.	.		.
			.	.		. *3 IN
.1B21*LT155A	WIDE RANGE		.		H,M	. A
B21-N081A	GENERAL ELEC	1E	. G-10	. 3048		. 012 HRS
	ROSEMOUNT		. RBS 00078.	FT/IJ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *7.5 IN.
			.		L	. A
			.	.		. 012 HRS
			.	.		.
			.	.		. *7.5 IN.
.1B21*LT155B	WIDE RANGE		.		H,M	. B
B21-N081B	GENERAL ELEC	1E	. G-10	. 3048		. 180 DYS
	ROSEMOUNT		. RBS 00078.	EQ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *7.5 IN.
			.		L	. B
			.	.		. 180 DYS
			.	.		.
			.	.		. *7.5 IN.
.1B21*LT155C	WIDE RANGE		.		H,M	. A
B21-N081C	GENERAL ELEC	1E	. G-12	. 3048		. 180 DYS
	ROSEMOUNT		. RBS 00078.	FT/IJ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *7.5 IN.

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						L	A 180 DYS *7.5 IN.
.1B21*LT155D B21-N081D	WIDE RANGE GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 EQ	H,M	B 180 DYS *7.5 IN.
						L	B 180 DYS *7.5 IN.
.1B21*LT157A B21-N091A	REACTOR LEVEL TRIPS GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 FT/IJ	H,M	A 180 DYS *2.5% FSDP
						L	A 180 DYS *2.5% FSDP
.1B21*LT157B B21-N091B	REACTOR LEVEL TRIPS GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-12 RBS 310010	00078.	3048 FT/IJ	H,M	A 180 DYS *2.5% FSDP
						L	A 180 DYS *2.5% FSDP
.1B21*LT157C B21-N091C	REACTOR LEVEL TRIPS GENERAL ELEC ROSEMOUNT *1151DP4E22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 FT/IJ	H,M	A 180 DYS *2.5% FSDP
						L	A 180 DYS *2.5% FSDP

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JOB CLIENT LILCO

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.1B21*LT157D	REACTOR LEVEL TRIPS		.		H,M	. A
B21-N091D	GENERAL ELEC	1E	. G-12	. 3048		. 180 DYS
	ROSEMOUNT		. RBS 00078.	FT/IJ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *2.5% FSDP
			.		L	. A
			.			. 180 DYS
			.			.
			.			. *2.5% FSDP
.1B21*LT159A	AUTO DEPRESSURIZATION		.		H,M	. A
B21-N095A	GENERAL ELEC	1E	. G-10	. 3915		. 002 DYS
	ROSEMOUNT		. RBS 00078.	EQ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *2.5% FSDP
			.		L	. A
			.			. 002 DYS
			.			.
			.			. *2.5% FSDP
.1B21*LT159B	AUTO DEPRESSURIZATION		.		H,M	. A
B21-N095B	GENERAL ELEC	1E	. H-12	. 3915		. 002 DYS
	ROSEMOUNT		. RBS 00078.	EQ		.
	*1151DP4E22T0003PB	003	. 310010	.		. *2.5% FSDP
			.		L	. A
			.			. 002 DYS
			.			.
			.			. *2.5% FSDP
.1E32*PDT038	DILUTION AIRFLOW IB		.		H,M	. B
E32-N054	GENERAL ELEC	1E	. G-05	. 3048		. 180 DYS
	ROSEMOUNT	RG	. RBS 00063.	FT/IJ		.
	*1151DP4E52T0003PB	003	. 310010	.		.
			.		L	. A
			.			. 100 DYS
			.			.
			.			.
.1E21*FT002A	CORE SPRAY PUMP DISCH		.		H,M	. B
E21-N003A	GENERAL ELEC	1E	. G-01	. 3048		. 180 DYS
	ROSEMOUNT	RG	. RBS 00008.	FT/IJ		.
	*1151DP5A22NBX	003	. 310010	.		.

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							L	. A . 180 DYS
.1E51*FT003 E51-N003	RCIC PUMP DISCHARGE GENERAL ELEC ROSEMOUNT *1151DP5A22MBX	1E RG 003	G-01 RBS 310010	00008.	3048 EQ		*H,M	.*B .*180 DYS *0.67%
							*L	.*B .*180 DYS *0.67%
.1G33*FT011 G33-N036	RWCU SYSTEM INLET GENERAL ELEC ROSEMOUNT *1151DP5A22MBX	1E 003	H-16 RBS 310010	00112.	3048 EQ		H,M	. A . 070 MIN 2% SPAN
							L	. B . 180 DYS
.1G33*FT013 G33-N012	RWCU SYS BLOWDOWN GENERAL ELEC ROSEMOUNT *1151DP5A22MBX	1E 003	H-16 RBS 310010	00112.	3048 EQ		H,M	. A . 070 MIN 2% SPAN
							L	. B . 180 DYS
.1E11*FT006A E11-N007A	CHANGED TO 1Z91*FT020 GENERAL ELEC ROSEMOUNT *1151DP5A52MBGE2	1E RG 003	G-01 RBS 10088	00008.	3048 FT/IJ		H,M	. A . 180 DYS 2%
							L	. A . 180 DYS 2%

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.1E11*FT006B	RHR HX SERV WATER INLET		G-01		3048		H,M	A
E11-N007B	GENERAL ELEC	1E	G-01		3048			180 DYS
	ROSEMOUNT	RG	RBS	00008.	FT/IJ			
	*1151DP5A52NBGE2	003	10088					2%
							L	A
								180 DYS
								2%
.1E11*FT001B	RHR MAIN FLOW						H,M	A
E11-N015B	GENERAL ELEC	1E	G-01		3048			180 DYS
	ROSEMOUNT	RG	RBS	00008.	FT/IJ			
	*1151DP5D22NBGE2	003	310010					2.25%
							L	A
								180 DYS
								2.25%
.1E11-FT004	RHR HEAD SPRAY						H,M	B
E11-N013	GENERAL ELEC	1E	G-12		3048			180 DYS
	ROSEMOUNT	1E	RBS	00078.	IJ			
	1151DP5D22PB	003	310010					
							L	B
								180 DYS
.1E32*PT033	MN STM LINE LEAKAGE						H,M	B
E32-N055	GENERAL ELEC	1E	G-05		3048			180 DYS
	ROSEMOUNT	RG	RBS	00063.	FT/IJ			
	1151GP	003	310010					
							L	A
								100 DYS
.1B21*PT156A	REACTOR HI PRESS SCRAM						*H,M	*B
B21-N078A	GENERAL ELEC	1E	G-10		3048			*180 DYS
	ROSEMOUNT		RBS	00078.	EQ			
	*1151GPE22T0003PB	003	310010					

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						L	.*B .*180 DYS 10 PSIG
.1B21*PT156B B21-N078B	REACTOR HI PRESS SCRAM GENERAL ELEC ROSEMOUNT *1151GPE22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 EQ	*H,M	.*B .*180 DYS
						L	.*B .*180 DYS 10 PSIG
.1B21*PT156C B21-N078C	REACTOR HI PRESS SCRAM GENERAL ELEC ROSEMOUNT *1151GPE22T0003PB	1E 003	G-12 RBS 310010	00078.	3048 EQ	*H,M	.*B .*180 DYS
						L	.*B .*180 DYS 10 PSIG
.1B21*PT156D B21-N078D	REACTOR HI PRESS SCRAM GENERAL ELEC ROSEMOUNT *1151GPE22T0003PB	1E 003	G-12 RBS 310010	00078.	3048 EQ	*H,M	.*B .*180 DYS
						L	.*B .*180 DYS 10 PSIG
.1B21*PT158A B21-N097A	CS 7 RHR VALVE OPENING GENERAL ELEC ROSEMOUNT *1151GPE22T0003PB	1E 003	G-10 RBS 310010	00078.	3048 EQ	*H,M	.*B .*180 DYS
						L	.*B .*180 DYS 1% FS

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.1B21*PT156B	CS & RHR VALVE OPENING		.			*H,M	.*B
B21-N097B	GENERAL ELEC	1E	. G-10		. 3048		.*180 DYS
	ROSEMOUNT		. RBS	00078.	EQ		.
	*1151GPE22T0003PB	003	. 310010		.		.
			.			L	.*B
			.		.		.*180 DYS
			.		.		.
			.		.		. 1% FS
.1B21*PT158C	CS & RHR VALVE OPENING		.			*H,M	.*B
B21-N097C	GENERAL ELEC	1E	. G-12		. 3048		.*180 DYS
	ROSEMOUNT		. RBS	00078.	EQ		.
	*1151GPE22T0003PB	003	. 310010		.		.
			.			L	.*B
			.		.		.*180 DYS
			.		.		.
			.		.		. 1% FS
.1B21*PT158D	CS & RHR VALVE OPENING		.			*H,M	.*B
B21-N097D	GENERAL ELEC	1E	. G-12		. 3048		.*180 DYS
	ROSEMOUNT		. RBS	00078.	EQ		.
	*1151GPE22T0003PB	003	. 310010		.		.
			.			L	.*B
			.		.		.*180 DYS
			.		.		.
			.		.		. 1% FS
.1C71*PT007A	PRIMARY CONTAINMENT HP		.			H,M	. A
C71-N050A	GENERAL ELEC	1E	. G-10		. 3048		. 070 MIN
	ROSEMOUNT		. RBS	00078.	EQ		.
	*1151GP4E22T0003PB	003	. 310010		.		.
			.			L	. A
			.		.		. 070 MIN
			.		.		.
			.		.		. 1% FS
.1C71*PT007B	PRIMARY CONTAINMENT HP		.			H,M	. A
C71-N050B	GENERAL ELEC	1E	. G-10		. 3048		. 070 MIN
	ROSEMOUNT		. RBS	00078.	EQ		.
	*1151GP4E22T0003PB	003	. 310010		.		.

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					L	A
						070 MIN
						1% FS
.1C71*PT007C	PRIMARY CONTAINMENT HP				H,M	A
C71-N050C	GENERAL ELEC	1E	*G-12	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			
					L	A
						070 MIN
						1% FS
.1C71*PT007D	PRIMARY CONTAINMENT HP				H,M	A
C71-N050D	GENERAL ELEC	1E	G-12	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			
					L	A
						070 MIN
						1% FS
.1E11*PT165A	PRIMARY CONT HP				L	A
	GENERAL ELEC	1E	G-10	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			.1 PSIG
.1E11*PT165B	PRIMARY CONT HP				L	A
	GENERAL ELEC	1E	*G-12	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			.1 PSIG
.1E11*PT165C	PRIMARY CONT HP				L	A
	GENERAL ELEC	1E	G-10	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			.1 PSIG
.1E11*PT165D	PRIMARY CONT HP				L	A
	GENERAL ELEC	1E	G-12	3048		070 MIN
	ROSEMOUNT		RBS 00078.	EQ		
	*1151GP4E22T0003PB	003	310010			.1 PSIG

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.1E41-PT001	HPCI PUMP SUCT		.			L	. B
E41-N019	GENERAL ELEC	1E	. G-01		.*3915 .		. 180 DYS
	*ROSEMOUNT	1E	. RBS	00008.	IJ .		.
	*1151GP6E22T0280PB	003	. 310010		. .		.
	EQUIPMENT LOCATED IN A NON-HARSH ENVIRONMENT						
.1E32*PT032A	MSIV A LEAKAGE LINE		.			H,M	. B
E32-N061B	GENERAL ELEC	1E	. G-05		. 3048 .		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ .		.
	*1151GP6E52T0003PB	003	. 310010		. .		.
			.			L	. A
			.		. .		. 100 DYS
			.		. .		.
			.		. .		.
.1E32*PT032B	MSIV B LEAKAGE LINE		.			H,M	. B
E32-N061F	GENERAL ELEC	1E	. G-05		. 3048 .		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ .		.
	*1151GP6E52T0003PB	003	. 310010		. .		.
			.			L	. A
			.		. .		. 100 DYS
			.		. .		.
			.		. .		.
.1E32*PT032C	MSIV C LEAKAGE LINE		.			H,M	. B
E32-N061K	GENERAL ELEC	1E	. G-05		. 3048 .		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ .		.
	*1151GP6E52T0003PB	003	. 310010		. .		.
			.			L	. A
			.		. .		. 100 DYS
			.		. .		.
			.		. .		.
.1E32*PT032D	MSIV D LEAKAGE LINE		.			H,M	. B
E32-N061P	GENERAL ELEC	1E	. G-05		. 3048 .		. 180 DYS
	ROSEMOUNT	RG	. RBS	00063.	FT/IJ .		.
	*1151GP6E52T0003PB	003	. 310010		. .		.
			.			L	. A
			.		. .		. 100 DYS
			.		. .		.
			.		. .		.

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.1E32*PT041	OUTBD MSIV LEAKAGE CONT					H,M	B
E32-N058	GENERAL ELEC	1E	G-10		3048		180 DYS
	ROSEMOUNT		RBS	00078.	FT/IJ		
	*1151GP6E52T0003PB	003	310010				
						L	A
							100 DYS
.1E32*PT042	INBD MSIV LEAKAGE CONT					H,M	B
E32-N060	GENERAL ELEC	1E	G-12		3048		180 DYS
	ROSEMOUNT		RBS	00078.	FT/IJ		
	*1151GP6E52T0003PB	003	310010				
						L	A
							100 DYS
.1E32*PT043	INBD MSIV LEAKAGE CONT					H,M	B
E32-N050	GENERAL ELEC	1E	G-12		3048		180 DYS
	ROSEMOUNT		RBS	00078.	FT/IJ		
	*1151GP6E52T0003PB	003	310010				
						L	A
							100 DYS
.1C61*PT012	PRESS TRANS DRYWELL PRESS					H,M	B
	ROSEMOUNT	1E	G-01		406-02		180 DYS
	ROSEMOUNT		RBS	00098.	EQ		
	1152AP5E22T0280PB	406	310773				
						L	B
							180 DYS

REQUIRED 6 MONTH ACCIDENT DOSE REDUCED TO <5.0E6 RADS PER CALCULATION SNPS-1-URB-23-D

.1T46*PDT003A	FLT-1A DIFF PRESSURE					*H,M	.*A
	ROSEMOUNT	1E	K-15				.*180 DYS
	ROSEMOUNT		RBS	00112.	MR		
	1152DP3A22PB	406	310773				

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			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
	RELOCATION BY FIELD REQUIRED						
.1T46*PDT003B	FLT-1B DIFF PRESSURE		.			*H,M	.*A
	ROSEMOUNT	1E	. K-15	.	.		.*180 DYS
	ROSEMOUNT		. RBS	00112.	MR .		.
	1152DP3A22PB	406	. 310773	.	.		.
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
	RELOCATION BY FIELD REQUIRED						
.1T46*PDT043A	REACTOR BLDG DIFF		.			*H,M	.*A
	ROSEMOUNT	1E	. H-20	.	.		.*180 DYS
	ROSEMOUNT		. RBS	00220.	MR .		.
	1152DP3A22PB	406	. 310773	.	.		.
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1T46*PDT043B	REACTOR BLDG DIFF		.			*H,M	.*A
	ROSEMOUNT	1E	. H-20	.	.		.*180 DYS
	ROSEMOUNT		. RBS	00220.	MR .		.
	1152DP3A22PB	406	. 310773	.	.		.
			.			*L	.*A
			.	.	.		.*180 DYS
			.	.	.		.
			.	.	.		.
.1T48*FT005	HEPA FILTER INLET		.			H,M	. B
	ROSEMOUNT	1E	. J-15	.*	.		. 180 DYS
	ROSEMOUNT		. RBS	00113.*	MR .		.
	1152DP3A22PB	406	. 310773	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.

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.1C61*LT026	SUPP POOL		.		H,M	. B
	ROSEMOUNT	1E	. G-01	.		. 180 DYS
	ROSEMOUNT		. RBS 00008.	MR		.
	1152DP4A22PB	406	. 310773	.		.
			.		L	. B
			.	.		. 180 DYS
			.	.		.
			.	.		.
1G11*FT647C	LEAKAGE RETURN PP P-270C DISCH.		.		H,M	. B
	ROSEMOUNT	1E	. G-01	.		. 180 DYS
	ROSEMOUNT		. RBS 00008.	MR		.
	1152DP4A22PB	406	. 310773	.		.
			.		L	. B
			.	.		. 180 DYS
			.	.		.
			.	.		.
.1P41*FT151A	RHR SERV WTR RAD MON SAMPLE		.		*H,M	.*B
	ROSEMOUNT	1E	. G-01	.*		.*180 DYS
	ROSEMOUNT		. RBS 00008.	*MR		.
	1152DP4A22PB	406	. 10080	.		.
.1P41*FT151B	RHR SERV WTR RAD MON SAMPLE		.		*H,M	.*B
	ROSEMOUNT	1E	. G-01	.*		.*180 DYS
	ROSEMOUNT		. RBS 00008.	*MR		.
	1152DP4A22PB	406	. 10080	.		.
1Z93*LT001A	SUPPRESSION POOL LEV XMTR		.		H,M	. A
	ROSEMOUNT	1E	. G-01	.		. 180 DYS
	ROSEMOUNT	RG	. RBS 00008.	MR		.
	1152DP4A22PB	406	. 310773	.		.
			.		L	. A
			.	.		. 180 DYS
			.	.		.
			.	.		.
1Z93*LT001B	SUPPRESSION POOL LEV XMTR		.		H,M	. A
	ROSEMOUNT	1E	. G-01	.		. 180 DYS
	ROSEMOUNT	RG	. RBS 00008.	MR		.
	1152DP4A22PB	406	. 310773	.		.

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			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
.1Z93*LT012A	SUPPRESSION POOL LEVEL		.		H,M	. A
	*ROSEMOUNT	1	.	.*406-02 .		. 180 DYS
	*ROSEMOUNT	*	.*RBS *00047.	*EQ .		.
	*1152DP4E22PB	406	. 310773	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
.1Z93*LT012B	SUPPRESSION POOL LEVEL		.		H,M	. A
	*ROSEMOUNT	1	.	.*406-02 .		. 180 DYS
	*ROSEMOUNT	*	.*RBS *00047.	*EQ .		.
	*1152DP4E22PB	406	. 310773	. .		.
			.		L	. A
			. . .			. 180 DYS
			. . .			.
			. . .			.
*1P41*FT146A	1P42*E011A OUTLET FLOW		.		*H,M	.*B
1P41-FT146A	ROSEMOUNT	2E	. G-01	.* .		.*180 DYS
EQUIP ID CHGD	ROSEMOUNT		. RB 00008.	*NR .		.
	1152DP5A22PB	406	. 10088	. .		.
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			.
*1P41*FT146B	1P42*E011B OUTLET FLOW		.		*H,M	.*B
1P41-FT146B	ROSEMOUNT	2E	. G-01	.* .		.*180 DYS
EQUIP ID CHGD	ROSEMOUNT		. RB 00008.	*NR .		.
	1152DP5A22PB	406	. 10088	. .		.
			.		*L	.*B
			. . .			.*180 DYS
			. . .			.
			. . .			.

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.1C61*PT106	SRV AIR HEADER PRESS	1E	G-10			H,M	B
	ROSEMOUNT		RBS	00101.	MR		180 DYS
	1152GP7A22PB	406	310773				
						L	B
							180 DYS
.1E41*PT142	TO LUBE OIL COOLER					H,M	A
	ROSEMOUNT	1E	G-01		*		012 HRS
	ROSEMOUNT		RBS	00008.	*MR		
	1152GP7A22PB	406	310773				
						L	A
							012 HRS
.1E51*PT142	LUBE OIL COOLER CONT VALVE					*H,M	*B
	ROSEMOUNT	1E	G-01		*		*180 DYS
	ROSEMOUNT		RBS	00008.	*MR		
	1152GP7A22PB	406	310773				
						*L	*B
							*180 DYS
.1P50*PT116A	SERVICE AIR HEADER A					H,M	A
04530008	ROSEMOUNT	1E	G-10				180 DYS
	ROSEMOUNT	RG	RBS	151.	MR		
	1152GP7A22PB	406	310773				
						L	A
							180 DYS
.1P50*PT116B	SERVICE AIR HEADER B					H,M	A
04560008	ROSEMOUNT	1E	G-12				180 DYS
	ROSEMOUNT	RG	RBS	151.	MR		
	1152GP7A22PB	406	310773				

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						L	. A . 180 DYS
.1B21*PT153J	RV092J MONITOR ROSEMOUNT ROSEMOUNT 1152GP7E22PB	1E *RG 406	G-09 RBS 310773	00040.	406-02 EQ	*H,M *L	.*A .*180 DYS
.1B21*PT153K	RV092K MONITOR ROSEMOUNT ROSEMOUNT 1152GP7E22PB	1E *RG 406	L-02 RBS 310773	00040.	406-02 EQ	*H,M *L	.*A .*180 DYS
.1B21*PT153L	SRV MONITOR L ROSEMOUNT ROSEMOUNT 1152GP7E22PB	1E *RG 406	G-10 RBS 310773	00040.	406-02 EQ	*H,M *L	.*A .*180 DYS
.1B21*PT153A	RV092A MONITOR ROSEMOUNT ROSEMOUNT 1152GP7E22TO280PB	1E *RG 406	G-09 RBS 310773	00008.	406-02 EQ	*H,M *L	.*A .*180 DYS

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.1B21*PT153B	RV092BMONITOR		.			*H,H	.*A
	ROSEMOUNT	1E	. G-09		. 406-02 .		.*180 DYS
	ROSEMOUNT	*RG	. RBS	00008.	EQ .		.
	1152GP7E22TO280PB	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1B21*PT153C	RV092C MONITOR		.			*H,H	.*A
	ROSEMOUNT	1E	. G-09		. 406-02 .		.*180 DYS
	ROSEMOUNT	*RG	. RBS	00008.	EQ .		.
	1152GP7E22TO280PB	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1B21*PT153D	RV092D MONITOR		.			*H,H	.*A
	ROSEMOUNT	1E	. G-09		. 406-02 .		.*180 DYS
	ROSEMOUNT	*RG	. RBS	00008.	EQ .		.
	1152GP7E22TO280PB	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1B21*PT153E	SRV MONITOR E		.			*H,H	.*A
	ROSEMOUNT	1E	. G-09		. 406-02 .		.*180 DYS
	ROSEMOUNT	*RG	. RBS	40.	EQ .		.
	1152GP7E22TO280PB	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1B21*PT153F	RV092F MONITOR		.			*H,H	.*A
	ROSEMOUNT	1E	. G-09		. 406-02 .		.*180 DYS
	ROSEMOUNT	*RG	. RBS	00040.	EQ .		.
	1152GP7E22TO280PB	406	. 310773		. .		.

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					*L	.*A
						.*180 DYS
.1B21*PT153G	RV092G MONITOR				*H,M	.*A
	ROSEMOUNT	1E	G-09	406-02		.*180 DYS
	ROSEMOUNT	*RG	RBS 00040.	EQ		
	1152GP7E22T0280PB	406	310773			
					*L	.*A
						.*180 DYS
.1B21*PT153H	RV092H MONITOR				*H,M	.*A
	ROSEMOUNT	1E	G-09	406-02		.*180 DYS
	ROSEMOUNT	*RG	RBS 00040.	EQ		
	1152GP7E22T0280PB	406	310773			
					*L	.*A
						.*180 DYS
1Z93*PT003A	DRYWELL PRESSURE				H,M	. A
	ROSEMOUNT	1E	G-10	406-01		. 180 DYS
	ROSEMOUNT	RG	RBS 00078.	EQ		
	1153GB7A22PB	406	310773			
					L	. A
						. 180 DYS
	OP CODE B FOR HELB & MELB					
1Z93*PT003B	DRYWELL & SUPPRESSION POOL PRE.				H,M	. A
	ROSEMOUNT	1E	G-12	406-01		. 180 DYS
	ROSEMOUNT	RG	RBS 00078.	EQ		
	1153GB7A22PB	406	310773			
					L	. A
						. 180 DYS
	OP CODE B FOR HELB & MELB					

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1Z93*PT004A	SUPPRESSION POOL ACCESS HATCH	1E	G-02		406-01	H,M	A
	ROSEMOUNT	RG	RBS	00040.	EQ		180 DYS
	1153GB7A22PB	406	310773				
						L	A
							180 DYS
1Z93*PT004B	SUPPRESSION POOL ACCESS HATCH					H,M	A
	ROSEMOUNT	1E	G-02		406-01		180 DYS
	ROSEMOUNT	RG	RBS	00063.	EQ		
	1153GB7A22PB	406	310773				
						L	A
							180 DYS
1Z93*TE110W	RV092ACL DISCHARGE 1FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT		RBD	00028.	EQ		
	88-149-1	406	310773				
						L	A
							180 DYS
1Z93*TE110X	RV092ACL DISCHARGE 1FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT		RBD	00028.	EQ		
	88-149-1	406	310773				
						L	A
							180 DYS
1Z93*TE110Y	RV092ACL DISCHARGE 1FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT		RBD	00025.	EQ		
	88-149-1	406	310773				

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						L	A
							180 DYS
1Z93*TE110Z	RV092ACL DISCHARGE 1FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT		RBD	00025.	EQ		
	88-149-1	406	310773				
						L	A
							180 DYS
.1Z93*TE111W	RV092BDE DISCHARGE 1FT					H,M	A
	*ROSEMOUNT	*1E	*E-23		*406-03		180 DYS
	*ROSEMOUNT	*	RBD	25.	*EQ		
	88-149-1	406	310773				
						L	A
							180 DYS
.1Z93*TE111X	RV092BDE DISCHARGE 1FT					H,M	A
	*ROSEMOUNT	*1E	*E-23		*406-03		180 DYS
	*ROSEMOUNT	*	RBD	25.	*EQ		
	88-149-1	406	310773				
						L	A
							180 DYS
.1Z93*TE111Y	RV092BDE DISCHARGE 1FT					H,M	A
	*ROSEMOUNT	*1E	*E-23		*406-03		180 DYS
	*ROSEMOUNT	*	RBD	25.	*EQ		
	88-149-1	406	310773				
						L	A
							180 DYS

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.1Z93*TE111Z	RV092BDE DISCHARGE 1FT		.		H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03 .		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ .		.
	88-149-1	406	. 310773	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1Z93*TE112H	RV092KG DISCHARGE 1FT		.		H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03 .		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ .		.
	88-149-1	406	. 310773	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1Z93*TE112X	RV092KG DISCHARGE 1FT		.		H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03 .		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ .		.
	88-149-1	406	. 310773	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1Z93*TE112Y	RV092KG DISCHARGE 1FT		.		H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03 .		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ .		.
	88-149-1	406	. 310773	. .		.
			.		L	. A
			.	. .		. 180 DYS
			.	. .		.
			.	. .		.
.1Z93*TE112Z	RV092KG DISCHARGE 1FT		.		H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03 .		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ .		.
	88-149-1	406	. 310773	. .		.

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		.	.	.	.	L	. A
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.
.1Z93*TE113H	RV092FHJ DISCHARGE 1FT	.	.	.	.	H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03	.		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ	.		.
	88-149-1	406	. 310773	.	.		.
		.	.	.	.	L	. A
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.
.1Z93*TE113X	RV092FHJ DISCHARGE 1FT	.	.	.	.	H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03	.		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ	.		.
	88-149-1	406	. 310773	.	.		.
		.	.	.	.	L	. A
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.
.1Z93*TE113Y	RV092FHJ DISCHARGE 1FT	.	.	.	.	H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03	.		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ	.		.
	88-149-1	406	. 310773	.	.		.
		.	.	.	.	L	. A
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.
.1Z93*TE113Z	RV092FHJ DISCHARGE 1FT	.	.	.	.	H,M	. A
	*ROSEMOUNT	*1E	.*E-23	.*406-03	.		. 180 DYS
	*ROSEMOUNT	*	. RBD	25.*EQ	.		.
	88-149-1	406	. 310773	.	.		.
		.	.	.	.	L	. A
		.	.	.	.		. 180 DYS
		.	.	.	.		.
		.	.	.	.		.

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1Z93*TE132A	RV092ACL DISCHARGE 2FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT	RG	RBD	25.	EQ		
	88-149-2	406	310773				
						L	A
							180 DYS
1Z93*TE132B	RV092ACL DISCHARGE 2FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT	RG	RBD	25.	EQ		
	88-149-2	406	310773				
						L	A
							180 DYS
1Z93*TE133A	RV092BDE DISCHARGE 2FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT	RG	RBD	25.	EQ		
	88-149-2	406	310773				
						L	A
							180 DYS
1Z93*TE133B	RV092EDE DISCHARGE 2FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT	RG	RBD	25.	EQ		
	88-149-2	406	310773				
						L	A
							180 DYS
1Z93*TE134A	RV092KG DISCHARGE 2FT					H,M	A
	ROSEMOUNT	1E	E-23		406-03		180 DYS
	ROSEMOUNT	RG	RBD	25.	EQ		
	89-149-2	406	310773				

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					L	A
						180 DYS
1Z93*TE134B	RV092KG DISCHARGE 2FT				H,M	A
	ROSEMOUNT	1E	E-23	406-03		180 DYS
	ROSEMOUNT	RG	RBD 25.	EQ		
	88-149-2	406	310773			
					L	A
						180 DYS
1Z93*TE135A	RV092FHJ DISCHARGE 2FT				H,M	A
	ROSEMOUNT	1E	E-23	406-03		180 DYS
	ROSEMOUNT	RG	RBD 25.	EQ		
	88-149-2	406	310773			
					L	A
						180 DYS
1Z93*TE135B	RV092FHJ DISCHARGE 2FT				H,M	A
	ROSEMOUNT	1E	E-23	406-03		180 DYS
	ROSEMOUNT	RG	RBD 25.	EQ		
	88-149-2	406	310773			
					L	A
						180 DYS
.1T46*TE001B	RBSVS RECIRC AIR TEMP				*H,M	.*A
	ROSEMOUNT	1E	K-15	406-03		.*180 DYS
	ROSEMOUNT		RBS 112.	EQ		
	89-138-2/88-14-3	406	310773			
					*L	.*A
						.*180 DYS

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JOB NUMBER 1160002
JOB NAME SHOREHAM - UNIT 1
JOB CLIENT LILCO

STONE AND WEBSTER ENGINEERING CORPORATION
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.1T46*TE001A	RBSVS RECIRC AIR TEMP		.			*H,M	.*A
	ROSEMOUNT	1E	. K-15		. 406-03 .		.*180 DYS
	ROSEMOUNT		. RBS	112.	EQ .		.
	89-86-4/88-14-1	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*TE022A	AIR RETURN TO UC-2A		.			*H,M	.*A
	ROSEMOUNT	1E	. G-01		. 406-03 .		.*180 DYS
	ROSEMOUNT		. RBS	00010.	EQ .		.
	89-86-4/88-14-1	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*TE022B	AIR RETURN TO UC-2B		.			*H,M	.*A
	ROSEMOUNT	1E	. G-01		. 406-03 .		.*180 DYS
	ROSEMOUNT		. RBS	00042.	EQ .		.
	89-86-4/88-14-1	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*TE023A	AIR RETURN TO UC-3A		.			*H,M	.*A
	ROSEMOUNT	1E	. G-01		. 406-03 .		.*180 DYS
	ROSEMOUNT		. RBS	00012.	EQ .		.
	89-86-4/88-14-1	406	. 310773		. .		.
			.			*L	.*A
			.		. .		.*180 DYS
			.		. .		.
			.		. .		.
.1T46*TE023B	AIR RETURN TO UC-3B		.			*H,M	.*A
	ROSEMOUNT	1E	. G-02		. 406-03 .		.*180 DYS
	ROSEMOUNT		. RBS	00042.	EQ .		.
	89-86-4/88-14-1	406	. 310773		. .		.

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						*L	.*A
							.*180 DYS
.1T46*TE024A	AIR RETURN TO UC-4A					*H,M	.*A
	ROSEMOUNT	1E	H-20		406-03		.*180 DYS
	ROSEMOUNT		RBS	00220.	EQ		
	89-86-4/88-14-1	406	310773				
						*L	.*A
							.*180 DYS
.1T46*TE024B	AIR RETURN TO UC-4B					*H,M	.*A
	ROSEMOUNT	1E	H-20		406-03		.*180 DYS
	ROSEMOUNT		RBS	00220.	EQ		
	89-86-4/88-14-1	406	310773				
						*L	.*A
							.*180 DYS
.1T46*TE025A	AIR RETURN TO UC-5A					*H,M	.*A
	ROSEMOUNT	1E	H-20		406-03		.*180 DYS
	ROSEMOUNT		RBS	00220.	EQ		
	89-86-4/88-14-1	406	310773				
						*L	.*A
							.*180 DYS
.1T46*TE025B	AIR RETURN TO UC-5B					*H,M	.*A
	ROSEMOUNT	1E	H-20		406-03		.*180 DYS
	ROSEMOUNT		RBS	00220.	EQ		
	89-86-4/88-14-1	406	310773				
						*L	.*A
							.*180 DYS

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.1T46*TE028A	MCC RM UNIT COOLER		H-16		406-03	*H,M	.*A
	ROSEMOUNT	1E	RBS	00116.	EQ		.*180 DYS
	ROSEMOUNT		310773			*L	.*A
	89-86-4/88-14-3	406					.*180 DYS
.1T46*TE028B	MCC RM UNIT COOLER		J-15		406-03	*H,M	.*A
	ROSEMOUNT	1E	RBS	00116.	EQ		.*180 DYS
	ROSEMOUNT		310773			*L	.*A
	89-86-4/88-14-3	406					.*180 DYS
.1T46*TE059A	UC-21A UNIT CLEAR		H-19		406-03	*H,M	.*A
	ROSEMOUNT	1E	RBS	00155.	EQ		.*180 DYS
	ROSEMOUNT		310773			*L	.*A
	89-86-4/88-14-3	406					.*180 DYS
.1T46*TE059B	UC-21B UNIT CLEAR		H-18		406-03	*H,M	.*A
	ROSEMOUNT	1E	RBS	00155.	EQ		.*180 DYS
	ROSEMOUNT		310773			*L	.*A
	89-86-4/88-14-3	406					.*180 DYS
.1T46*TE060A	UC-22A UNIT CLEAR		H-18		406-03	*H,M	.*A
	ROSEMOUNT	1E	RBS	00160.	EQ		.*180 DYS
	ROSEMOUNT		310773				
	89-86-4/88-14-3	406					

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / ELEV / PO NUMBER	EQ SHEET / QUAL STAT	EMS COND / SUBMG	OPER CODE
					*L	.*A .*100 DYS
.1T46*TE060B	UC-22B UNIT CLEAR ROSEMOUNT ROSEMOUNT 89-86-4/89-14-3	1E 406	H-18 RBS 00160. 310773	406-03 EQ	*H,M	.*A .*180 DYS
					*L	.*A .*180 DYS

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STONE AND WEBSTER ENGINEERING CORPORATION
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REPORT GROUP MAK	= SCHUTTE & KOERTING							
1E32*FE037D	HSIV D LEAK TO LPM	.					L	. A
E32-N006P	GENERAL ELEC	1E	. G-06		. 3128	.		. 100 DYS
	SCHUTTE & KOERTING		. RBS	00065.	DR/IJ	.		.
		003	. 310010		.			.

OP CODE B FOR HELB & MELB

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REPORT GROUP MAK	= SQUARE D					
1E41*PS016	AUX OIL PMP TURB CONT OIL PRES.				H,M	A
PSI	GENERAL ELEC	1E	G-01			012 HRS
	SQUARE D		RBS 00008	TA/IJ		
	CLASS 9012, ACH-22	003	310010			2 PSIG
					L	A
						012 HRS
						2 PSIG

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REPORT GROUP MAK = SQUARE D CO.

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.1R24*PNL-R1	BREAKER DIST PNL (RED) SQUARE D SQUARE D CO. BREAKER DIST PNL	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*PNL-R2	BREAKER DIST PNL (RED) SQUARE D SQUARE D CO. BREAKER DIST PNL	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*PNL01	BREAKER DIST PNL (BLACK) SQUARE D SQUARE D CO. BREAKER DIST PNL H,M-OP CODE B 1 DAY, C REM. (NCC REV.)	1E 115	G-10 RBS 310535	00078.*TA/IJ		L	B 180 DYS
.1R24*PNL02	BREAKER DIST PNL (BLACK) SQUARE D SQUARE D CO. BREAKER DIST PNL H,M-OP CODE B 1 DAY, C REM. (NCC REV.)	1E 115	G-10 RBS 310535	00078.*TA/IJ		L	B 180 DYS
.1R24*PNL03	BREAKER DIST PNL (BLACK) SQUARE D SQUARE D CO. BREAKER DIST PNL H,M-OP CODE B 1 DAY, C REM. (NCC REV.)	1E 115	H-11 RBS 310535	00078.*TA/IJ		L	B 180 DYS
.1R24*PNL04	120VAC POWER PNL TO RSP SQUARE D SQUARE D CO. BREAKER DIST PNL	1E 115	N-21 RBS 310535	00112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC111W	MOTOR CONTROL CENTER SQUARE D CO. SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	150.*TA/IJ		ALL	A 180 DYS
.1R24*MCC111X	MOTOR CONTROL CENTER-LCP1 SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS

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EQUIPMENT ID / VENDOR ID	EQUIPMENT DESCRIPTION / VENDOR NAME / MAKE / MANUFACTURER / MODEL / CATALOG NO	QAC / NU-CAT / SPEC	ZONE / BLDG / PO NUMBER	ELEV	EQ SHEET / QUAL STAT	ENG COND / SUBMG	OPER CODE
.1R24*MCC111Y	MOTOR CONTROL CENTER-EMER SQUARE D CO. SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	H-09 RBS 310535	78.*TA/IJ		L	A 180 DYS
.1R24*MCC111Z	MOTOR CONTROL CENTER-EMER SQUARE D CO. SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	H-09 RBS 310535	78.*TA/IJ		L	A 180 DYS
.1R24*MCC112H	MOTOR CONTROL CENTER SQUARE D CO. SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	150.*TA/IJ		ALL	A 180 DYS
.1R24*MCC112X	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	H-12 RBS 310535	78.*TA/IJ		L	A 180 DYS
.1R24*MCC112Y	MOTOR CONTROL CENTER-LCP1 SQUARE D CO. SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC1111	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	G-02 RBS 310535	40.*TA/IJ		L	A 180 DYS
.1R24*MCC1112	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC1113	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS

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.1R24*MCC1114	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	H-18 RBS 310535	150.*TA/IJ		L	A 180 DYS
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1R24*MCC1117	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	G-02 RBS 310535	40.*TA/IJ		L	A 180 DYS
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1R24*MCC1118	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC1119	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	L-02 RBS 310535	40.*TA/IJ		L	A 180 DYS
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1R24*MCC1121	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	G-02 RBS 310535	40.*TA/IJ		L	A 180 DYS
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1R24*MCC1122	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC1123	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 310535	112.*TA/IJ		ALL	A 180 DYS
.1R24*MCC1124	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	H-18 RBS 310535	150.*TA/IJ		L	A 180 DYS
	H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						

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.1R24*MCC1127	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	G-02 RBS 40.*TA/IJ 310535		L	A 180 DYS
.1R24*MCC1128	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 112.*TA/IJ 310535		ALL	A 180 DYS
.1R24*MCC1129	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4 H,M-OP CODE B 1 DAY, C REM. (MCC REV.)	1E 115	L-02 RBS 40.*TA/IJ 310535		L	A 180 DYS
.1R24*MCC1131	MOTOR CONTROL CENTER-EMER SQUARE D CO SQUARE D CO. MODEL 4	1E 115	N-21 RBS 150.*TA/IJ 310535		ALL	A 180 DYS
.1R24*MST11D1	MOTOR STR FOR SUMP PUMP SYS *SQUARE D *SQUARE D CO. SIZE 5 460V	*1E 115	.*L-02 .*RBS *00040.*TA/IJ 310535		*H,H *L	.*B .*180 DYS
.1R24*MST12D1	MOTOR STR FOR SUMP PUMP SYS *SQUARE D *SQUARE D CO. SIZE 5 460V	*1E 115	.*G-02 .*RBS *00040.*TA/IJ 310535		*H,H *L	.*B .*180 DYS
.1R24*PNL-B1	BREAKER DIST PNL (BLUE) SQUARE D SQUARE D CO. 480V PNL	1E 115	N-21 RBS 00112.*TA/IJ 310535		ALL	A 180 DYS

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.1R24*PNL-G1	BREAKER DIST PNL (GREEN) SQUARE D SQUARE D CO. 480V PNL	1E 115	N-21 RBS 310535	00112.	*TA/IJ	ALL	A 180 DYS
.1R24*PNL-Y1	BREAKER DIST PNL (YELLOW) SQUARE D SQUARE D CO. 480V PNL	1E 115	N-21 RBS 310535	112.	*TA/IJ	ALL	A 180 DYS
.1E41*LS095	COND&VAC TK F-36 GENERAL ELEC SQUARE D CO. *9036	1E 003	G-01 RBS 310010	00008.	TA/IJ	H,M L	A 012 HRS A 012 HRS
.1E51*LS095H	COND & VAC TK E-38 GENERAL ELEC SQUARE D CO. 9030-AG154	1E 003	G-01 RBS 310010	8.	TA/IJ	*H,M *L	.*B .*180 DYS .*B .*180 DYS

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REPORT GROUP MAK = STATIC-O-RING

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1B31*PS023A	RECIRC SUC PR RHR VLV INTLK		.		L	. A
B31-N018A	GENERAL ELEC	1E	. G-02	. 3032 .		. 007 DYS
	STATIC-O-RING		. RBS 00040.	EQ .		.
	5N-AA3-X10STT	003	. 310010	. .		. .5%
	OP CODE B FOR HELB & MELB					
1B31*PS023B	RECIRC SUC PR RHR VLV INTLK		.		L	. A
B31-N018B	GENERAL ELEC	1E	. G-02	. 3032 .		. 007 DYS
	STATIC-O-RING		. RBS 00040.	EQ .		.
	5N-AA3-X10STT	003	. 310010	. .		. .5%
	OP CODE B FOR HELB & MELB					
.1E51*PS023A	RCIC AUTO ISOLATION		.		*H,M	.*B
E51-N019A	GENERAL ELEC	1E	. L-02	. 3032 .		.*180 DYS
	STATIC-O-RING		. RBS 00040.	EQ .		.
	5N-AA3-X10STT	003	. 310010	. .		. *13%
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		. *13%
.1E51*PS023B	RCIC AUTO ISOLATION		.		*H,M	.*B
E51-N019B	GENERAL ELEC	1E	. L-02	. 3032 .		.*180 DYS
	STATIC-O-RING		. RBS 00040.	EQ .		.
	5N-AA3-X10STT	003	. 310010	. .		. *13%
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		. *13%
.1E51*PS023C	RCIC AUTO ISOLATION		.		*H,M	.*B
E51-N019C	GENERAL ELEC	1E	. L-02	. 3032 .		.*180 DYS
	STATIC-O-RING		. RBS 00040.	EQ .		.
	5N-AA3-X10STT	003	. 310010	. .		. *13%
			.		*L	.*B
			. .	.		.*180 DYS
			. .	.		.
			. .	.		. *13%

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.1E51*PS023D	RCIC AUTO ISOLATION						*H,M	.*B
E51-N019D	GENERAL ELEC	1E	L-02		3032			.*180 DYS
	STATIC-O-RING		RBS	00040.	EQ			.
	5N-AA3-X10STT	003	310010					. *13%
							*L	.*B
								.*180 DYS
								.
								. *13%
.1E41*PS021L	HPCI PUMP SUCT						H,M	. A
E41-N010	GENERAL ELEC	1E	G-01		3032			. 012 HRS
	STATIC-O-RING		RBS	00008.	EQ			.
	*6N-AA21-X10STT	003	310010					.
							L	. A
								. 012 HRS
								.
								.
.1E51*PS021L	RCIC PUMP SUCTION						*H,M	.*B
E51-N006	GENERAL ELEC	1E	G-01		3032			.*180 DYS
	STATIC-O-RING		RBS	00008.	EQ			.
	6N-AA21-X10VSTT	003	310010					.
							*L	.*B
								.*180 DYS
								.
								.

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REPORT GROUP MAK	= SYSTEMS CONTROL					
1R35*PNL-B2	120VAC DIST PNL REAC BLDG				ALL	A
	SYSTEM CONT	1E	N-21	124-01		180 DYS
	SYSTEMS CONTROL		RBS 112.	EQ		
	120-VAC-DIST-PNL	124	310713			N/A
	REQUIRED 6 MONTH ACCIDENT DOSE REDUCED TO 1.0E5 PER CALCULATION SNPS-1-UR-21-N					
1R35*PNL-R2	120VAC DIST PNL REAC BLDG				ALL	A
	SYSTEM CONT	1E	N-21	124-01		180 DYS
	SYSTEMS CONTROL		RBS 112.	EQ		
	120-VAC-DIST-PNL	124	310713			N A
	REQUIRED 6 MONTH ACCIDENT DOSE REDUCED TO 1.0E5 PER CALCULATION SNPS-1-UR-21-N					

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JOB CLIENT LILCO

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REPORT GROUP MAK	= TARGET ROCK						
.1B21*SOV92AX B21-F013A	ADS VLV 1B21*RV-92A SOV A GENERAL ELECT TARGET ROCK 1/2 SMS-A-01	1E 003	B-22 RBD 310010	00102.*	3904 FT/IJ	H,M	A 180 DYS
						L	A 180 DYS
.1B21*SOV92AY B21-F013A	ADS VLV 1B21*RV-92A SOV B GENERAL ELECT TARGET ROCK 1/2 SMS-A-01	1E 003	B-22 RBD 310010	00102.*	3904 FT/IJ	H,M	A 180 DYS
						L	A 180 DYS
.1B21*SOV92BX B21-F013B	ADS VLV 1B21*RV-92B SOV A GENERAL ELECT TARGET ROCK 1/2 SMS-A-01	1E 003	B-22 RBD 310010	00102.*	3904 FT/IJ	H,M	A 180 DYS
						L	A 180 DYS
.1B21*SOV92BY B21-F013B	ADS VLV 1B21*RV-92B SOV B GENERAL ELECT TARGET ROCK 1/2 SMS-A-01	1E 003	B-22 RBD 310010	00102.*	3904 FT/IJ	H,M	A 180 DYS
						L	A 180 DYS

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.1B21*SOV92CX	ADS VLV 1B21*RV-92C SOV A				H,M	B
B21-F013C	GENERAL ELECT	1E	B-22	3904		180 DYS
	TARGET ROCK		RBD 00102.	*FT/IJ		
	1/2 SMS-A-01	003	310010			
					L	B
						180 DYS
.1B21*SOV92DX	ADS VLV 1B21*RV-92D SOV A				H,M	B
B21-F013D	GENERAL ELECT	1E	B-22	3904		180 DYS
	TARGET ROCK		RBD 00102.	*FT/IJ		
	1/2 SMS-A-01	003	310010			
					L	B
						180 DYS
.1B21*SOV92EX	ADS VLV 1B21*RV-92E SOV A				H,M	B
B21-F013E	GENERAL ELECT	1E	B-22	3904		180 DYS
	TARGET ROCK		RBD 00102.	*FT/IJ		
	1/2 SMS-A-01	003	310010			
					L	A
						180 DYS
.1B21*SOV92EY	ADS VLV 1B21*RV-92E SOV B				H,M	A
B21-F013E	GENERAL ELECT	1E	B-22	3904		180 DYS
	TARGET ROCK		RBD 00102.	*FT/IJ		
	1/2 SMS-A-01	003	310010			
					L	A
						180 DYS
.1B21*SOV92FX	ADS VLV 1B21*RV-92F SOV A				*H,M	.*B
B21-F013F	GENERAL ELECT	1E	B-22	3904		.*180 DYS
	TARGET ROCK		RBD 00102.	*FT/IJ		
	1/2 SMS-A-01	003	310010			

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			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1B21*SOV92GX	ADS VLV 1B21*RV-92G SOV A		.			H,M	. B
B21-F013G	GENERAL ELECT	1E	. B-22	. 3904	.		. 180 DYS
	TARGET ROCK		. RBD	00102.*FT/IJ	.		.
	1/2 SMS-A-01	003	. 310010	.	.		.
			.			L	. B
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1B21*SOV92HX	ADS VLV 1B21*RV-92H SOV A		.			H,M	. A
B21-F013H	GENERAL ELECT	1E	. B-22	. 3904	.		. 180 DYS
	TARGET ROCK		. RBD	00102.*FT/IJ	.		.
	1/2 SMS-A-01	003	. 310010	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1B21*SOV92HY	ADS VLV 1B21*RV-92H SOV B		.			H,M	. A
B21-F013H	GENERAL ELECT	1E	. B-22	. 3904	.		. 180 DYS
	TARGET ROCK		. RBD	00102.*FT/IJ	.		.
	1/2 SMS-A-01	003	. 310010	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.
.1B21*SOV92JX	ADS VLV 1B21*RV-92J SOV A		.			H,M	. A
B21-F013J	GENERAL ELECT	1E	. B-22	. 3904	.		. 180 DYS
	TARGET ROCK		. RBD	00102.*FT/IJ	.		.
	1/2 SMS-A-01	003	. 310010	.	.		.
			.			L	. A
			.	.	.		. 180 DYS
			.	.	.		.
			.	.	.		.

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.1B21*SOV92JY	ADS VLV 1B21*RV-92J SOV B					H,M	A
B21-F013J	GENERAL ELECT	1E	B-22	3904			180 DYS
	TARGET ROCK		RBD	00102.*FT/IJ			
	1/2 SNS-A-01	003	310010				
						L	A
							180 DYS
.1B21*SOV92KX	ADS VLV 1B21*RV-92K SOV A					H,M	A
B21-F013K	GENERAL ELECT	1E	B-22	3904			180 DYS
	TARGET ROCK		RBD	00102.*FT/IJ			
	1/2 SNS-A-01	003	310010				
						L	A
							180 DYS
.1B21*SOV92KY	ADS VLV 1B21*RV-92K SOV B					H,M	A
B21-F013K	GENERAL ELECT	1E	B-22	3904			180 DYS
	TARGET ROCK		RBD	00102.*FT/IJ			
	1/2 SNS-A-01	003	310010				
						L	A
							180 DYS
.1B21*SOV92LX	ADS VLV 1B21*RV-92L SOV A					H,M	A
B21-F013L	GENERAL ELECT	1E	B-22	3904			180 DYS
	TARGET ROCK		RBD	00102.*FT/IJ			
	1/2 SNS-A-01	003	310010				
						L	A
							180 DYS
.1B21*SOV92LY	ADS VLV 1B21*RV-92L SOV B					H,M	A
B21-F013L	GENERAL ELECT	1E	B-22	3904			180 DYS
	TARGET ROCK		RBD	00102.*FT/IJ			
	1/2 SNS-A-01	003	310010				

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**********	**********	**********	**********	**********	**********	**********
	.				L	. A
	.		.	.		. 180 DYS
	.		.	.		.
	.		.	.		.

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REPORT GROUP MAK = TERRY						
.1E41*TU002	HPCI TURBINE GE-TERRY TURB TERRY GS-1	1E 003	G-01 RBS 310010	.* 8. TA/IJ	H,M L	. A . 012 HRS . A . 012 HRS
	THE TURBINE ITSELF IS A MECH. ITEM BUT IT HAS ELECT. COMP. ASSOCIATED W/IT THAT DON'T HAVE MARK NOS					
.1E51*TU005	RCIC TURBINE GE-TERRY TURB TERRY GS-1	1E 003	G-01 RBS 00008. ****		*H,M *L	.*B .*180 DYS .*B .*180 DYS
	THE TURBINE ITSELF IS A MECH. ITEM BUT IT HAS ELEST. COMP. ASSOCIATED W/IT THAT DONT HAVE MARK NOS.					

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REPORT GROUP MAK = VALCOR

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1T48*SOV131	ATMOSPHERE SAMPLE	.			H,M	. B
	VALCOR	1E	. H-11	. 15.54-01 .		. 180 DYS
	VALCOR		. RBS 00063.	EQ .		.
	V105-205	15.54.	310979	. .		.
		.			L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
.1T48*SOV130	ATMOSPHERE SAMPLE	.			H,M	. B
	VALCOR	1	. G-02	. .		. 180 DYS
	VALCOR		. RBS 00063.	*DR/IJ .		.
	V105-305	15.54.	310979	. .		.
		.			L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
1T48*SOV126B	ATMOSPHERE SAMPLE	.			H,M	. B
	VALCOR	1E	. G-03	. 15.54-01 .		. 180 DYS
	VALCOR		. RBS 00063.	EQ .		.
	V526-5295-61	15.54.	310979	. .		.
		.			L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
1T48*SOV127B	ATMOSPHERE SAMPLE	.			H,M	. B
	VALCOR	1E	. L-02	. 15.54-01 .		. 180 DYS
	VALCOR		. RBS 00040.	EQ .		.
	V526-5295-61	15.54.	310979	. .		.
		.			L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.

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1T48*SOV128B	ATMOSPHERE SAMPLE					H,M	B
	VALCOR	1E	G-10		15.54-01		180 DYS
	VALCOR		RBS	00078.	EQ		
	V526-5295-61	15.54.	310979				
						L	A
							180 DYS
1T48*SOV129B	ATMOSPHERE SAMPLE					H,M	B
	VALCOR	1E	G-02		15.54-01		180 DYS
	VALCOR		RBS	00040.	EQ		
	V526-5295-61	15.54.	310979				
						L	A
							180 DYS
1T48*SOV126A	ATMOSPHERE SAMPLE					H,M	B
	VALCOR	1E	G-03		15.54-01		180 DYS
	VALCOR		RBS	00063.	EQ		
	V526-5295-62	15.54.	310979				
						L	A
							180 DYS
1T48*SOV127A	ATMOSPHERE SAMPLE					H,M	B
	VALCOR	1E	G-02		15.54-01		180 DYS
	VALCOR		RBS	00040.	EQ		
	V526-5295-62	15.54.	310979				
						L	A
							180 DYS
1T48*SOV128A	ATMOSPHERE SAMPLE					H,M	B
	VALCOR	1E	G-10		15.54-01		180 DYS
	VALCOR		RBS	00078.	EQ		
	V526-5295-62	15.54.	310979				

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		.	.	.	L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
1T48*SOV129A	ATMOSPHERE SAMPLE	.	.	.	H,M	. B
	VALCOR	1E	. L-02	. 15.54-01	.	. 180 DYS
	VALCOR	.	RBS 00040.	EQ	.	.
	V526-5295-62	15.54.	310979	.	.	.
		.	.	.	L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
.1T48*SOV136A	SUPPRESSION CHAMBER SAMPLE	.	.	.	H,M	. B
SV-6	*VALCOR	1E	.	.*15.54-01	.	. 180 DYS
	*VALCOR	*	. RBS *00112.	*EQ	.	.
	*V526-5295-63	*15.54.	310979	.	.	.
		.	.	.	L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
.1T48*SOV136B	SUPPRESSION CHAMBER SAMPLE	.	.	.	H,M	. B
SV-6	*VALCOR	1E	.	.*15.54-01	.	. 180 DYS
	*VALCOR	*	. RBS *00112.	*EQ	.	.
	*V526-5295-63	*15.54.	310979	.	.	.
		.	.	.	L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.
.1T48*SOV137A	H2 RECOMBINER DISCH SAMPLE	.	.	.	H,M	. B
SV-7	*VALCOR	1E	. J-16	.*15.54-01	.	. 180 DYS
	*VALCOR	*	. RBS *00112.	*EQ	.	.
	*V526-5295-63	*15.54.	310979	.	.	.
		.	.	.	L	. A
		.	.	.		. 180 DYS
		.	.	.		.
		.	.	.		.

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.1T48*SOV137B	H2 RECOMBINER DISCH SAMPLE						H,M	B
SV-7	*VALCOR	1E	J-16		.*15.54-01			180 DYS
	*VALCOR	*	RBS	*00112.	*EQ			
	*V526-5295-63	*15.54.	310979					
							L	A
								180 DYS
.1B21*SOV313A	SAMPLE PP SUPPRESS POOL RETURN.						H,M	A
	VALCOR	1E	G-12		15.54-01			180 DYS
	VALCOR		RBS	00078.	EQ			
	V526-5683-26	15.54.	310979					
							L	A
								180 DYS
.1B21*SOV314A	*CHANGED TO 1Z91*SOV045						ALL	A
	VALCOR	1E	G-12		15.54-01			180 DYS
	VALCOR		RBS	00078.	EQ			
	V526-5683-26	15.54.	310979					NA
1E11*SOV166A	LQD SAMPLE RHR						H,M	A
	VALCOR	1E	G-01		15.54-01			180 DYS
	VALCOR		RBS	00008.	EQ			
	V526-5683-27	15.54.	310979					
							L	A
								070 MIN
1E11*SOV167A	LQD SAMPLE RHR						H,M	A
	VALCOR	1E	G-02		15.54-01			180 DYS
	VALCOR		RBS	00040.	EQ			
	V526-5683-27	15.54.	310979					
							L	A
								070 MIN

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.1B21*SOV313B	SAMPLE PP SUPPRESS POOL RETURN.					H,M	A
	VALCOR	1E	G-12		15.54-01		180 DYS
	VALCOR		RBS	00078.	EQ		
	V526-5683-28	15.54.	310979				
						L	A
							180 DYS
.1B21*SOV314B	*CHANGED TO 1Z91*SOV046					ALL	A
	VALCOR	1E	G-12		15.54-01		180 DYS
	VALCOR		RBS	00078.	EQ		
	V526-5683-28	15.54.	310979				NA
1E11*SOV168	SAMPLE PP SUPRESS POOL RETURN .					H,M	A
	VALCOR	1E	G-01		15.54-01		180 DYS
	VALCOR		RBS	00008.	EQ		
	V526-5683-29	15.54.	310979				
						L	A
							180 DYS
1E11*SOV169	SAMPLE PP SUPRESS POOL RETURN .					H,M	A
	VALCOR	1E	G-01		15.54-01		180 DYS
	VALCOR		RBS	00008.	EQ		
	V526-5683-29	15.54.	310979				
						L	A
							180 DYS
1E11*SOV166B	LOD SAMPLE RHR					H,M	A
	VALCOR	1E	G-02		15.54-01		180 DYS
	VALCOR		RBS	00040.	EQ		
	V526-5683-30	15.54.	310979				
						L	A
							070 MIN

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STONE AND WEBSTER ENGINEERING CORPORATION
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1E11*SOV167B	LQD SAMPLE PHR				H,M	A
	VALCOR	1E	G-02	15.54-01		180 DYS
	VALCOR		RBS 00040.	EQ		
	V526-5683-30	15.54.	310979			
					L	A
						070 MIN
.1C51*SOV028	TIP N2 CONTROL				H,M	B
	*VALCOR	*1E	.*H-13			180 DYS
	*VALCOR	RG	.*RBS *00076.	*DR/IJ		
	*V526-5683-32	*15.54.	*310979			
					L	A
						070 MIN

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REPORT GROUP MAK	= WESTINGHOUSE						
.1T46*FN837A	1T46*UC-020A FAN BUFFALO FORGE WESTINGHOUSE 143T	 1E 276	 J-16 RBS 310556	 00112.*DR 	 	ALL	A 180 DYS N/A
.1T46*FN837B	1T46*UC-020B FAN BUFFALO FORGE WESTINGHOUSE 143T	 1E 276	 K-15 RBS 310556	 00112.*DR 	 	ALL	A 180 DYS N/A
	REQUIRED RAD LEVEL REDUCED TO 6.0E07, PER CALCS SNPS-1-UR-17-B REV 2, AND SNPS-1-UR-18-A REV 1.						
.1D11-BL0011	STATION VENT EXH BLOWER N.M.C. WESTINGHOUSE 143T (PN 2058351)	 2 * 332	 H-20 RBS 310702	 00175.*IJ 	 	H,M L 	A 180 DYS A 180 DYS
	CAT. II EQUIPMENT NOT 1E POWERED						
1T46*FN023	1T46*UC-023 FAN BUFFALO FORGE WESTINGHOUSE 143TCZ	 1E 276	 L-02 RBS 310556	 276-01 00040. EQ 	 	L	A 180 DYS N/A
.1E21*P049A	CORE SPRAY LEV PP C-10 GOULD PUMP WESTINGHOUSE 213T	 1E 235	 G-01 RBS 310545	 *235-01 8.*EQ 	 	H,M L 	B 180 DYS A 180 DYS
.1E21*P049B	CORE SPRAY LEV PP-C-6 GOULD PUMP WESTINGHOUSE 213T	 1E 235	 G-01 RBS 310545	 *235-01 8.*EQ 	 	H,M	B 180 DYS

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			.			L	. A
			. .		.		. 180 DYS
			. .		.		.
			. .		.		.
.1E41*P050	HPCI LOOP LVL PUMP		.			H,M	.*B
	GOULD PUMP	1E	. G-01		.*235-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	00008	.*EQ .		.
	213T	235	. 310545		. .		.
			.			L	. B
			. .		.		. 180 DYS
			. .		.		.
			. .		.		.
	L-OP CODE B REM: H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1E51*P051	RCIC LOOP LEVEL PUMP		.			*H,M	.*B
	GOULD PUMP	1E	. G-01		. 235-01		.*180 DYS
	WESTINGHOUSE		. RBS		8. EQ		.
	213T	235	. 310545		.		.
			.			L	.*B
			. .		.		.*180 DYS
			. .		.		.
			. .		.		.
	L-OP CODE B REM: H,M-OP CODE B 1 DAY, C REM. (MCC REV.)						
.1T46*FN838A	1T46*UC-021A FAN		.			ALL	. A
	BUFFALO FORGE	1E	. H-19		. .		. 180 DYS
	WESTINGHOUSE		. RBS	00150	.*DR .		.
	213T	276	. 310556		. .		.
.1T46*FN838B	1T46*UC-021B FAN		.			ALL	. A
	BUFFALO FORGE	1E	. H-19		. .		. 180 DYS
	WESTINGHOUSE		. RBS	00150	.*DR .		.
	213T	276	. 310556		. .		.
.1T46*FN839A	1T46*UC-022A FAN		.			ALL	. A
	BUFFALO FORGE	1E	. H-18		. .		. 180 DYS
	WESTINGHOUSE		. RBS	00161	.*DR .		.
	213T	276	. 310556		. .		.
.1T46*FN839B	1T46*UC-022B FAN		.			ALL	. A
	BUFFALO FORGE	1E	. H-19		. .		. 180 DYS
	WESTINGHOUSE		. RBS	00161	.*DR .		.
	213T	276	. 310556		. .		.

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.1G11*P270C	SUPP PL PP BK LEAKAGE RET POOL. BUFFALO FORGE CO. WESTINGHOUSE 286T 25HP	1E 457	G-01 RBS 00008. 348187	.*457-01 EQ	H,H	B 180 DYS
					L	A 180 DYS
	OP CODE B FOR HELB & HELB					
.1T46*FN835A	1T46*UC-004A FAN BUFFALO FORGE WESTINGHOUSE 326T	1E 276	H-20 RBS 00219.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN835B	1T46*UC-004B FAN BUFFALO FORGE WESTINGHOUSE 326T	1E 276	H-20 RBS 00219.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN836A	1T46*UC-005A FAN BUFFALO FORGE WESTINGHOUSE 326T	1E 276	H-20 RBS 00219.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN836B	1T46*UC-005B FAN BUFFALO FORGE WESTINGHOUSE 326T	1E 276	H-20 RBS 00219.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN833A	1T46*UC-002A FAN BUFFALO FORGE WESTINGHOUSE 364T	1E 276	G-01 RBS 00008.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN833B	1T46*UC-002B FAN BUFFALO FORGE WESTINGHOUSE 364T	1E 276	G-01 RBS 00008.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A
.1T46*FN834A	1T46*UC-003A FAN BUFFALO FORGE WESTINGHOUSE 364T	1E 276	G-01 RBS 00008.* 310556	.*276-02 EQ	ALL	A 180 DYS N/A

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.1T46*FN834B	1T46*UC-003B FAN		.		ALL	. A
	BUFFALO FORGE	1E	. G-01	.*276-02 .		. 180 DYS
	WESTINGHOUSE		. RBS	00008.*EQ .		.
	364T	276	. 310556	. .		. N/A
.1T46*FN003A	RBSVS EXH FAN		.		*H,M	.*A
	BUFFALO FORGE	1E	. K-15	.*270-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	112.*EQ .		.
	*405TCZ	270	. 310550	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*FN003B	RBSVS EXH FAN		.		*H,M	.*A
	BUFFALO FORGE	1E	. K-15	.*270-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	112.*EQ .		.
	405TCZ	270	. 310550	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*FN003C	RBSVS EXH FAN		.		*L	.*A
	BUFFALO FORGE	1E	. K-15	.*270-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	112.*EQ .		.
	405TCZ	270	. 310550	. .		.
.1T46*FN079A	RB EXHAUST BOOSTER FAN		.		*H,M	.*A
	BUFFALO FORGE	1E	. K-15	.*102-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	112.*EQ .		.
	7.5 HP 245T	102	. 310516	. .		.
			.		*L	.*A
			.	. .		.*180 DYS
			.	. .		.
			.	. .		.
.1T46*FN079B	RB EXHAUST BOOSTER FAN		.		*H,M	.*A
	BUFFALO FORGE	1E	. K-15	.*102-01 .		.*180 DYS
	WESTINGHOUSE		. RBS	112.*EQ .		.
	7.5 HP 245T	102	. 310516	. .		.

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**********	**********	**********	**********	**********	**********	**********
					*L	.*A .*180 DYS

TOTAL EQUIPMENT 1087

MISCELLANEOUS COMPONENTS AND ACCESSORIES

ENVIRONMENTAL QUALIFICATION STATUS REPORT

Equipment ID / Vendor ID	Equipment Description / Vendor Name / PO Number	QAC Spec	Zone / Bldg Elev	Make/Manufacturer / Model/Catalog No.	Eq Sheet / Qual Stat	Op Time	Acc/Peri	EMG Cnd Op CD
Report Group Spec = 159								
NA	Switchboard Wire			GE	159-03	180 Days	N/A	
	Various	1E	All	SI57279	EQ			All
	Various	159	RBP					B
NA	Switchboard Wire			Rockbestos	159-04	180 Days	N/A	
	Various	1E	All	A830__6	EQ			All
	Various	159	RBP					B
NA	Tape			Kerite	159-06	180 Days	N/A	
	Various	1E	All	S-5MT-NUC	EQ			All
	Various	159	RBS					B
NA	Tape			Okonite		180 Days	N/A	
	Various	1E	All	T35,T95	IJ			All
	Various	159	RBP					B
NA	Insulating Material			Raychem		180 Days	N/A	
	Various	1E	All	WCSP-N	IJ			All
	Various	159	RBP					B
NA	Lugs & Splices			Amp	159-02	180 Days	N/A	
	Various	1E	All	52900-53900	EQ			All
	Various	159	RBP					B
NA	Flex Conduit			Electro-Flex		180 Days	N/A	
	Electro-Flex	1E	All	CEA Sealtite	IJ			All
	Various	159	RBS					B
NA	Terminal Blocks			GE		180 Days	N/A	
	Various	1E	All	EB25A04W,-12W	IJ			All
	Various	159	RBS					B
NA	Terminal Blocks			GE		180 Days	N/A	
	Various	1E	All	EBI	IJ			All
	Various	159	RBS					B
NA	Terminal Blocks			GE		180 Days	N/A	
	Various	1E	All	CR151A8,-B2,-B4	IJ			All
	Various	159	RBS					B

Equipment ID / Vendor ID	Equipment Description / Vendor Name / PO Number	QAC Spec	Zone Bldg Elev	Make/Manufacturer Model/Catalog No.	Eq Sheet Qual Stat	Op Time	Acc/Perf	EMG Cnd Op CD
Report Group Spec = 159								
NA	Potting Compounds			Various		180 Days	N/A	
	Various	1E	All		IJ			All
	Various	159	RBS					B
NA	Selector Switch			GE		180 Days	N/A	
	Various	1E	All	CR2940	IJ			All
	Various	159	RBS					B
NA	Conduit Coupling	1E	All	Service-Air,	IJ	180 Days	N/A	All
	Various			Amer. Boa				B
		159	RBP	SS Fittings				

APPENDIX G

EQUIPMENT WITH INCOMPLETE QUALIFICATION DOCUMENTATION

This Appendix contains summary sheets for equipment exhibiting incomplete qualification documentation at the date of this submittal. These sheets are arranged in alphabetical order by equipment manufacturer, equipment model number, and specification number as shown on the index.

Each summary sheet includes a description of the qualification documentation, the resolution program, and the justification for interim operation. Resolution plans presented here are superseded by the Environmental Qualification Action Plan provided separately from this report. | 2

J.O.No. 11600.02

April 5, 1982
Revised-May 21, 1982

SHOREHAM NUCLEAR POWER STATION - UNIT 1
LONG ISLAND LIGHTING COMPANY

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Differential Pressure Transmitter	406	Rosemount	1152 Series, Code "A","D"	-	9/82	MR	4	Output Circuit Boards Type "A" or "D" to be Replaced with Qualified "E" Boards
Level Trans-mitter							4	
Flow Trans-mitter							5	
Pressure Trans-mitter							5	
Position Switches	111	NAMCO	EA-740 Series	-	9/82	RR	4	To be Replaced with Qualified NAMCO Position Switches
	172			-			8	
	318			-			23	
	232			-			7	
	003			3911			8	
	175			-			12	
	319		EA-750 Series	-			8	

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Motor-Operated Damper Actuators	319	Raymond	MASR-49 MASR-9	319-01 319-01	12/82 (Test) First Refueling (Replacement)	IJ	5 4	New Model to be Qualification Tested, Existing Model to be Replaced
Solenoid Operator	111	ASCO	HV200-926 -IF-EP	-	9/82	RR	4	To be Replaced with ASCO Model 206-832-6F
	172	ASCO	HV200-926 -IF-EP	-	9/82	RR	8	
Pressure Transmitter	003	Bailey	KG556 Series	3094	First Refuel	IJ	10	To be Replaced with Rosemount 1153 Series
Level Transmitter	003	Barton	368	3144	First Refuel	IJ	2	To be Replaced with Rosemount 1153 Series
Level Indicating Transmitter	003	Barton	760	3129	First Refuel	IJ	2	To be Replaced with Rosemount 1153 Series
Pressure Transmitter	003	Barton	760	3129	First Refuel	IJ	2	To be Replaced with Rosemount 1153 Series
Motor-Operated Valve Actuators	003	Limi-torque	SMB-3	003-01	9/82	RR	2	To be Replaced with Qualified Actuators Supplied Without Brakes

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Flow Trans-mitter	319	Air Monitor Corp.	Veltron 800	319-01	12/82	IJ	2	Vendor to Test
Pressure Switch	348	ASCO	SB11ANR/ TF10A32B	-	9/82	TA	9	Vendor Presently Testing
	348	ASCO	SB11ANR/ TG10A32B	-	9/82	TA	4	
Auto Transfer Switch	438	ASCO	307A66C	-	6/82	TA	2	Vendor Presently Testing
Hydrogen Recombiner Power Panel	289	Atomics Int.	N/A	-	9/82	TA	2	Vendor Presently Testing/Performing Analysis/Supplying Subcomponent Re-placements
Hydrogen Recombiner	289	Atomics Int.	N/A	-	9/82	TA	2	
Pressure Con-trol Valve Actuator	310	Beck	14-101-0236 45(ES)	310-01	2/83	IJ	2	To be Tested by Independent Testing Lab.
Temperature Con-trol Valve Actuator	310	Beck	14-101-0236 45(ES)	310-01	2/83	IJ	16	

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Gas Analyzer Sample Pump	344	Comsip	K-IV	344-01	6/82	EQ(Panel) TA (Pump)	2	Vendor Presently Testing
Differential Pressure Switch	319	Dwyer	1627	319-01	12/82	IJ	6	Vendor to Test
Charcoal Filter	105	Farr	N-240	-	9/82	IJ	2	Independent Engineers to Test/Provide Analysis/Recommend Subcomponent Replacements
Level Elements	473	Gems	XM-54854	-	10/82	IJ	3	Vendor Presently Testing
125 V DC Motor Control Centers	168	GE	7700	-	1984	IJ	4	Spare Motor Control Center Components to be Tested By Independent Test Lab.
4 kV Switch-gear Breaker	39	GE	M26	039-01	9/82	DR	4	Potential Modifications under evaluation
Electrical Penetrations Assemblies	456	Conax	Low Voltage Power	456-02	8/82	FT	2	Vendor to Submit Further Documentation

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Hand Selector Switches	319	GE	CR2940 Series	-	8/82	IJ	2	To be Tested by Independent Test Lab.
Motor Generator Control Panel	439	Gould	5600 Series	439-02	8/82	FT	4	Vendor to Provide Further Data/Analysis to Supplement Report Based on IEEE 323-1974 Test
Motor-Operated Damper Actuator	319	ITT	NH91	319-02	12/82	IJ	2	Manufacturer to Test in Generic Qualification Program
Radiation Detectors	475	Kamen	-	-	8/82	TA	4	Vendor Presently Testing
Level Switch	407	Magne-trol	291-MPG-X-M14DC	407-01	12/82	IJ	6	Manufacturer to Test in Generic Qualification Program

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
480 V AC Motor Control Center	115	Square D	Model 4	-	7/82 (Analysis) 1983 (Test)	IJ	22	Vendor to Analyze and Test
480 V AC Breaker Panel	115	Square D	Model 4	-		IJ	9	
480V AC Motor Starter	115	Square D	Model 4	-		IJ		
Solenoid Operators	003	Target Rock	1/2SMS-A-01	3904	9/82	RR	22	Extend Radiation Testing of Previous Test Specimen
Fan Motors	276	Westing-house	213T	-	6/82	DR	4	Vendor Test Report to be Submitted
			143T	-	6/82	DR	2	
Flexible Conduit	159	Electri-flex	CEA Sealtite	-	8/82	FT	-	To be Tested by Independent Test Lab
Terminal Blocks	159	GE	EB-25 CR-151 EB-1	-	8/82	FT	-	

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Stainless Steel Conduit		Servic-Air	Various	-	8/82	FT	-	To be Tested by Independent Test Lab
		American -Boa	Various	-	8/82	FT	-	
Splicing Tape	159	Okonite	T35,T95	159-01	8/82	FT	-	
Insulating Material	159	Raychem	WCSF-N HVT	-	8/82	FT	-	

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Solenoid Operated Valve	003	ASCO	HT-X-8320 A20	3096	First Refueling Outage	3096 IJ		Replace
1B21*SOV81							12	
1B21*SOV82							12	
Electrical Accessories for NSSS Panels	003	GE		3912	2/83	3912 DR/IJ		Join Commonwealth Edison LaSalle Test Program
1H21*PNL01 through PNL74							10 3 2 1 1 1 1 1 1 3	
Flow Element 1E32*FE037	003	Schutte & Koerting		3128	3/83	3128 DR/IJ	4	Join Commonwealth Edison LaSalle Test Program
Flow Transmitter 1E32*FT037	003	Ametek	078-5004	3128	3/83	3128 DR/IJ	4	Join Commonwealth Edison LaSalle Test Program

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Pump Motor 1E41*P074 1E41*P075	003	GE Terry Turbine	3HP 3500 RPM 120 VDC		1/83	TA/IJ	2	Test Underway by GE for HPCI Turbine and Accessories
Pump Motor 1E41*P127	003	GE	CD 259A7		1/83	TA/IJ	1	Test Underway by GE for HPCI Turbine and Accessories
HPCI Turbine 1E41*TU002	003	Terry Turbine	GS-1		1/83	3913 TA/IJ	1	Test Underway by GE for HPCI Turbine and Accessories
Position Indicating Switches 1E41*PNS840 1E41*PNS841	003	NAMCO	D1200		1/83	TA/IJ	2	Test Underway by GE for HPCI Turbine and Accessories
Level Switches 1E51*LS095H 1E41*LS095	003	Square D	9038-AG154		1/83	TA/IJ	2	Test Underway by GE for HPCI Turbine and Accessories
Pressure Switch 1E41*PS016	003	Square D	9012-ACW-22		1/83	TA/IJ	1	Test Underway by GE for HPCI Turbine and Accessories

SHOREHAM NUCLEAR POWER STATION

April 5, 1982
Revised-May 21, 1982

EQUIPMENT ENVIRONMENTAL QUALIFICATION ACTION PLAN

(BASED ON EQSR OF 5/17/82)

EQUIPMENT TYPE	SPEC. NO. SH1-	MAKE	MODEL	EQSS NO.	COMPLETION SCHEDULE	EQSR QUAL. STATUS DESIG-NATION	NO. OF ITEMS	ACTION PLANNED
Level, Flow and Pressure Transmitters (various)	003	Rosemount	1151	3048	6/82	3048 FT/IJ	28	Analysis to Refine Postulated Radiation Dose