

WISCONSIN PUBLIC SERVICE CORPORATION

ACD 1.7

ADMINISTRATIVE CONTROL DIRECTIVE

TITLE Environmental Qualification
of Electrical Equipment

DATE 12/19/83

PAGE 1 of 3

REVIEWED BY

Dave Berg

APPROVED BY

S/H/t

Information Only

1.0 PURPOSE

The purpose of this directive is to define responsibilities and requirements in the administration of environmental qualification of electrical equipment.

2.0 APPLICABILITY

This directive is applicable to all plant staff personnel involved in the design, purchase, installation and maintenance of environmentally qualified electrical equipment as defined and required by the "Environmental Qualification Plan" and 10 CFR 50.49.

3.0 DEFINITIONS

- 3.1 Environmental Qualification - documented evidence that electrical equipment is capable of performing its function when needed.
- 3.2 Electrical Equipment - is comprised of all equipment which requires electricity to perform its function. This includes equipment maintained by the Assistant Superintendent - Instrument and Control, and the Assistant Superintendent - Maintenance.
- 3.3 "Environmental Qualification Plan" - A written program that delineates the requirements for maintaining the environmental qualification of electrical equipment which is important to safety (as defined in 10CFR50.49) and which is installed in a harsh environment at KNPP.
- 3.4 An extensive list of definitions and references is contained in the "Environmental Qualification Plan".

4.0 RESPONSIBILITIES

- 4.1 The Maintenance Superintendent is responsible for performing preventive and corrective maintenance on environmentally qualified electrical equipment in accordance with the "Environmental Qualification Plan".

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PDR ADOCK 05000305
PDR

4.2 The Plant Technical Superintendent is responsible for detecting unexpected age related degradation of environmentally qualified electrical equipment by the methods described in the "Environmental Qualification Plan" and TSP 55-1.

4.3 The Quality Control Supervisor is responsible for reviewing spare parts requisitions and receipts in accordance with the "Environmental Qualification Plan". He is also responsible for reviewing maintenance activities and design change request installations for compliance with the "Environmental Qualification Plan".

4.4 The Quality Assurance and Technical Services Supervisor is responsible for auditing purchase orders, design work, and maintenance activities for conformance to the "Environmental Qualification Plan".

4.5 The Nuclear Design Change Supervisor is responsible for performing design changes in accordance with the "Environmental Qualification Plan".

4.6 The Power Plant Design Supervisor is responsible for performing design changes and capital improvements at KNPP in accordance with the "Environmental Qualification Plan".

4.7 The QA Typing Committee is responsible for resolving conflicting opinions on EQ Type in accordance with the "Environmental Qualification Plan".

4.8 The Nuclear Licensing and Systems Superintendent is responsible for maintaining the "Environmental Qualification Plan", environmental qualification documentation, and for NRC interface.

5.0 REQUIREMENTS

5.1 Environmentally Qualified electrical equipment in a harsh environment at KNPP will be designed, purchased, installed and maintained in accordance with the "Environmental Qualification Plan". The "Environmental Qualification Plan" is written in accordance with 10 CFR 50.49.

ADMINISTRATIVE CONTROL DIRECTIVE

	TITLE	Environmental Qualification of Electrical Equipment	
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5.2 Controlled copies of the "Environmental Qualification Plan" will be maintained by the Nuclear Licensing and Systems Superintendent and issued to the following individuals:

A. At KNPP

1. Manager - Kewaunee Plant
2. Maintenance Superintendent
3. Shift Supervisors
4. Assistant Superintendent - Instrument & Control
5. Assistant Superintendent - Maintenance
6. Maintenance Coordinator
7. Maintenance/Operations Supervisor
8. Quality Control Supervisor
9. Plant Technical Superintendent
10. Nuclear Design Change Coordinator

B. In Green Bay

1. Power Plant Design Supervisor
2. Nuclear Design Change Supervisor
3. Quality Assurance and Technical Services Supervisor
4. Nuclear Licensing and Systems Superintendent

KEWAUNEE NUCLEAR POWER PLANT

ENVIRONMENTAL QUALIFICATION PLAN

Information Only

Prepared by: John H. Thorgersen Date: 12/14/83
J. G. Thorgersen, Nuclear Engineer

Reviewed by: R. E. Draheim Date: 12/14/83
R. E. Draheim, Nuclear Design Change Supervisor

Reviewed by: Charles A. Schrock Date: 12/19/83
C. A. Schrock, Nuclear Licensing and Systems
Superintendent

Approved by: D. C. Hintz Date: 12/20/83
D. C. Hintz, Manager - Kewaunee Plant

Approved by: C. W. Giesler Date: 12/20/83
C. W. Giesler, Vice President - Nuclear Power

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Date: 02/06/84

Subject: EQ Plan Revision

KNPP

Gary Youngwirth - 1

Green Bay

Rod Draheim - 3

John Thorgersen - 1

Bill Capelle - 1

Jim Guay - 1

Eric Schmieman - 1

Jan Wiedenhaupt - 1

Mark Knaback - 1

Attached are the revisions to your EQ Plan. Although this is a non-controlled copy, you are responsible for keeping it updated when revisions are issued. Follow the instructions below when revising your plan.

Remove

- List of Effective Pages
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- Index Page 16, Rev. 0, 12/19/83
- Appendix E, Rev. 0, 12/19/83

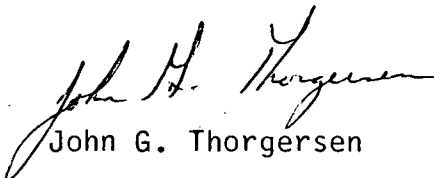
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- List of Effective Pages
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- Index Page 16, Rev. 1, 01/30/84
- Appendix E, Rev. 1, 01/30/84

R E C E I V E D

FEB 09 1984

ERIC SCHMIEMAN


John G. Thorgersen

Attach.

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ENVIRONMENTAL QUALIFICATION PLAN

I. PURPOSE

The purpose of the **Environmental Qualification Plan** is to assist Kewaunee and Corporate Staff in complying with 10 CFR 50.49. Since compliance with this rule requires the cooperation and coordination of many individuals at KNPP and in Green Bay, one plan describing everyone's responsibilities is necessary.

II. APPLICABILITY

Environmental Qualification requirements apply only to **electrical equipment which is important to safety** (as defined in 10 CFR 50.49) and which is located in a **harsh environment**. **Environmental Qualification** is NOT presently required for: electrical equipment which is not **important to safety**, or electrical equipment located in a **mild environment**, or mechanical equipment.

III. DEFINITIONS AND REFERENCES

Key words used in the **Environmental Qualification Plan** are defined below, listed in alphabetical order. Defined words appear in **boldface type** whenever they are used in the text of this plan.

A. DEFINITIONS

1. **DOR Guidelines:** NRC Division of Operating Reactors attachment to **I & E Bulletin 79-01B** giving guidelines for evaluating **environmental qualification** of Class 1E electrical equipment in operating reactors (as opposed to the Bulletin's requirements for reactors under construction). It was endorsed by 10 CFR 50.49 (k). Available from NLSG, it is primarily of historical interest.
2. **Electrical Equipment Important to Safety:** is defined in 10 CFR 50.49 as a class of electrical equipment which includes all of the following:

a. **Safety-related electrical equipment:**

This equipment is that relied upon to remain functional during and following design basis events to ensure (1) the integrity of the reactor coolant pressure boundary, (2) the capability to shut down the reactor and maintain it in a safe shutdown condition, and (3) the capability to prevent or mitigate the consequences of accidents that could result in potential off-site exposures comparable to the 10 CFR 100 guidelines. Design basis events are defined as conditions of normal operation, including anticipated operational occurrences, design basis accidents, external events, and natural phenomena for

- which the plant must be designed to ensure functions (1) through (3) of this paragraph.
- b. Nonsafety-related electrical equipment whose failure under postulated environmental conditions could prevent satisfactory accomplishment of safety functions specified in subparagraphs III.A.2.a.(1) through (3) by the safety-related equipment, and;
 - c. Certain post-accident monitoring equipment that is used by the operator to follow and mitigate the consequences of an accident.
3. **Environmental Qualification:** documented evidence that electrical equipment is capable of fulfilling its function when needed.
 4. **EQ:** acronym for **Environmental Qualification**.
 5. **EQ References:** the documentation (test reports or analyses) which is evidence that equipment at KNPP is environmentally qualified. The documents are sequentially numbered; cited by number on the SCEWS; and stored in the KNPP QC vault and in Green Bay. If you look at a SCEWS for a particular piece of equipment, the **EQ Reference(s)** which demonstrate its qualification are cited under the column "Documentation Ref."
 6. **EQ TYPE H1** electrical equipment: (1) is important to safety, and (2) is located in a **harsh** accident environment, and (3) has been successfully tested in accordance with IEEE-323-1974, and (4) has manufacturer's test reports on file in the KNPP QC Vault, and (5) is identified as **environmentally qualified** electrical equipment on a list maintained by WPSC.
 7. **EQ TYPE H2** electrical equipment meets all requirements of **EQ Type H1** except item (3), testing in accordance with IEEE-323-1974. **EQ Type H2** electrical equipment may use engineering analysis to supplement partial testing in accordance with the **DOR Guidelines**. The analyses may have been performed by the manufacturer or by a WPSC consultant or by WPSC. The analyses are also filed in the KNPP QC Vault. This equipment includes that tested in accordance with IEEE-323-1971 and supplemented by aging analysis.
 8. **EQ TYPE H3** electrical equipment: (1) is important to safety and (2) is located in a **harsh** accident environment and (3) has been shown by analysis on file in the KNPP QC Vault (a) to fulfill its **safety-related** function prior to being exposed to a **harsh** environment, and (b) to not be required to change position or state after being exposed to a **harsh** environment, and (c) that failure after exposure to the **harsh** environment will not change its **safety-related** position, and (d) that failure after exposure to the **harsh** environment will not mislead the operator, and (e) that failure after exposure to the **harsh** environment will not adversely affect other **safety-related** equipment. Although this

equipment is not within the scope of the final rule, and no EQ requirements apply, any plant modification which would affect the above five criteria would cause it to fall within the scope of the rule (EQ Type H1).

9. EQ TYPE M electrical equipment is **important to safety**, but is located in a **mild environment**. Although this equipment is not within the scope of the final rule, and no EQ requirements apply, any plant modification which would change its environment from **mild** to **harsh** would cause it to fall within the scope of the rule (EQ Type H1).
10. EQ TYPE N electrical equipment is not important to safety and no EQ requirements apply.

NOTE: There are a few pieces of equipment in the SCEWS which are temporarily listed as EQ Type U or O. These items are either in testing or scheduled for replacement during the Spring 1984 outage.

11. **Harsh Environment:** an environment that is expected to be more severe during or after an accident than the environment that would occur during normal plant operation, including anticipated operational occurrences. **Harsh environments** are noted for existing equipment on the SCEWS. For new equipment locations, **harsh environments** are noted on the sheets in Appendix C. The following values may be used as guidance: temperature > 120° F, pressure > 15.7 psia, humidity > 80% RH, containment spray = yes, radiation > 1E5 gamma, or submergence = yes.
12. **HELB:** acronym for High Energy Line Break, one of the two accident environments which must be considered for **environmental qualification**. Main Steam line cracks and breaks outside containment are analyzed in EQ Reference 171.
13. **I & E Bulletin 79-01B:** "Environmental Qualification of Class 1E Equipment," was issued by the NRC in January, 1980, and superseded by 10 CFR 50.49.
14. **LOCA:** acronym for Loss Of Coolant Accident, one of the two accident environments which must be considered for **environmental qualification**.
15. **Mild Environment:** an environment that would at no time be significantly more severe than the environment that would occur during normal plant operation, including anticipated operational occurrences.
16. **NLSG:** acronym for Nuclear Licensing and Systems Group.
17. **NUREG-0588:** "Interim Staff Position on Environmental Qualification of Safety-related Electrical Equipment," (For Comment version) is endorsed by 10 CFR 50.49 (k), and is of limited application to KNPP. It is available from NLSG.

18. **Radiation:** Total Integrated Dose (TID) is the sum of the 40 year normal dose and the accident dose, both of which are specified in EQ bibliography reference number 41 and Appendix C. For the HELB accident there is no associated accident dose: TID equals the 40 year normal dose. For equipment located outside the Containment Building, and/or required only for HELB, the exposure is gamma. For equipment located inside the Containment Building and required for LOCA, both gamma and beta exposure must be considered. The unshielded beta surface dose is 2E8 RAD. See EQ bibliography reference number 101 for a discussion of beta self-shielding. If self-shielding can be shown to reduce the beta dose by two orders of magnitude, the beta dose can be neglected.
19. **Replacement Equipment:** an entire component (solenoid valve, motor, etc.) used to replace existing qualified equipment of the same manufacturer and model (see Appendix A).
20. **Replacement Part:** Same as replacement equipment.
21. **Safety-related Electrical Equipment:** referred to as "Class 1E" equipment in IEEE 323-1974, and defined in paragraph III.A.2.a, above.
22. **SCEWS:** acronym for System Component Evaluation Work Sheet. Copies of these qualification documentation summaries were submitted to the NRC and are on file in the KNPP QA vault and the NLSG in Green Bay.
23. **Spare Part:** consumable material used in preventive and corrective maintenance activities, such as O-rings, gaskets, bearings, coils, etc. Note this is different from replacement part.
24. **10 CFR 50.49:** acronym for Title 10, Code of Federal Regulations, part 50.49.

B. REFERENCES

For a more thorough study of environmental qualification requirements, the following references are recommended:

1. General Documents

- a. Regulations
 - 10 CFR 50 Appendix A, "General Design Criteria for Nuclear Power Plants"
 - 10 CFR 50 Appendix B, "Quality Assurance Criteria for Nuclear Power Plants"
 - 10 CFR 50.49, "Environmental Qualification of Electrical Equipment Important to Safety for Nuclear Power Plants"
- b. USNRC Regulatory Guides
 - 1.89, Environmental Qualification of Electrical Equipment Important

to Safety for Nuclear Power Plants", Revision 1, November, 1983.
1.100, "Seismic Qualification of Electric Equipment for Nuclear Power Plants", Revision 1, August 1977.
NUREG-0800, 3.11, "Environmental Qualification of Mechanical and Electrical Equipment", Revision 2, July, 1981.

- c. Other NRC guidance
I & E Bulletin 79-01B, "Environmental Qualification of Class 1E Equipment", 1/14/80.
NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-related Electrical Equipment", December, 1979.
- d. Industry Standards
IEEE-323-1974, "IEEE Standard for Qualifying Class IE Equipment for Nuclear Power Generating Stations"
IEEE-344-1975, "IEEE Recommended Practices for Seismic Qualification of Class IE Equipment for Nuclear Power Generating Stations"
- e. EPRI Studies
NP-1558, "A Review of Equipment Aging Theory and Technology", September, 1981
NP-2129, "Radiation Effects on Organic Materials in Nuclear Power Plants", November, 1981

2. Specific Equipment Documents

a. WPSC/NRC Communication

- (1) SER Response from C W Giesler to S A Varga of the NRC, dated April 22, 1983, with two attachments.

b. Industry Standards and USNRC Regulatory Guides.

<u>IEEE</u>	<u>SUBJECT</u>	<u>REGULATORY GUIDES</u>
535-79	Batteries	-
650-79	Battery Chargers/Inverters	-
383-74	Cables	1.131 Rev.1 (Aug., 1979)
387-77	Diesel Generators	-
381-77	Instrumentation Modules	-
334-7, 117-74	Motors	1.40 (3/16/73)
649-80	Motor Control Centers	-
317-76	Penetrations	1.63, Rev. 2, (July, 1978)
420-73	Switch Boards	-
382-72	Valve Actuators	1.73 (January, 1974)

c. WPSC Procedures

- ACD 1.7, "Environmental Qualification of Electrical Equipment", December, 1983
ECD 4.1, "Design Change Control", Rev. 7, 2/22/83
ACD 5.4, "Work Request", Rev. 1, October 13, 1983
TSP 55-1 "Environmental Equipment Qualification Aging Review Program"

IV. QUALIFICATION MAINTENANCE PLAN

A. INTRODUCTION

The Company has committed significant resources to the **environmental qualification** of electrical equipment. To protect this investment, the qualification status of installed equipment must be maintained and the installation of new equipment must consider **environmental qualification**. To accomplish this requires the concerted effort of individuals in the following organizations:

- Design Change Engineering (Green Bay)
- Construction (Green Bay)
- Quality Assurance (Green Bay)
- Nuclear Licensing and Systems (Green Bay)
- Maintenance (KNPP)
- Technical Support (KNPP)
- Plant Operations Review Committee (KNPP)
- Quality Control (KNPP)
- Warehouse (KNPP)
- QA Typing Committee

The following sections describe **WHEN** and **HOW** each organization should act in regard to **environmental qualification**.

B. CONSTRUCTION AND DESIGN CHANGE ENGINEERING

1. WHEN EQ Requirements Must Be Considered

During the conceptual design phase of all modifications to KNPP, it must be determined whether or not EQ requirements apply to the work (ECD 4.1, paragraph 5.3.1 and form 4.1-2). This is accomplished in the first step described below. The remaining steps describe the additional work required if EQ requirements do apply.

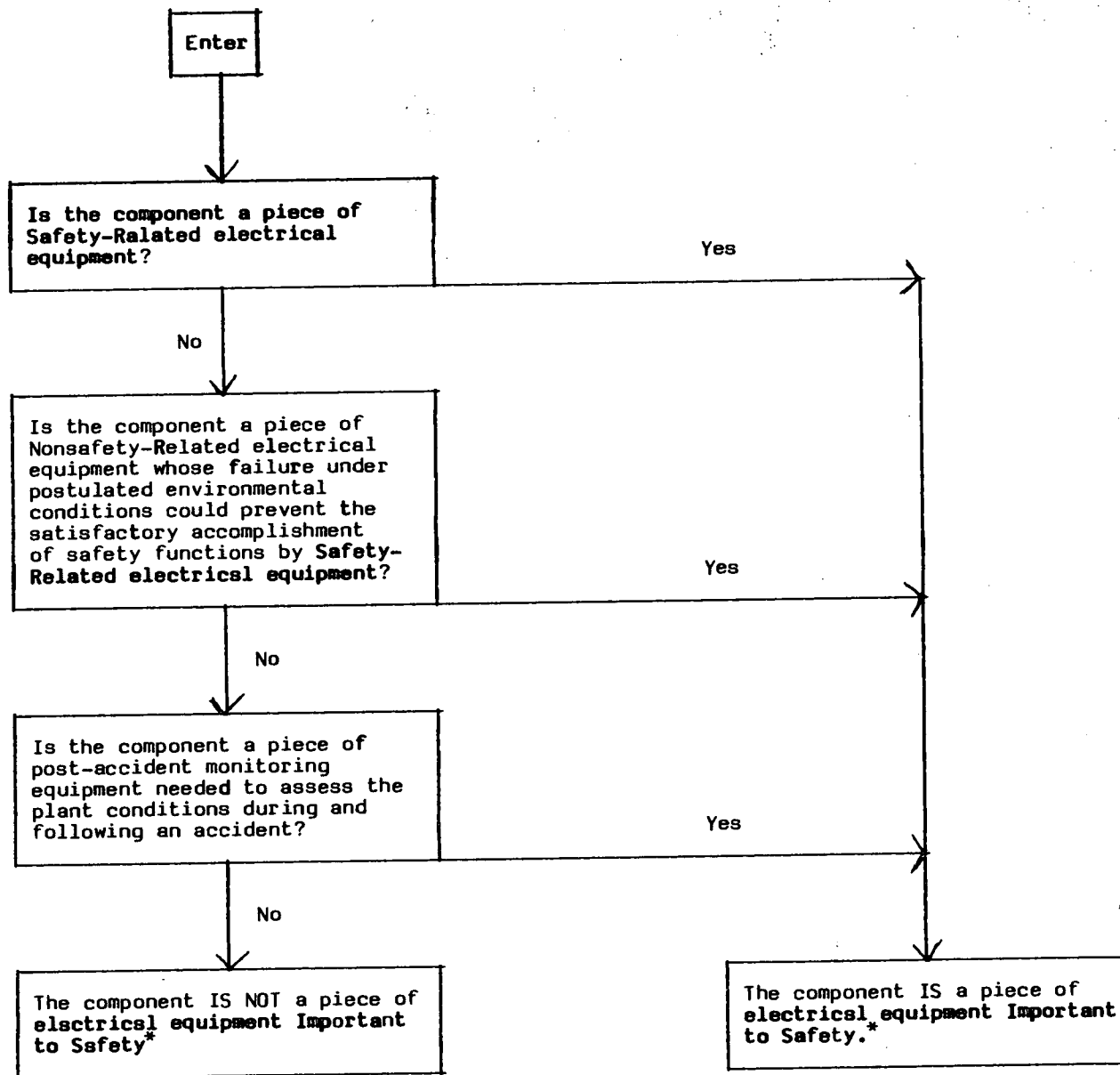
2. HOW

Step 1: Determine If EQ Requirements Apply

EQ requirements apply to electrical equipment which is **important to safety** (as defined by 10 CFR 50.49) and which is located in a **harsh environment**. First, determine if the equipment affected/installed by the DCR is **important to safety**. Figure EQ-1 on the following page provides a convenient means to do this. If the equipment is not **important to safety**, EQ requirements do not apply to this DCR (its EQ Type is N). If the equipment is **important to safety**, go to Appendix C and determine if the environment where the equipment is located will be **mild** or **harsh**. If the environment is **mild**, EQ requirements do not apply to this DCR (its EQ Type is M). If the environment is **harsh** and it was also found to be **important to safety**, EQ

FIGURE EQ-1

EQ Decision Tree - Electrical Equipment Important to Safety*



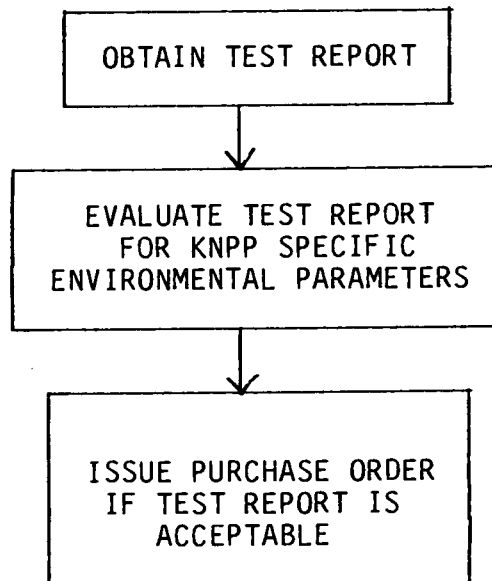
* "Important to Safety" as defined in 10 CFR 50.49 and paragraph III.A.2 of this Plan.

requirements do apply (its EQ Type is H1); complete all steps in this section.

Step 2: Equipment Purchasing

Review your conceptual design before committing money to purchasing **environmentally qualified** equipment. **Environmentally qualified** equipment is going to cost more to purchase, more to install, and more to maintain than non-EQ-equipment. Is it possible to locate the equipment in a **mild environment** and avoid EQ requirements? If **radiation** is the only harsh parameter, is shielding more cost effective than buying qualified equipment?

All new **environmentally qualified** electrical equipment procured for KNPP shall be EQ Type H1. All EQ Type H1 equipment must have been successfully tested in accordance with IEEE-323-1974 and the test parameters must envelop KNPP environmental parameters. Therefore, the recommended order for procurement actions is to first review the manufacturer's test report, then to issue a purchase order.



Step 2.a: Obtaining the Test Report.

10 CFR 50.49 requires that we have the actual test report and test data in our possession -- summary test reports or certificates of compliance are NOT acceptable. You should include a statement similar to the above sentence in your bid specification. Some vendors charge a fee for their test reports.

Some vendors will not bid until they know the KNPP environmental parameters --including Figure EQ-2 (Appendix C) in the specification is a convenient means of accomplishing this. Many vendors' test reports are already on file in the KNPP QC vault and in Green Bay NLSG as EQ references.

Step 2.b: Evaluating the Test Report

The testing program must have been conducted in accordance with IEEE-323-1974, so first familiarize yourself with this standard. The environmental test parameters must equal or exceed the KNPP harsh parameters you determined by using Appendix C during Step 1, above. Compare each harsh parameter you listed on Figure EQ-2 to the test values in the test report. Note that temperature, pressure, humidity, and chemical spray are time dependent variables. The sequence of testing (first aging, then radiation, then seismic, then LOCA/HELB) must agree with IEEE-323-1974, the same piece of equipment must be utilized during the entire sequence, and the equipment must be energized and operating during all test conditions. If the model you are purchasing is not identical to the model tested, the test report must contain an analysis which demonstrates that sufficient similarity exists to justify applying the test results to your purchase. The test report may not explicitly state two environmental parameters you have on Figure EQ-2: aging and operating time. The test report may contain an Arrhenius curve to describe these two parameters. In this case, you will have to perform calculations similar to those in Appendix F in order to evaluate these parameters. Finally, verify the equipment continued to work throughout the test program--some test reports demonstrate that the equipment will definitely fail in the event of an accident.

Step 2.c: Purchase Order

If you have obtained and evaluated the test report prior to writing the purchase order requisition, then Form EQ-1 (Appendix A) is a convenient means of documenting EQ requirements on the requisition. If you have not obtained and reviewed the test report, the

requisition must clearly state the requirements for environmental testing in accordance with IEEE-323-1974 and must list the KNPP specific environmental parameters. In either case, write the following statement on the requisition: "For WPSC use only - EQ Type H1."

Step 3: Installation

Equipment is usually tested using a very specific installation and special interfaces. We must duplicate the test installation and test interfaces at KNPP for the test results to be applicable at KNPP. This is probably best explained by a couple of examples.

a. Installation Mounting Orientation

Environmentally qualified Foxboro pressure transmitters are installed at KNPP. The manufacturer's technical manual states that the transmitter must be installed with its conduit connection facing downward and that the user-supplied conduit must have a $\frac{1}{4}$ inch weep hole drilled at its lowest point. The test report explains this installation orientation is required to assure a path for condensate drainage. Without this drain path, condensation (which would be expected during a LOCA or HELB) would collect in the transmitter junction box and cause a transmitter failure by short circuit. Seismic testing may also frequently require a specific mounting orientation.

b. Interfaces

When NAMCO limit switches were tested in a LOCA chamber, $\frac{3}{4}$ inch pipe was used to bring the limit switch cable from outside the test chamber to the switch. The pipe assured that the LOCA steam and chemical spray environments would not enter the switch. The test report states that the user is responsible for providing a similar seal. We have used Conax Electrical Conductor Seal Assemblies (ECSA's) for this purpose. The Conax ECSA requires special pipe thread sealant, special thermal wire strippers, special terminal lugs and crimping tool, and an **environmentally qualified splice**, significantly complicating the installation of the limit switch.

All **Environmentally Qualified** electrical equipment installed at KNPP has been identified with a tag. The tags are constructed of stainless steel and are affixed to the equipment with stainless steel lockwire. Engraving is

performed by PS&E printing department in Green Bay (a work request is not required). ID tags should be attached to all new or **replacement equipment**, too, to assist maintenance personnel. The tags are engraved with plant ID number, operations number, a word description (limit switch, or motor, etc.), and "EQ-H."

Step 4: Maintenance Considerations

Environmentally qualified electrical equipment sometimes requires preventive maintenance practices different than those usually encountered with non-qualified equipment. The preventive maintenance practices required to maintain the **environmental qualification** of electrical equipment may be found in the test report or technical manual or both (review critically the test report section on aging). Since the RE/RS will usually be the only individual to thoroughly review both documents, the RE/RS should summarize this information on Form EQ-3. Some maintenance requirements stipulated by the manufacturer may not be compatible with KNPP operating practices. The RE/RS should obtain written authorization from the manufacturer in such cases. Work closely with KNPP maintenance and document any deviations from manufacturer's maintenance recommendations in the "disposition" blank of Form EQ-3.

Step 5: Documentation

Equipment is not environmentally qualified unless we have in an auditable file the proper documentation. Maintaining that auditable file is the responsibility of the Nuclear Licensing and Systems Superintendent. For each environmentally qualified component that you install under a DCR, you should transmit to him the following documentation:

- a. two copies of the test report,
- b. one copy of Figure EQ-2,
- c. one copy of the purchase order, and
- d. one copy of Form EQ-3.

C. QUALITY ASSURANCE AND QUALITY CONTROL

1. WHEN

This EQ Plan will be used by QA and QC when auditing and reviewing the work of the organizations listed in paragraph IV.A and when reviewing purchase orders.

FORM EQ-3

To: Assistant Supt. - I&C
Assistant Supt. - Maintenance

System: _____

Design Change Number: _____

The preventive maintenance actions listed below must be performed at the indicated frequencies to maintain the environmental qualification of electrical equipment installed by this DCR. If these requirements are practical, record the procedure number in the "disposition" blank. If they are not practical, state why in the "disposition" blank. Return the form to me.

_____ No. pages attached: _____

Responsible Engineer/Supervisor/Date

Plant ID No. _____

Maintenance Description: _____

Spare Parts Required: _____

Frequency: _____

Reference: _____

Disposition: _____

Plant ID No. _____

Maintenance Description: _____

Spare Parts Required: _____

Frequency: _____

Reference: _____

Disposition: _____

2. HOW

The inspector may review each organization's work against the applicable section of the plan in paragraph IV and the supporting appendices. To review purchase orders, the inspector will have to be familiar with Appendix A. The information in paragraph IV.B.2 will be helpful in performing audits and reviewing purchase orders. Companies offering EQ testing services shall be subjected to the same requirements as other QA Level 1 suppliers on the QSL.

D. MAINTENANCE AND I & C

1. WHEN EQ Applies

Environmental Qualification Requirements apply only to EQ Type H1 and EQ Type H2 equipment. To determine the EQ Type of particular equipment, look up the equipment in Appendix E. If the equipment is not listed in Appendix F, then its EQ Type is "N."

2. HOW To Work On EQ Equipment

a. Parts

Any spare parts used in preventive or corrective maintenance must be the original manufacturer's spare parts as listed in the technical manual or foreign drawings. Follow the instructions in Appendix A for ordering spare parts. This may limit the level of maintenance performed. For instance, if a 100 ohm resistor fails in an EQ device manufactured by ABC Corporation, but the lowest level spare part sold by ABC is the circuit board, replace the entire circuit board rather than the resistor even though we have 100 ohm resistors in stock. No substitution is acceptable unless it is being performed under a PORC reviewed temporary design change (see paragraph IV.G).

b. Pressure Boundaries

Electrical equipment which is environmentally qualified frequently has pressure boundaries to seal out humidity and dirt. Review the manufacturer's technical manual for specific maintenance requirements such as: cleanliness, torquing, and limits on the number of times a gasket or seal can be compressed. If new O-rings or gaskets are required, make sure they are in stock before starting the job.

c. Orientation

EQ equipment frequently must be installed in a specific orientation (up, down, horizontal) because of seismic reasons or to assure condensate drainage. Be sure not to change the device's orientation when performing maintenance.

d. Failures

Whenever an EQ device fails, be as detailed as possible in describing the cause of failure on the MWR. We are particularly interested in age related failures.

E. WAREHOUSE

1. WHEN EQ Applies

Environmental Qualification affects the ordering of spare parts and replacement equipment only when the existing equipment is EQ Type H1 or H2.

2. HOW To Order EQ Parts

First determine the EQ Type of the base component by using Appendix E. This information will be available from PPFIS/MMS when it becomes operational. Follow the purchasing procedures described in Appendix A.

F. TECHNICAL SUPPORT

1. WHEN TO Consider EQ

The primary EQ function of Technical Support is to provide operational feedback to those responsible for maintaining and specifying qualified equipment. This is accomplished by review of Maintenance work Requests and NRC Information Notices. NPRDS will also be useful when it becomes functional.

2. HOW

Technical Support's EQ activities are directed by ACD 5.4 and TSP 55-1. Technical Support engineers will also find paragraph IV.B.2. and Appendices E & F helpful.

G. PLANT OPERATIONS REVIEW COMMITTEE

1. WHEN To Consider the EQ Issue

PORC will need to consider the environmental qualification of electrical equipment when reviewing maintenance procedures (Tech. Spec. 6.5.1.6.a) and design changes (Tech. Spec. 6.5.1.6.d).

2. HOW

When reviewing design changes, PORC will find paragraph IV.B and its supporting appendices helpful. When reviewing maintenance procedures, PORC will find paragraph IV.D and its supporting appendices helpful.

3. Of Special Interest to PORC

There are two special EQ issues which may be periodically brought before PORC for resolution: repair of **environmentally qualified** electrical equipment when qualified **spare parts** are not immediately available, and equipment upgrading.

a. EQ Repairs and No Qualified Spare Parts

Should an **environmentally qualified** electrical component require repair, it must be repaired using **spare parts** which are similarly qualified. If no qualified spare parts are immediately available from the original equipment manufacturer, it may be possible to qualify commercial grade spare parts by engineering analysis. The parts qualified by analysis could be installed under a temporary change request (TCR) until they could be replaced by qualified spare parts during the next outage of sufficient duration. Useful references in preparing the engineering analysis are EPRI NP-1558, "A review of Equipment Aging Theory and Technology," (available in the TSC and the NLSG) and EPRI NP-2129, "Radiation Effects on Organic Materials in Nuclear Power Plants," (available in the TSC, the NLSG, and the KNPP QC vault as EQ Reference 119). See also paragraph IV.G.3.b(3), following.

b. Upgrading

When **replacement equipment** is no longer available to maintain EQ Type H2 and H3 equipment, 10 CFR 50.49 (1) requires that the equipment be upgraded to EQ Type H1 unless there exist sound reasons to the contrary. "Sound reasons to the contrary" which are acceptable to the NRC have been published in NRC Generic Letter 82-09 and are quoted verbatim below. "NUREG-0588 Category I" in the quotation below may be read as "EQ Type H1." "NUREG-0588 Category II" in the following quotation below may be read as "EQ Type H2."

"In CLI-80-21, the Commission stated that unless there were sound reasons to the contrary, **replacement equipment** should be qualified to the standards set forth in Category I of NUREG-0588. The Commission's position was designed to promote the policy of upgrading the **environmental qualification** and reliability of installed **safety-related electrical equipment**. To meet this overall goal, licensees must institute internal policy practices consistent with the Commission's statement.

Situations may arise in which upgrading to NUREG-0588, Category I of replacement equipment qualified to NUREG-0588, Category II or the DOR Guidelines will not be compatible with overall station safety and performance goals. Licensees must review such situation on a case-by-case basis and determine that 'sound reasons to the contrary do, in fact, exist which warrant the use of **replacement equipment** (not necessarily in-kind) qualified to

the DOR Guidelines or NUREG-0588, Category II. For equipment located in a harsh environment, licensees' procedures must provide for documentation and substantiation of such determinations.

Conditions which reflect sound reasons why qualification standards for replacement of equipment in a harsh environment need not be upgraded to NUREG-0588, Category I include the following:

- (1) The licensee has replacement equipment in stock that meets the DOR Guidelines or NUREG-0588, Category II, and procurement actions regarding such replacement equipment had commenced prior to May 23, 1980.
- (2) Replacement equipment qualified to the NUREG-0588, Category I standards does not exist.
- (3) Replacement equipment qualified to the NUREG-0588, Category I standards is not available to meet installation and operation schedules. Equipment qualified to the DOR Guidelines or NUREG-0588, Category II may be used for an interim period until Category I equipment is obtained and an outage of sufficient duration is available for replacement. Justification for use of the non-Category I qualified replacement equipment beyond this interim period must be submitted to the NRC for approval prior to the end of the interim period and in sufficient time for reasonable NRC review.
- (4) Replacement equipment qualified to NUREG-0588, Category I standards would require significant plant modifications to accommodate its use.
- (5) Operating performance and reliability data for the Category I equipment indicates poor overall equipment performance. For example, mean time to failure is significantly shorter for the Category I replacement equipment.
- (6) The use of replacement equipment qualified to NUREG-0588, Category I standards has a significant probability of creating human factor problems that will negatively affect plant safety and performance, e.g., (a) knowledge, skills and ability of existing plant staff require significant upgrading to operate or maintain the specific Category I replacement equipment; (b) the use of equipment qualified to Category I standards creates a one-of-a-kind application; or (c) maintenance, surveillance or calibration activities are unnecessarily complex."

H. NUCLEAR LICENSING AND SYSTEMS

1. WHEN To Consider The EQ Issue

The NLSG is responsible for maintaining the documentation of environmental qualification and for responding to NRC requests

related to this issue. The documents to be maintained by NLSG are the (a) SCEWS, (b) EQ test reports and analyses, and (c) this Environmental Qualification Plan.

2. HOW

a. SCEWS

There are three sets of SCEWS maintained by the NLSG: one in the TSC, one in the QC vault, and one in the NLSG Green Bay offices. Computer Services is converting this data base to become accessible through PPFIS/MMS. Once accessible through PPFIS/MMS, the three paper copies of SCEWS will be deleted.

b. Test Reports and Analyses

There are two files of EQ test reports and analysis maintained by the NLSG: one in the QC vault and one in the NLSG Green Bay offices.

c. Environmental Qualification Plan

NLSG will maintain copies of the Environmental Qualification Plan. The Plan will be distributed in accordance with ACD 1.7.

I. QA TYPING COMMITTEE

1. WHEN

The QA Typing Committee may be asked to resolve conflicting opinions on the EQ Type assigned to individual components. Requests for resolution may be brought by DCR engineers or KNPP operations and maintenance staff.

HOW

The QA Typing Committee may find helpful paragraphs III.A.6-10 and IV.G.3.b; 10CFR50.49; and IEEE-323-1974.

APPENDIX APROCUREMENT REQUIREMENTS FOR EXISTING EQUIPMENTINTRODUCTION

This appendix provides procurement requirements for any one who may need to purchase **environmentally qualified** electrical equipment. New equipment is equipment being installed at KNPP for the first time, in response to a DCR. New equipment includes model number changes, such as replacing a NAMCO model D-2400x limit switch with a NAMCO model EA-180. Procurement of new equipment is discussed under paragraph IV.B. Existing equipment procurement includes purchasing **replacement equipment** and **spare parts**. Only existing equipment procurement is discussed in this appendix.

You may be required to purchase **spare parts** (gaskets, circuit boards, other consumable maintenance items) or **replacement equipment** (solenoid valve, spare transmitter, etc.) for existing equipment that is already **environmentally qualified**. Procurement requirements depend upon **EQ Type**. **EQ Type** of existing equipment may be obtained from the SCEWS (KNPP QC vault or Green Bay central file) or Appendix E. **EQ Type** will be available from PPFIS/MMS when it becomes operational.

EQ TYPE H1

Spare parts and **replacement equipment** of this **EQ Type** are required to have been successfully tested in accordance with IEEE-323-1974. This requirement must be documented in the purchase order. An acceptable means of meeting this requirement is to complete and attach Form EQ-1 to the purchase order requisition. The test report title, revision, and date can be found from the SCEWS. Test report information will be available from PPFIS/MMS when it becomes operational. Write on the requisition "For WPSC use only - EQ Type H1." Follow normal purchasing practice in all other respects.

EQ TYPE H2

This equipment was originally environmentally qualified by:

1. vendor test and vendor analysis, or;
2. vendor test, and an engineering analysis performed by WPSC (or WPSC consultants), or;
3. engineering analysis performed by WPSC (or WPSC consultants).

Spare parts and **replacement equipment** of this type are required to be qualified in the same way as the original equipment. This requirement must be documented on the purchase order. An acceptable means of meeting this requirement is described below:

STEP 1: Determine who did the test and/or analysis. Look on the SCEWS

column "Documentation Ref. Qualif." to find out which EQ References apply. Look up the reference numbers in Appendix B of this plan to find out who wrote each reference cited.

STEP 2: Complete and attach the correct forms to the requisition. If all of the references cited on the SCEWS were authored by the vendor, complete and attach only Form EQ-1 to the requisition. If all of the references cited on the SCEWS were authored by WPSC (or WPSC consultants), attach only Form EQ-2 to the requisition. If the references cited on the SCEWS include both vendor authored reports and WPSC (or WPSC consultants) reports, then complete and attach both forms EQ-1 and EQ-2 to the requisition.

Write on the requisition "For WPSC use only - EQ Type H2."

EQ TYPES H3, M, and N

Write on the requisition "For WPSC use only - EQ Type H3" (or M, or N, as applicable).

Follow normal purchasing practices in all respects.

FORM EQ-1PURCHASE OF ENVIRONMENTALLY QUALIFIED ELECTRICAL EQUIPMENT

10 CFR 50.49 requires that the electrical equipment on this purchase order be environmentally tested in accordance with IEEE-323-1974. Two copies of the following signed statement, under the vendor's letter head, shall be furnished to D. C. Hintz at Wisconsin Public Service Corporation, Kewaunee Nuclear Power Plant, Route #1, Kewaunee, Wisconsin 54261, prior to, or included with the shipment.

Certification of conformance that all material furnished under this purchase order is the same as that in the qualification test report titled,
"

Revision _____, dated _____.
This report is already on file with Wisconsin
Public Service Company (EQ Reference No. _____.)

FORM EQ-2EXISTING EQUIPMENT EQ TYPE H2

This electrical equipment is being purchased for use in an application which requires environmental qualification. Our environmental qualification of your equipment is based in part upon an engineering analysis performed by us or our consultants. We require a list of all non-metallic materials used in manufacturing the equipment you are supplying under this purchase order to verify our engineering analysis remains valid.

The list of non-metallic material must reference this purchase order number and should be sent to D. C. Hintz, Kewaunee Nuclear Power Plant, Route #1, Kewaunee, Wisconsin 54216, prior to, or included with the shipment.

INVOICES WILL NOT BE PAID UNTIL THIS INFORMATION IS RECEIVED. Thank you in advance for your cooperation.

For WPSC use only: Place material on QC HOLD until engineering analysis is completed.

EIELICGRAPHY

APPENDIX B

- 1) Letter to E. B. Mathews of WPSC from S. A. Varga of the WRC, dated 6/18/81, enclosure 1 (SER).
- 2) FSAR Section 7.5.
- 3) FSAF Section 14.3.4.
- 4) FSAF Questions and Answers Supplement, Question 6.13.1.
- 5) Letter to M. E. Stern of WPSC from C. E. Agan of Fluor Power Services, dated 2/3/78, along with attached test reports.
- 6) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Services, dated 3/13/81, and attached tables.
- 7) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Services, dated 7/17/81.
- 8) Letter to E. B. Mathews of WPSC from J. G. Keppler of the NEC, dated 1/16/80, enclosure 4 (IE Bulletin No.79-01B-DCF Guidelines).
- 9) Letter to B. A. Furple of the NEC from E. W. James of WPSC, dated 2/20/76.
- 10) Pioneer Service and Engineering Company, Vendor Certification and Testing.
- 11) The Cronite Company, Prototype Test, November 12, 1970, and Supplement (IEEE PAS-88), dated November 23, 1970.
- 12) EIW Isostrad Cables Report No. B901.
- 13) EIW Report No. B904, July 15, 1970.
- 14) Final Report F-C2737, The Franklin Institute Research Laboratories Misc. Certification.
- 15) WCAP 7410, Vol. II Westinghouse, Section 6.
- 16) Qualification Test - Joy Axivance/Reliance Electric Motor Company, April 29, 1969 - PO K-161, Section 6.
- 17) Chevron Oil Company letter, 3/14/73.
- 18) Limitorque Corporation letter, 2/6/74.
- 19) WCAP 7410-L, Final Report F-C2232-01.
- 20) WCAP 7410-L, Section 1: Post Accident Environmental Conditions
- 21) G. E., H. C. Lauroesch correspondence to J. King, Power Systems, August 7, 1978.
- 22) G. E., "Insulating Materials Product Data, 74010A Epoxy Resin plus 74010 Epoxy Catalyst," March 24, 1964, and

REV. 0
12/19/83

FORM EQ-2EXISTING EQUIPMENT EQ TYPE H2

This electrical equipment is being purchased for use in an application which requires **environmental qualification**. Our **environmental qualification** of your equipment is based in part upon an engineering analysis performed by us or our consultants. We require a list of all non-metallic materials used in manufacturing the equipment you are supplying under this purchase order to verify our engineering analysis remains valid.

The list of non-metallic material must reference this purchase order number and should be sent to D. C. Hintz, Kewaunee Nuclear Power Plant, Route #1, Kewaunee, Wisconsin 54216, prior to, or included with the shipment.

INVOICES WILL NOT BE PAID UNTIL THIS INFORMATION IS RECEIVED. Thank you in advance for your cooperation.

For WPSC use only: Place material on QC HOLD until engineering analysis is completed.

effect of radiation on materials.

- 23) Letter from G. E. to A. Smith of NSF, dated 11/21/78, plus attachment.
- 24) L. G. O'Brien Report #C19QA053 W/EA letter dated 2/4/72.
- 25) EC K268 Book 5 KP-S-4641 letter dated 6/20/78.
- 26) PG K268 Book 5 EF 192 dated 2/21/72.
- 27) D. G. O'Brien Report #C19QA059 W/EA letter dated 3/2/72.
- 28) ES&E Engineering Acceptance CRDP Prototype S/N PR-7.
- 29) D. G. O'Brien Report #C19QA057.
- 30) PG K268 Book 5 letter dated 4/20/72.
- 31) D. G. O'Brien Report #C19QA049, W/Engr. Acceptance - NIS Prototype Letter dated 4/4/72 from PS&E.
- 32) NIS Prototype Letter, dated 4/4/72, from PS&E.
- 33) D. G. O'Brien Report #C19QA062 W/EA, letter dated 5/17/72.
- 34) D. G. O'Brien Report #C19QA054 W/EA, letter dated 1/28/72.
- 35) Based on maximum required operating time of associated components.
- 36) Based on maximum post-accident temperature in the auxiliary building.
- 37) System Description No. 17 - Auxiliary Bldg. Ventilation (ACA).
- 38) System Description No. 14 - Auxiliary Bldg. Special Ventilation (ASV).
- 39) Letter to C. A. Schrock of WPSC from C. E. Agan of FES, dated 3/16/81.
- 40) System Description No. 25 - Control Room Air Conditioning (ACC).
- 41) "Design Review of Post-Accident Plant Shielding and Equipment Radiation Qualification" prepared by FES under Project No. 23-7127-053, dated 2/13/81, updated by a letter to R. H. Weinbauer of WPSC from C. E. Agan of FES, dated 3/30/81.
- 42) FBI Report #F-C3271, February, 1972.
- 43) FSAB Section 2.
- 44) System Description No. 16 - Turbine Bldg. and Screen House Ventilation (TAV).
- 45) Based on maximum required operating time of other systems.
- 46) Based on maximum required operating time.
- 47) Conservative estimate for maximum time to receipt of containment isolation.

- 48) Westinghouse Shop Order 220, Specification 676258.
- 49) Letter dated May, 1973, from Limitorque to Fioneer Service Engineering Corporation.
- 50) Acre Cleveland Development Company Test Plan, dated Aug. 31, 1977, and Qualification of Namco EA-180, dated March 3, 1978.
- 51) WCAP 7744, Vol. 1, Sect. 5: Valve Motor Operators.
- 52) WCAP 7410-L, Vol. 1, Sect. 5: Valve Motor Operators & APP. D
- 53) FSAB Appendix H, Section 3.
- 54) FSAR Figures H.3-4, H.3-5.
- 55) Conservative estimate for maximum time to receipt of auto closure signal.
- 56) Not used.
- 57) Letter of May, 1978, Automatic Switch Company and Test Report #AQS21678/TR Rev. A.
- 58) WESC PC 158.
- 59) Fluor Power Services letter, FPS-5859, Dec. 31, 1980.
- 60) Pratt Company letter, 8/20/79, and letter to E. S. Prierley, WESC, from J. A. Damato, Automatic Switch Company, dated 1/22/82.
- 61) Conservative estimate for required availability of containment spray.
- 62) EC K-158, Ingersoll Rand.
- 63) Joy Manufacturing Report X-411.
- 64) Limitorque Qualification Type Test Report, 12/9/75.
- 65) Conservative estimate for maximum alignment to final valve alignment.
- 66) Conservative estimate for maximum time for ECCS switchover to recirc.
- 67) Conservative estimate for required availability of SI system.
- 68) Johnson Service Co. letter to Mr. Bill Mcrini of WESC, 8/30/73.
- 69) WCAP 8541, Seismic & Environmental Testing of Foxboro Transmitters, July, 1975.
- 70) FSAB Table 6.2-13.
- 71) WCAP 7410-L, Topical Report of Environmental Testing of Engineering Safety Features Related Equipment.
- 72) Square D Company, Environmental Qualification Report No. 108-1.02-LIA.
- 73) Based on reasonable time for operator action to trip feedwater pump.

- 74) EIW Report 903A.
- 75) EQF-6, GE Terminal Boards Qualification Report, dated 12/24/80.
- 76) WCAP 9157, Environmental Qualification of Safety Related Class 1E Process Instrumentation Topical Report.
- 77) WCAP 7744, Environmental Testing Topical Report.
- 78) EC K-272 specifications.
- 79) Acton Environmental Testing Corporation Test Report No. 9306 and Supplements.
- 80) Letter dated 7/24/72 from Magnetrol.
- 81) Qualification Test Report on SNUPPS Solenoid Valves, Valcor document number. QR 52600-5940-2, Rev. C, 4/17/81.
- 82) EC K-05555.
- 83) ITI Earton Product Catalog, Section 6.
- 84) EQF-18, Rotron Electrical Motors Qualification Report, dated 12/24/80.
- 85) Based on maximum required operating time of components cooled by fan coil units.
- 86) FSAB Table 14.3-13 (Venting Requirements and Venting Doses Without Pressure Increase).
- 87) Conservative estimate for the required indication period for the accident duration.
- 88) Acme-Cleveland test report of Namco Limit Switch, Model EA-170, dated March 17, 1978.
- 89) Earton Test Report B3-288A-1, October, 1979.
- 90) Earton Test Report BI-289A-8, Rev. 2, 9/13/81.
- 91) Class 1E Cables for Nuclear Generating Stations IEE Trans. on Power Apparatus and Systems PAS-03 (61), August, 1974.
- 92) EDS Qualification of Electric Cable Calculation File No. 0910-2 05-Ckonite-01.
- 93) FIBL Report #F-C3125, September, 1971.
- 94) EDS Calculation File No. 0910-205-EIW-01.
- 95) EDS Calculation File No. 0910-205-Kerite.
- 96) FIBL Report #F-C2737, April 15, 1970.
- 97) Kerite Company Report KPI-IVC-1 of April 13, 1977 (confidential and proprietary to the Kerite Company).
- 98) Okonite Company Test Procedure sent to Mr. Albrecht, NSP, on April 20, 1978.
- 99) Ckonite Company letter to NSP (A. Smith) 8/31/78.

- 100) Limitorque Nuclear Qualification Report BC058 and Supplement.
- 101) Letter to C. A. Schrock of WPSC from E. F. Wheeler of FPS, dated 10/12/81.
- 102) Limitorque Nuclear Qualification Report EC003.
- 103) Fcxboro Product Engineering Report #81-105.
- 104) Letter to C. A. Schrock of WPSC from L. J. Charmoli of Fluor Power Services, dated 10/29/81.
- 105) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Services (KPS-6554), dated October 30, 1981.
- 106) Letter to L. W. Price of WPSC from E. Kidd of Limitorque Corporation, dated November 13, 1981.
- 107) Letter to P. T. Trndson of WPSC from D. E. Cole of EDS, dated November 16, 1981, and Engineering Evaluation.
- 108) Required to supply service water to the containment fan coil units. These are required to operate for one year per reference #70.
- 109) Required for isolation. All air operated Isolation Valves are required to close within 10 seconds after signal. 30 minutes is a conservative specification.
- 110) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Service (KPS-6570), dated December 3, 1981.
- 111) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Service (KPS-6579), dated December 11, 1981, plus HELB maps.
- 112) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Service (KPS-6581), dated December 11, 1981.
- 113) Containment Humidity Levels, based on one (1) year operating experience.
- 114) System Description No. 18 - Reactor Building Ventilation System.
- 115) Maximum Radiation Level for 40 year normal, plus LOCA event was used for conservatism.
- 116) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Service (KPS-6585), dated December 21, 1981.
- 117) Harsh Environment HELB Calculation for BA Tank Transmitters by E. Schrieman, dated January 8, 1982.
- 118) Chemical Spray--Sodium Hydroxide Calculations.
- 119) Radiation Effects on Organic Materials in Nuclear Plants--EPRI NP-2129, November, 1981.
- 120) Evaluation of Sostman RTD's, EDS No. 0940-006-451.
- 121) PH Calculation for Sostman's RTD's.
- 122) PH Calculation for Chevron, Ckcnite, and Beliance.
- 123) Magnetrol Level Switches Chemical Spray Study.
- 124) EQ-02 Thermal Aging and Radiation Evaluation of Fenwal Temperature Detectors.
- 125) Namco Limit Switch EDS No. 0940-006 EQ-06.

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- 128) NUS 6606-M080-001 Environmental Qualification for Marathon Motors.
- 129) NUS 6606-R382-001 Environmental Qualification for Rotron Fan Motors.
- 130) NUS 6606-R165-001 Environmental Qualification for Reliance Motors.
- 131) NUS 6606-W120-001 Environmental Qualification for Westinghouse Motors.
- 132) NUS 6606-C332-001 Environmental Qualification for Chromalox Pintubular Elements.
- 133) NUS 6606-H260-001 Environmental Qualification for Honeywell Fire Sensors.
- 134) Barton 289A Operational Time Analysis.
- 135) Barton 288A Operational Time Analysis.
- 136) Barton 368 Operational Time Analysis.
- 137) Barton 332 Operational Time Analysis.
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- 139) Foxboro Test Report No. 11-1059 (Seismic Vibration Testing of E10 Series Transmitters [SCAAP81]).
- 140) Foxboro Test Report No. 09-6005 (Maximum Credible Accident [MCA] Test on Differential & Gauge Pressure Transmitters [SCAAP87]).
- 141) Foxboro Test Report No. 13-1068 (Radiation Test of E10 Series Differential Pressure Transmitters of the MCA/FSW Type [SCAAP88]).
- 142) Foxboro Test Report No. 12-1075 (Radiation Test of E10 Series Differential Pressure Transmitter of the Standard Construction Type [SCAAP84]).
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- 144) NUS 6606-U150-001 Environmental Qualification for U.S. Electric Motors.
- 145) Raychem Test Reports.
- 146) Conax Test Reports.
- 147) Rosemount Interim Technical Manual.
- 148) Conax Test Reports.
- 149) D. G. C'Brien Aging Calculation.
- 150) Johnson Damper Motor Operator, Plant ID #32375, #32376, #32377.
- 151) Johnson Damper Motor Operator, Plant ID #32387.

- 152) Johnson Damper Motor Operator, Plant ID #32383.
- 153) Johnson Damper Motor Operator, Plant ID #32385.
- 154) Johnson Damper Motor Operator, Plant ID #32386.
- 155) Johnson Damper Motor Operator, Plant ID #32382, #32384.
- 156) Johnson Damper Motor Operator, Plant ID #32378, #32379, #32380.
- 157) EDS Report No. 04-0940-33 Radiation & Thermal Aging Evaluation of Safety Related Electrical Equipment, February 1982.
- 158) Magnetrol Level Detectors A-153-F, Plant ID #16695, 16696.
- 159) Letter to B. S. Brierley of WPSC from W. M. Brown of Automatic Switch Company, dated March 24, 1982.
- 160) Saturation Temperature Profile.
- 161) Schematic of Limit Switch #31233.
- 162) Schematic of Limit Switch #34039.
- 163) Schematic of Limit Switch #34040.
- 164) KNPP ICCA Pressure/Temperature Profile.
- 165) Square D Environmental Qualification Report No. 108-1.02-L14 for MCC 1-52B, 1-62B and 1-62H.
- 166) Nancc Model D2400X Limit Switch Aging Calculation - 1.
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- 168) Limitorque Valve Motor Class B Insulation Environmental Calculation.
- 169) Reliance BHE Fan Coil Motor Qualification Report NUC-9.
- 170) Letter to Ben S. Brierley, WPSC, from Brian Kidd, Limitorque Corporation, dated 8/25/82.
- 171) Letter to J. G. Thorgersen of WPSC from J. J. Lula of Fluor Power Service (KSP-6689), dated 6/11/82, plus HELE maps.
- 172) Qualification of Chevron SFI-2 Grease.
- 173) Qualification Report QTB 111 for Nanco Controls Limit Switches EA-740.
- 174) Reliance Motor Qualified Life Calculation.
- 175) Qualification Report QTB 105 for Nanco Controls Limit Switches EA-180.
- 176) Letter to Wisconsin Public Service Corporation from Eob Eolt, Chevron Research Company, dated 6/29/82.
- 177) Letter to Wisconsin Public Service Corporation from I. G. Surin, Surin-Westerman Ltd., dated 9/15/80.

- 178) Qualification Report for General Electric CB120B Relays.
- 179) Radiation Readings in High Fad Sample Room.
- 180) Qualification Report AQR-67368/Rev. 0 for ASCC (Catalog NP-1) Solenoid Valves.
- 181) AMP Qualification Test Report 100-11004.
- 182) Environmental Qualification - Terminal Boxes.
- 183) Letter to Wisconsin Public Service Corporation from F. Lin, Fluor Power Services, Inc., dated 8/24/82.
- 184) Magnetrol B730 Level Switches Operational Time Analysis.
- 185) Rockbestos Qualification of Firewall III Class 1E Electric Cables.
- 186) Engineering Analysis of ASCC Solenoid Valves - 1.
- 187) Engineering Analysis of ASCC Solenoid Valves - 2.
- 188) Engineering Analysis of Johnson Solenoid Valves - 1.
- 189) Engineering Analysis of ASCO Solenoid Valves - 3.
- 190) Engineering Analysis of ASCC Solenoid Valves - 4.
- 191) Engineering Analysis of ASCC Solenoid Valves - 5.
- 192) Engineering Analysis of ASCO Solenoid Valves - 6.
- 193) Engineering Analysis of ASCC Solenoid Valves - 7.
- 194) Engineering Analysis of ASCC Solenoid Valves - 8.
- 195) ASCC Model LB8300E61RU and LB8300C58RU Solenoid Valves Operational Time Analysis.
- 196) Qualification Test Report and Procedures for Ccnax RTD and Thermocouple Assemblies.
- 197) Letter to John Thorgersen of WPSC from F. H. Lin of Fluor Power Services (KPS-6878), dated 10/20/82.
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- 200) Thermal Aging Calculations of Brand Rex Instrument Cable.
- 201) Target Rock Corp. IEEE Qual. Report No. 2375 for Solenoid Valves.
- 202) Safety Injection Valve Engineering Analysis.
- 203) Steam Generator Blowdown Isolation Valve Analysis.
- 204) Operational Analysis CCW Supply to FCP's.

- 205) Kerite Splice Qualification Reports.
- 206) Qualification of Kconite Cable.
- 207) Letter to B. S. Brierley of WFSC from M. L. Shepherd of Eberline, dated 9/28/82.
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- 209) Kconite Test Report and Certification of Compliance.
- 210) General Atomics Qualification Report.
- 211) Rockbestos Fire Wall 3 Electrical Conductor Qualification Report.
- 212) Engineering Analysis of ASCC Solenoid Valves - 9.
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- 214) Barton Model 764 Qualification Test Report.
- 215) Qualification of Ckozel (Tefzel) Insulated Wire and Cable.
- 216) Engineering Evaluation of Data Acquisition Modules.
- 217) Qualification Tests for Rosemount Pressure Transmitter Model 1152.
- 218) Rosemount Pressure Transmitter 1152GF Operational Time Analysis.
- 219) Engineering Analysis of Johnson Solenoid Valves - 2.
- 220) Engineering Analysis of Johnson Solenoid Valves - 3.
- 221) Engineering Analysis of Johnson Solenoid Valves - 4.
- 222) Engineering Analysis of ASCC Solenoid Valves - 10.
- 223) Radiation Analysis for Allen Bradley Limit Switches Model 802T-AT.
- 224) Operational Time Analysis for Allen Bradley Limit Switches Model 802T-AT.
- 225) Engineering Analysis of Nebula Lubricating Grease, Model E550-EP-1.
- 226) Engineering Analysis of Chevron Lubricating Grease, Model HRE-2 & SRI-2.
- 227) Engineering Analysis of Foxboro RTD's - 1.
- 228) Component Numbering Changes.
- 229) Control Room Air Conditioning Remote Control Panel 1F-0562.
- 230) Rosemount Model 1153 Series D Preliminary Qualification Report.
- 231) Qualification Test Report and Analysis of Wide Range Containment Level System, GEMS TLI.

- 232) Rocktestos Qualification Reports QF2805 & QF1806B2.
- 233) Engineering Evaluation of Materials Used in the Fabrication of Texas Instruments Thermostats.
- 234) Engineering Evaluation of Labarge Heater Lead Wire.
- 235) Qualification Report for ASCC Solenoid Valve No. 33256.
- 236) Kerotest Backflow Test Report NE-109T.
- 237) Qualification Test Report for Two 45 KVA Transformers for Square D Company - Report No. 44509-1.
- 238) Nuclear Environmental Qualification of Class IE Transformers - Square D Company.
- 239) Main Steam Check and Isolation Valves Disc Impact Analyses - 9/6/73.
- 240) Nuclear Environmental Qualification Test Program on Rosemount 1153 Series D Pressure Transmitters - Wyle Report No. 45592-3, 3 Volumes, Dated May 4, 1983.
- 241) Nuclear Environmental Qualification Test Program on Foxboro N-E10 Series Pressure Transmitters - Wyle Report No. 45592-4, 3 Volumes, Dated May 18, 1983.
- 242) Raychem Heat Trace Test Report, Dated February 29, 1980.
- 243) Epoxy Grout Evaluation, by S. L. Fernhoft, dated July 22, 1983.
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- 245) Kewaunee Unit 1 Pipe Rupture Analysis of Feedwater Piping Outside Containment.
- 246) Main Steam and Main Feedwater Valve Review.
- 247) Emergency Procedures Instrument List.
- 248) Active Status Panels' Instrument List.
- 249) CA Classification of Electrical Equipment Important to Safety.
- 250) G. H. Bettis Model NCE Pneumatic Actuator Test Report.
- 251) Kewaunee Nuclear Power Plant Earthquake Analysis.
- 252) IPS-1085 Design Qualification Test Report of Anacanda Flexible Conduit for Conax Corporation (W/C 6-7E050).
- 253) IPS-960 Installation Manual for Electric Conductor Seal Assemblies With Pipe Thread Equipment Interface for Palo Verde Units 1, 2, and 3.
- 254) IPS-1079 Design Qualification Test Report for Electric Conductor Seal Assembly (ECSA) for Conax Corporation (W/C 6-7E060).
- 255) Specification for Crimping of Electrical Connectors (Conax).
- 256) Operator Maintenance - KNPP (Limiterque Corporation).

- 257) Rosemount Model 1153 Series D Product Data Sheet 2338 - Alkaline Nuclear Pressure Transmitters.
- 258) Rosemount Model 1153 Series B Product Data Sheet 2302 - Alkaline Nuclear Pressure Transmitters.
- 259) Conversion of 10-50 MA Instrumentation Systems for Use With 4-20 MA Transmitters - Rosemount Report E8300002 Revision A.
- 260) Type Test Report for Extension of Qualified Life of Pressure Transmitters Rosemount Models 1153 Series B and E Rosemount Report E8300010, Rev. A.
- 261) IES-1081 Design Qualification Test Report Data Regarding Conax Corporation Electric Conductor Seal Assembly Design (ECSA) as Incorporated During the Utility Transmitter Qualification Group - Rosemount 1153 Series E Pressure Transmitter Type Test Qualification Program.

APPENDIX CHOW TO SPECIFY KNPP ENVIRONMENTAL PARAMETERSINDEX

<u>TOPIC</u>	<u>PAGE</u>
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Figure EQ-2	C-3
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Area Tables	C-30
Operational Times	C-53
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APPENDIX CHOW TO SPECIFY KNPP ENVIRONMENTAL PARAMETERS

The purpose of this appendix is to provide a step-by-step procedure for specifying KNPP normal and accident environmental parameters. This information is necessary to determine if equipment requires **environmental qualification** for DCR work and for purchasing. Figure EQ-2 is a convenient way to document your work.

STEP 1: DEFINE ACCIDENT

Is the equipment required to function for a LOCA or for a HELB or for both? Check the appropriate box on Form EQ-2.

STEP 2: DEFINE LOCATION

Record the KNPP location of the equipment on Figure EQ-2. This may be obtained from the equipment lists for existing equipment, or from the Responsible Engineer for DCR's.

STEP 3: FIND ACCIDENT LOCATION ON MAPS

This appendix contains maps of KNPP labeled "L-" and "H-". The "L-" maps are used if the defined accident is a LOCA, the "H-" maps if the defined accident is a HELB. If both accidents must be considered, find the equipment location on both sets of maps. Since the LOCA envelopes the HELB inside containment, there is only one set of maps for locations inside containment. The map will refer you to a "Table C-". Record the map number(s) and table number(s) on Figure EQ-2.

STEP 4: TRANSCRIBE FROM TABLES

Transcribe from the table(s) to Figure EQ-2 the normal and accident values for the following parameters:

- temperature
- humidity
- pressure
- chemical spray
- submergence

If using both HELB and LOCA tables, note the normal values for the above parameters will be the same for both accidents. However, the accident values will differ--record on Figure EQ-2 only the most harsh accident value for each parameter (greater temperature and pressure).

Most of the tables contain normal and accident radiation values which may be

transcribed directly to Figure EQ-2. Two of the tables refer you to Table V of this appendix. Additional instructions are contained on the first page of Table V.

Check off on Figure EQ-2 the parameters which are **harsh**. The **harsh** parameters are listed at the bottom of Tables C-1 through C-22. If one or more parameters are **harsh**, transcribe the operating time from Table C-23 to Figure EQ-2. If there are no **harsh** parameters, check "**mild**."

FIGURE EQ-2

HOW TO SPECIFY KNPP ENVIRONMENTAL PARAMETERSEquipment ID Number: _____ Check if List Attached

System: _____

Manufacturer/Model: _____

STEP 1: Define Accident: LOCA HELB Both

STEP 2: Define Location: _____

STEP 3: Map(s) Used: _____

Table(s) Used: _____

STEP 4: Transcribe Information:

<u>Parameter, Units</u>	<u>Normal</u>	<u>Accident</u>
Temperature, °F	_____	_____
Pressure, psia	_____	_____
Relative humidity, %	_____	_____
Chemical spray		
pH		_____
Boric acid, ppm		_____
Sodium hydroxide, wt %		_____
Submergence		_____
Radiation, TID		
RAD, gamma	_____	_____
RAD, beta		_____
Aging	40 years	
Operating Time		_____

The environment is:

- Mild
- Harsh for the following parameters(s)
- | | |
|--------------------------------------|---|
| <input type="checkbox"/> Temperature | <input type="checkbox"/> Pressure |
| <input type="checkbox"/> Humidity | <input type="checkbox"/> Chemical Spray |
| <input type="checkbox"/> Submergence | <input type="checkbox"/> Radiation |

Completed by: _____
Signature

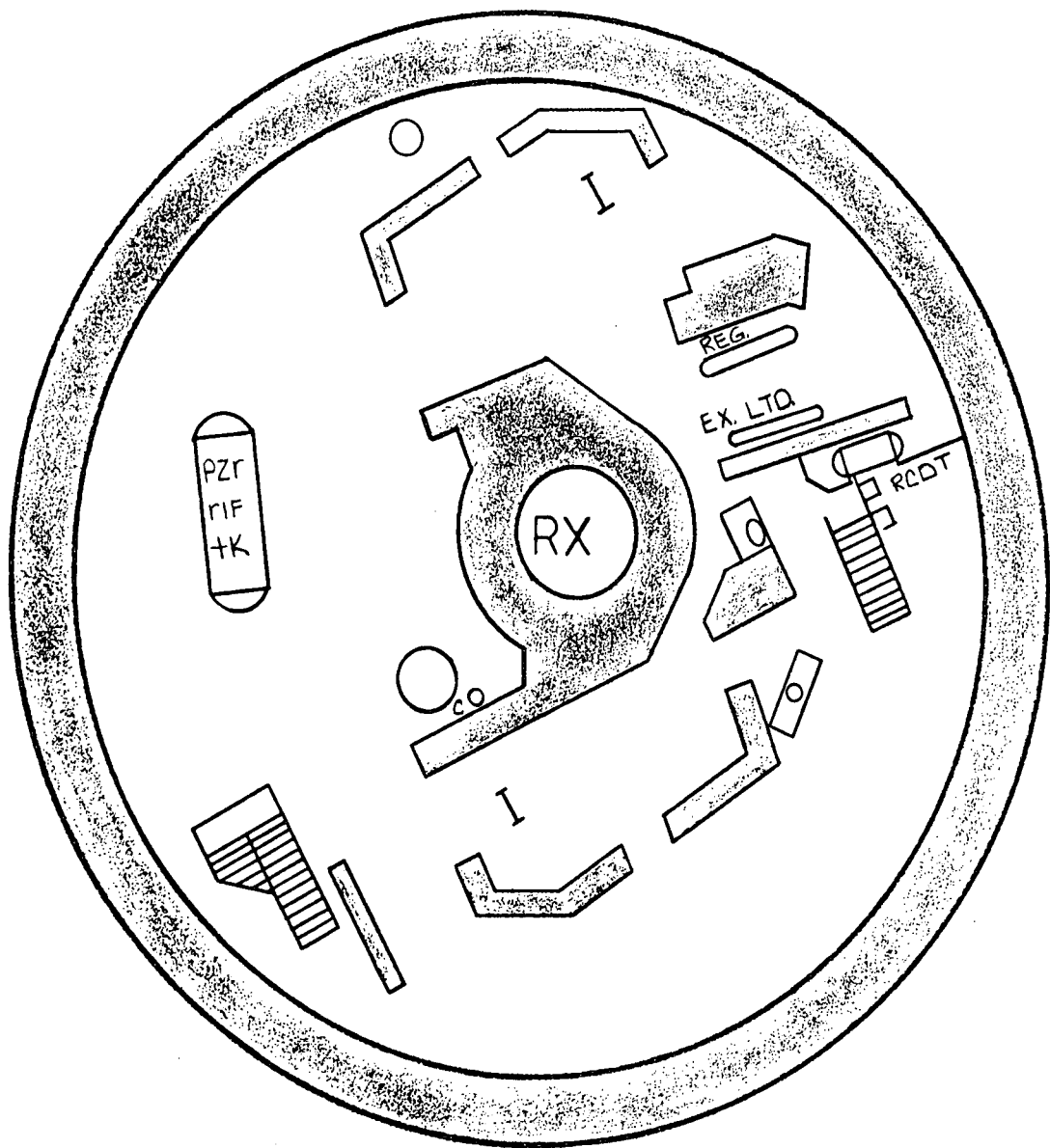
Date: _____

AREA DRAWINGS FOR FINDING ENVIRONMENTAL PARAMETERS

NOTES ON USE:

1. To use these drawings, you must know the safety-related purpose of the equipment: if its purpose is to prevent or mitigate the consequences of a Loss of Coolant Accident, refer to a drawing beginning with "L-"; if its purpose is to prevent or mitigate the consequences of a High Energy Line Break, refer to a drawing beginning with "H-". Note that all Reactor and Shield Building area maps are "L-" type; this is because a High Energy Line Break inside containment is enveloped by the Loss of Coolant Accident.
2. Area Drawing Index:

<u>DWG NO.</u>	<u>DESCRIPTION</u>	<u>PAGE NO.</u>
L-1	Reactor and Shield Building., El. 592'	C-5
L-2	Reactor and Shield Building., El. 606'	C-6
L-3	Reactor and Shield Building., El. 626'	C-7
L-4	Reactor and Shield Building., El. 649'6"	C-8
L-5	Aux. Bldg. SV Zone, El. 586'	C-9
L-6	Aux. Bldg. SV Zone, El. 606'	C-10
L-7	Aux. Bldg. SV Zone, El. 626' & Misc. Floors	C-11
L-8	Aux. Bldg. non-SV T = 145	C-12
L-9	Aux. Bldg. non-SV T = 145	C-13
L-10	Aux. Bldg. non-SV T = 120	C-14
L-11	Aux. Bldg. non-SV T = 115	C-15
L-12	Aux. Bldg. non-SV T = 110	C-16
L-13	Aux. Bldg. Mis. Floors	C-17
L-14	Aux. Bldg. RHR Pump Pit and CRDM Room	C-18
L-15	Turb. Bldg. - Class I Aisle and Admin Bldg. D/G Rooms	C-19
L-16	Screenhouse	C-20
L-17	Turb. Bldg. - Battery Rooms	C-21
H-1	Auxiliary Bldg. Basement	C-22
H-2	TDAFW Pump Room	C-23
H-3	Aux. Bldg. Mezzanine Floor, El. 606'	C-24
H-4	Aux. Bldg. Operating Floor, El. 626'	C-25
H-5	Aux. Bldg. Misc. Floors, El. 616', 618' and 649'6"	C-26
H-6	Aux. Bldg. Misc. Floors, El. 642'3", 657'6" and 675'	C-27
H-7	Turb. Bldg. - Class I Aisle and Admin. Bldg. D/G Rooms	C-28
H-8	Turb. Bldg. - Battery Rooms	C-29



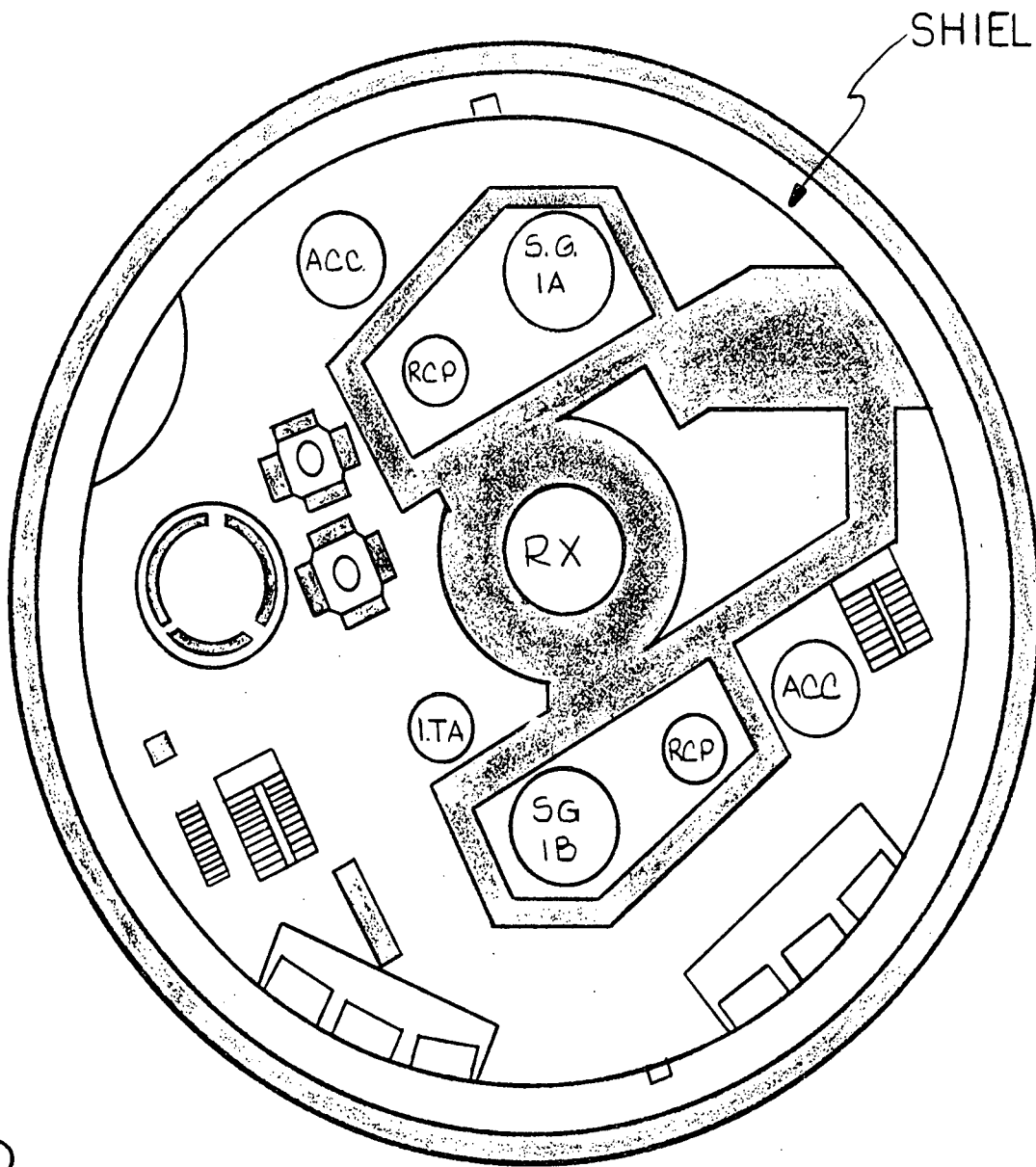
REACTOR BUILDING
 BASEMENT FLOOR
 ELEVATION 592'-0"

REF: TABLE C-1 FOR
 CONT. BLDG., TABLE C-2 FOR
 SHIELD BUILDING

REV. 0
 12-19-83

C-5

DWG. NO. L-1



SHIELD BUILDING

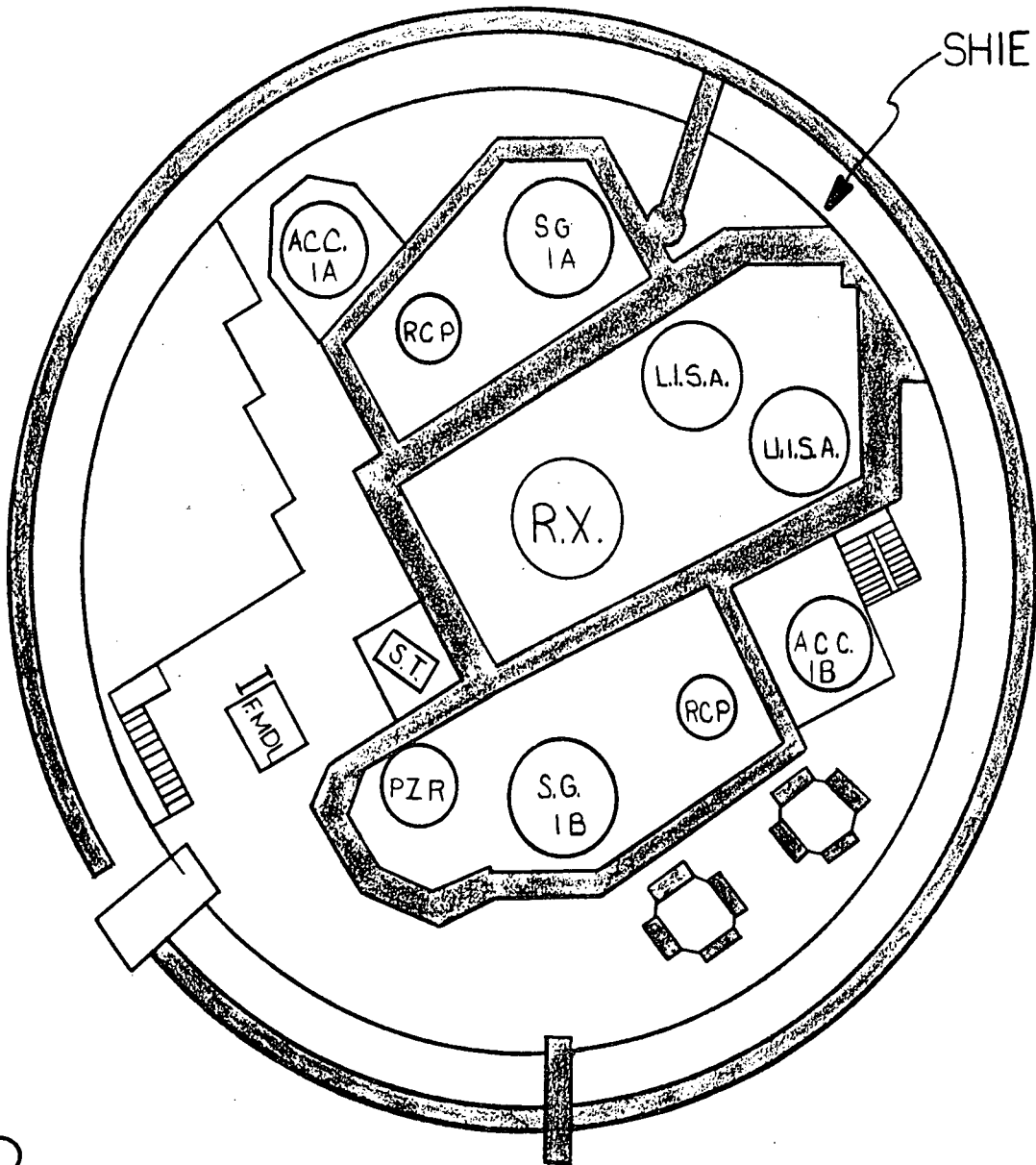
REACTOR AND SHIELD BUILDING
GROUND LEVEL FLOOR
ELEVATION 606'-0"

REF: TABLE C-1 FOR
CONT. BLDG, TABLE C-2 FOR
SHIELD BUILDING

C-6

REV. 0
12-19-83

DWG. NO. L-2



SHIELD BUILDING

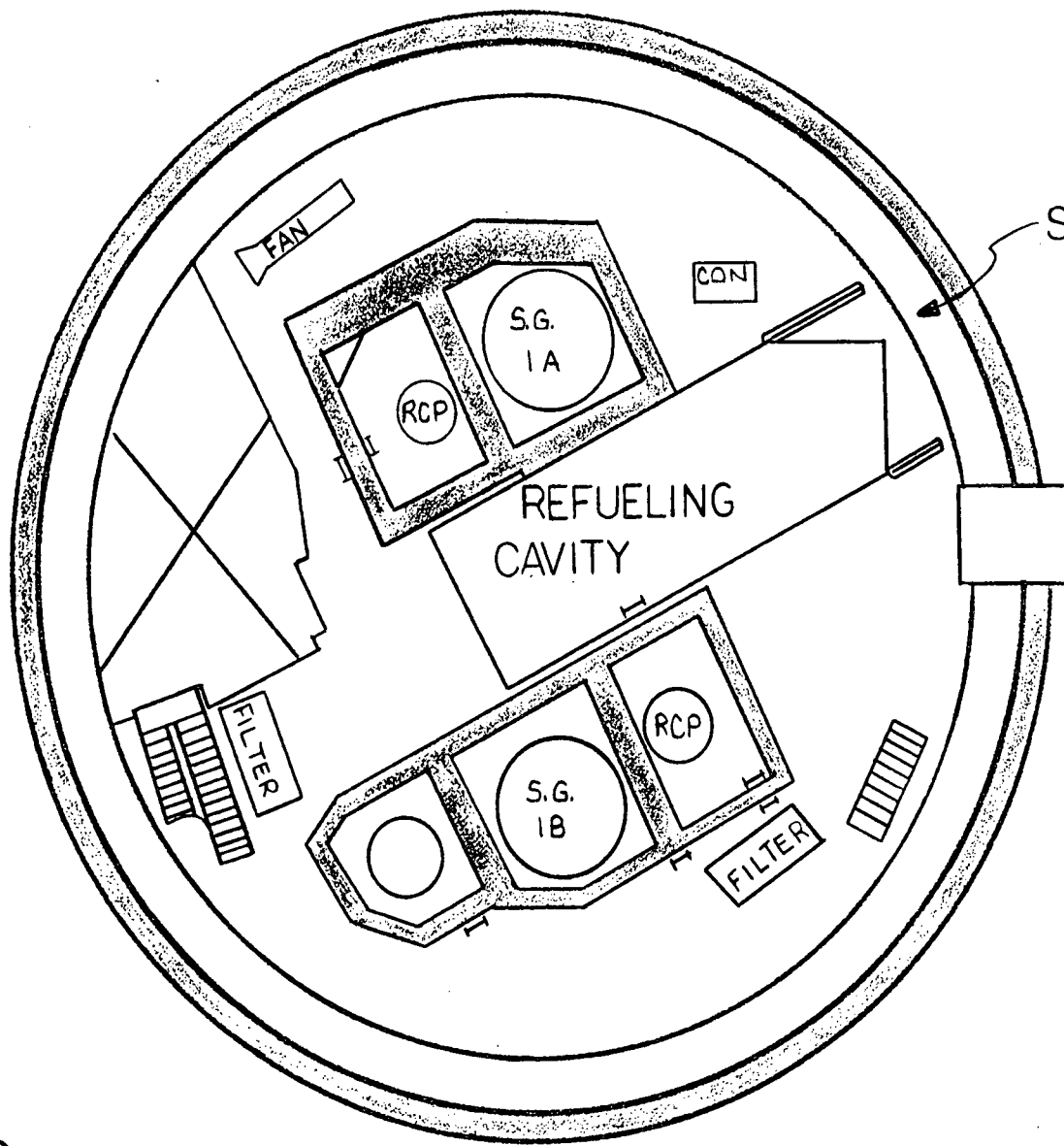
REACTOR AND SHIELD BUILDING
INTERMEDIATE FLOOR
ELEVATION 626'-0"

REF: TABLE C-1 FOR
CONT. BLDG, TABLE C-2 FOR
SHIELD BUILDING

C-7

REV. 0
12-19-83

DWG. NO. L-3



SHIELD BUILDING

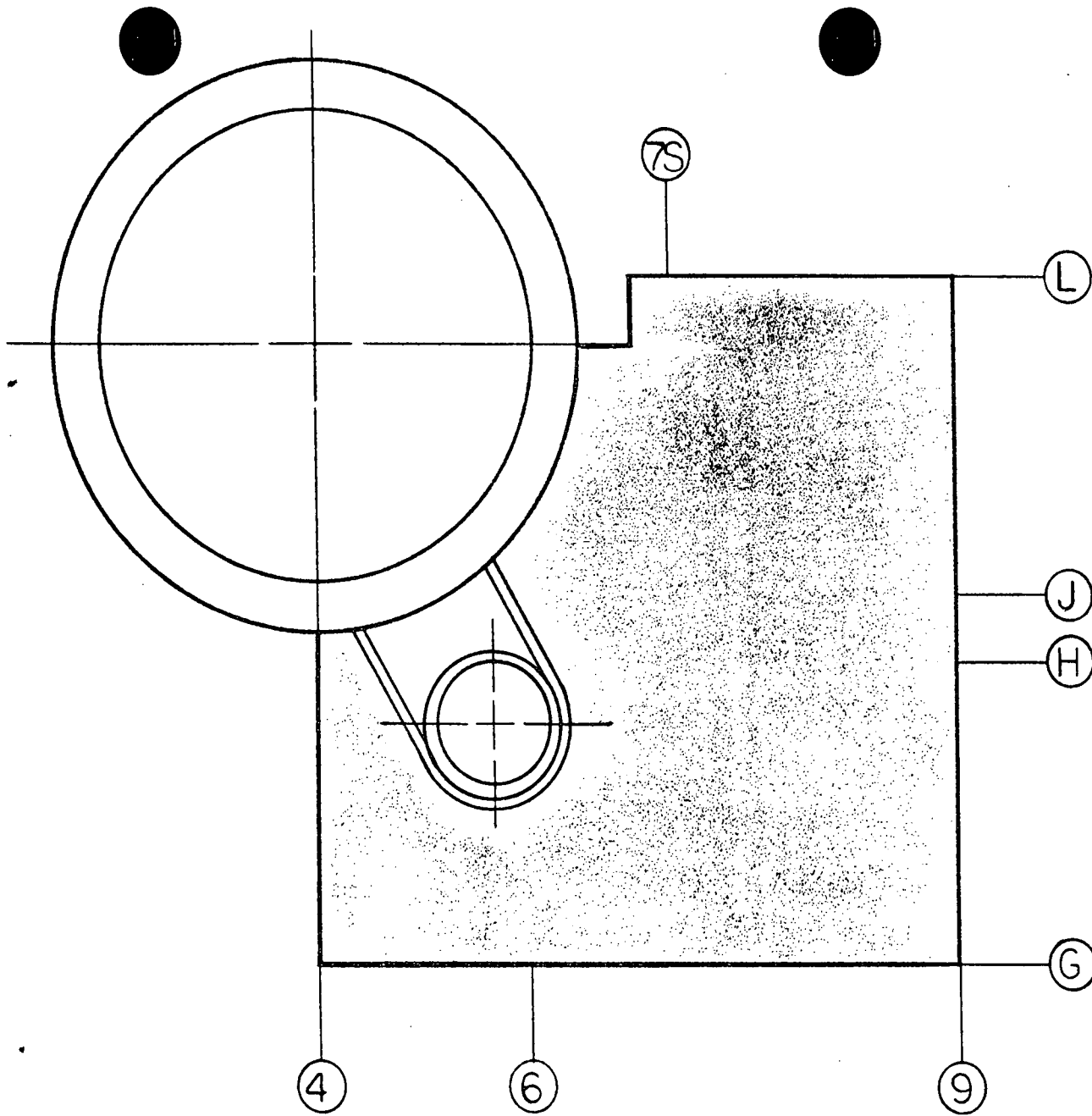
REACTOR AND SHIELD BUILDING
REFUELING FLOOR
ELEVATION 649'-6"

REF: TABLE C-1 FOR
CONT. BLDG, TABLE C-2 FOR
SHIELD BUILDING

C-8

REV. 0
12-19-83

DWG. NO. L-4



—NORTH→

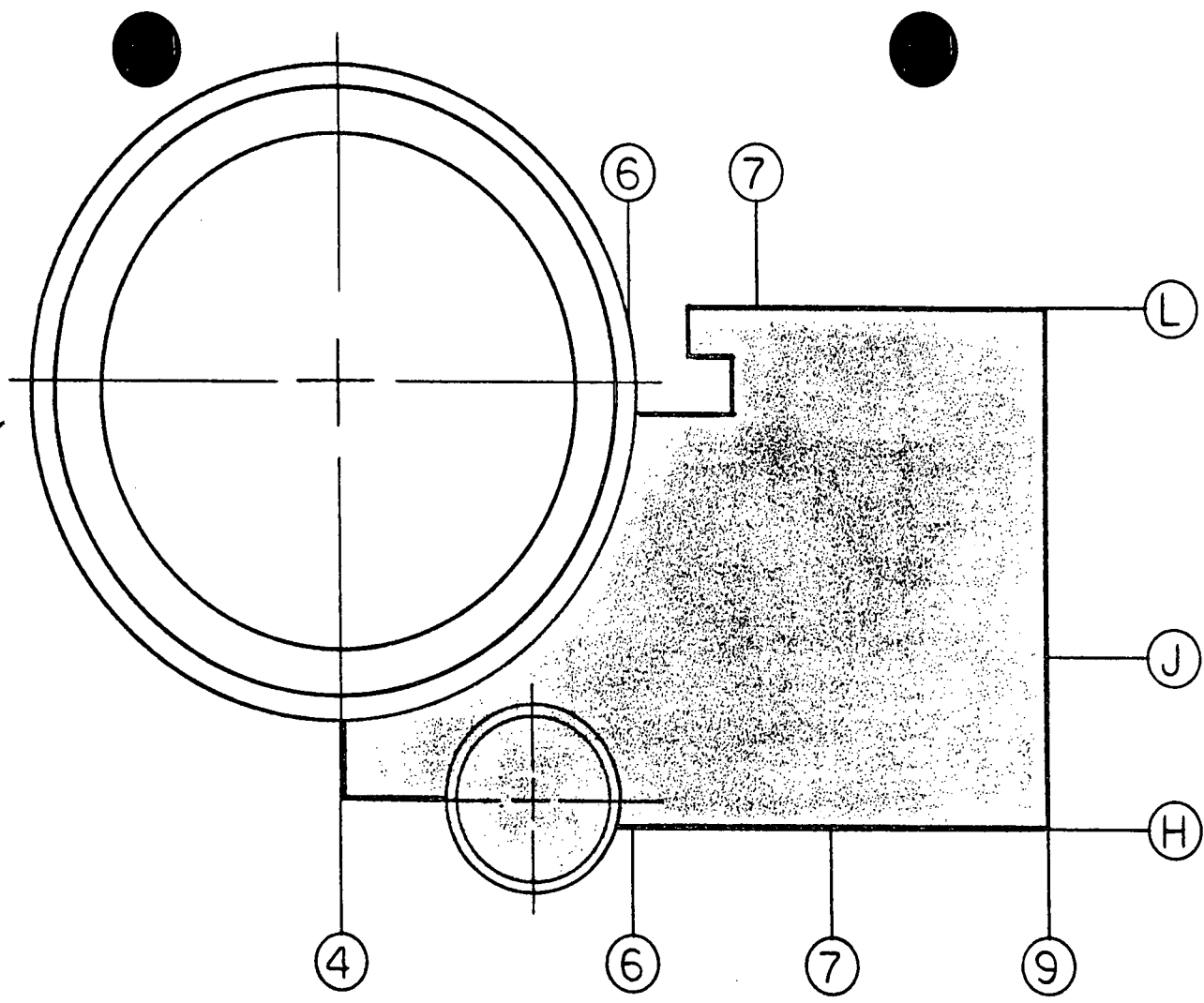
AUXILIARY BUILDING
 BASEMENT FLOOR
 ELEVATION 586'-0"
 SV ZONE

REF: TABLE C-4

C-9

REV. 0
 12-19-83

DWG. NO. L-5



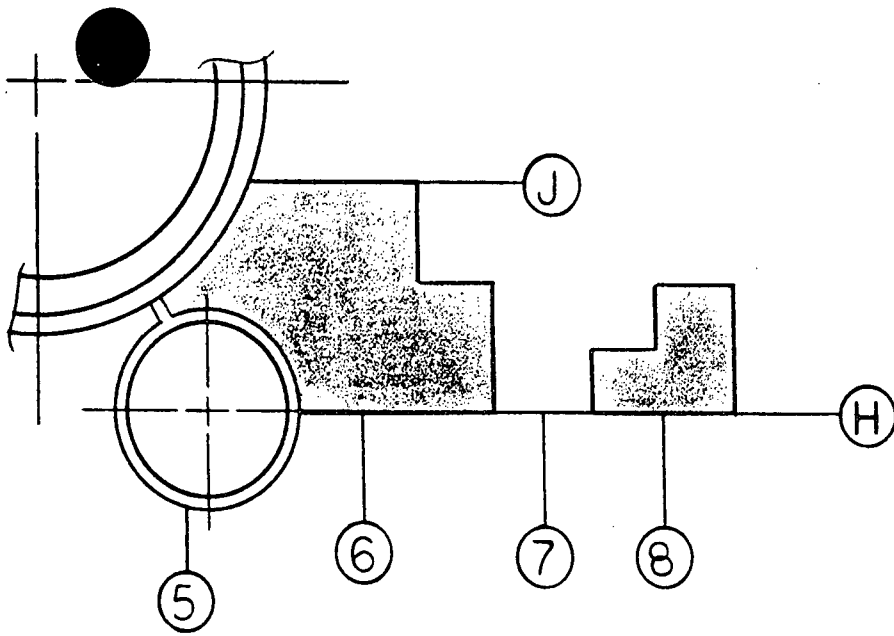
AUXILIARY BUILDING
MEZZANINE FLOOR
ELEVATION 606'-0"
SV ZONE

REF: TABLE C-4.

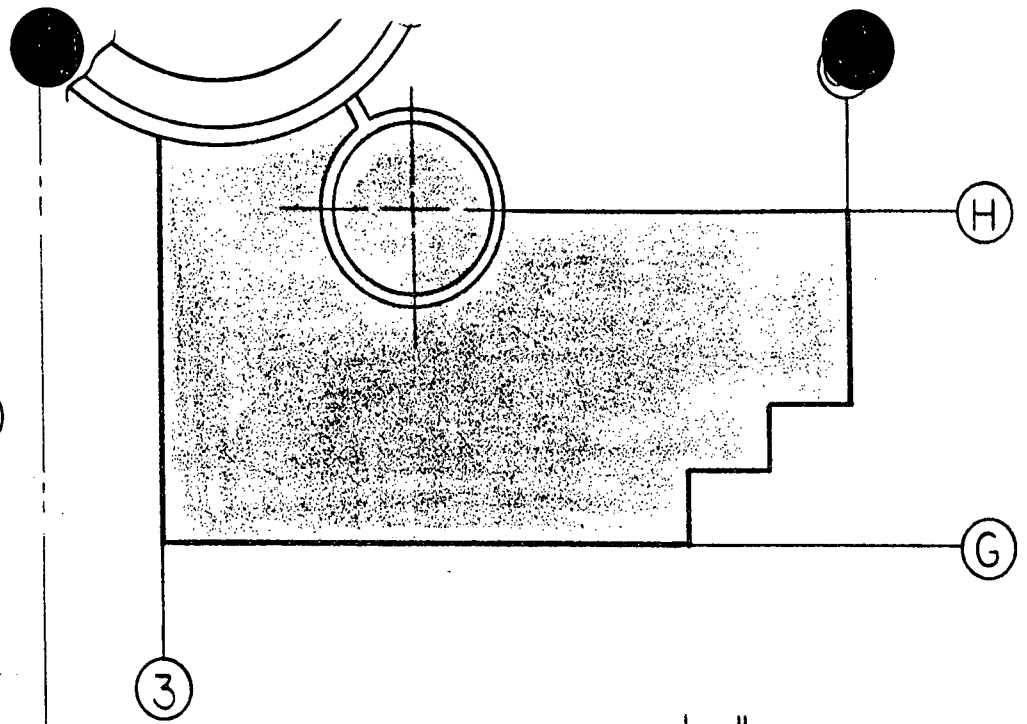
C-10

REV. 0
12-19-83

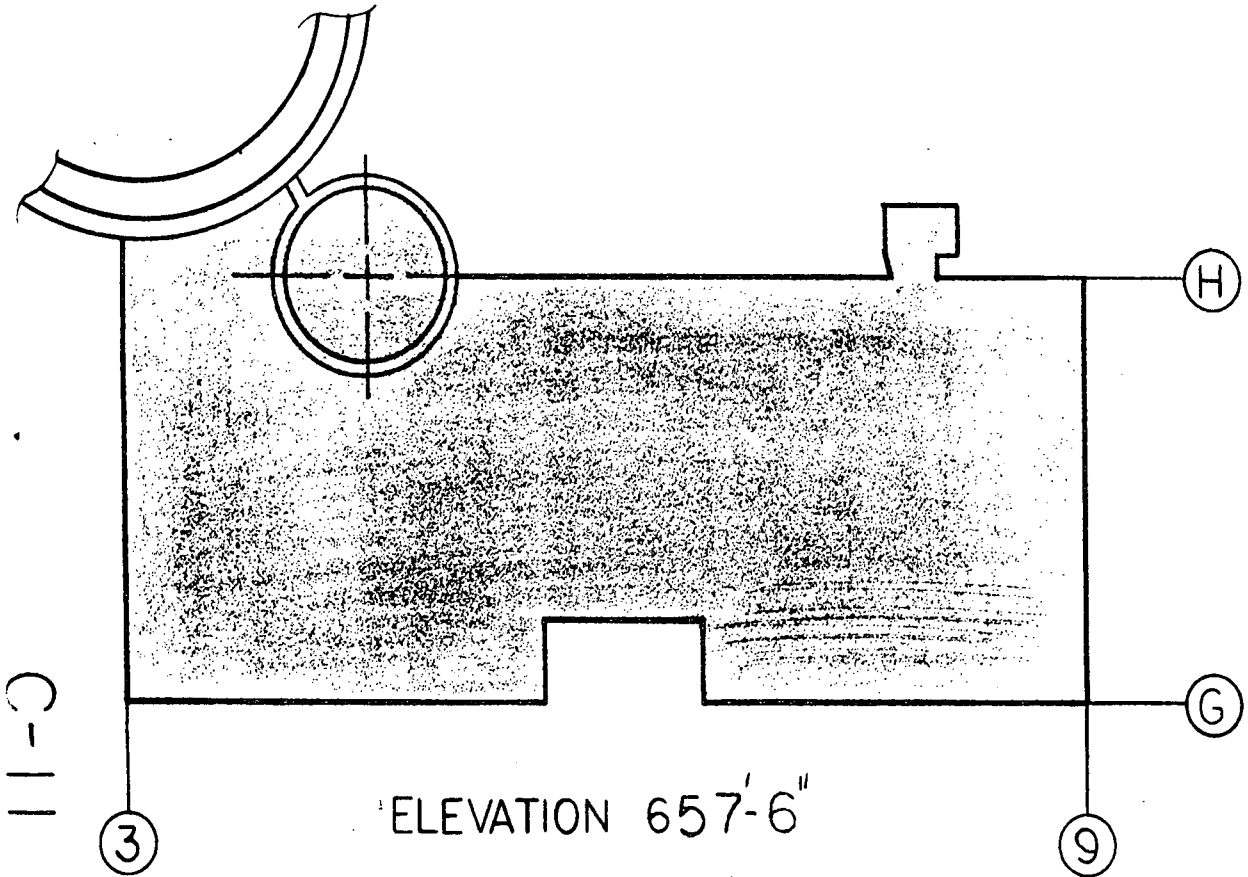
DWG NO L-6



OPERATING FLOOR
ELEVATION 626'-0"



ELEVATION 642'-3"



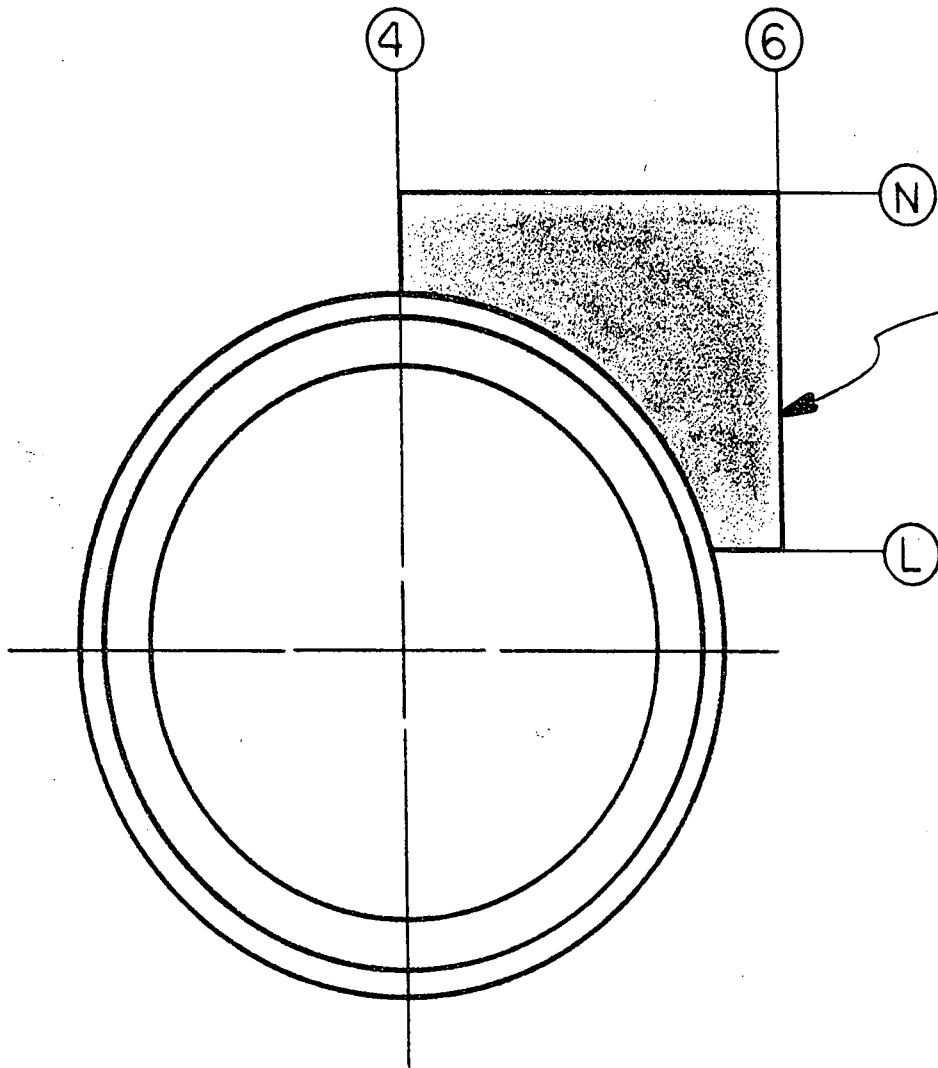
ELEVATION 657'-6"

AUXILIARY BUILDING
MISC FLOORS &
OPERATING FLOOR
SV ZONE

REF: TABLE C-4

REV. 0
12-19-83

DWG. NO. L-7



SPACE BETWEEN
ELEVATION 618'-0" TO 639'-6"

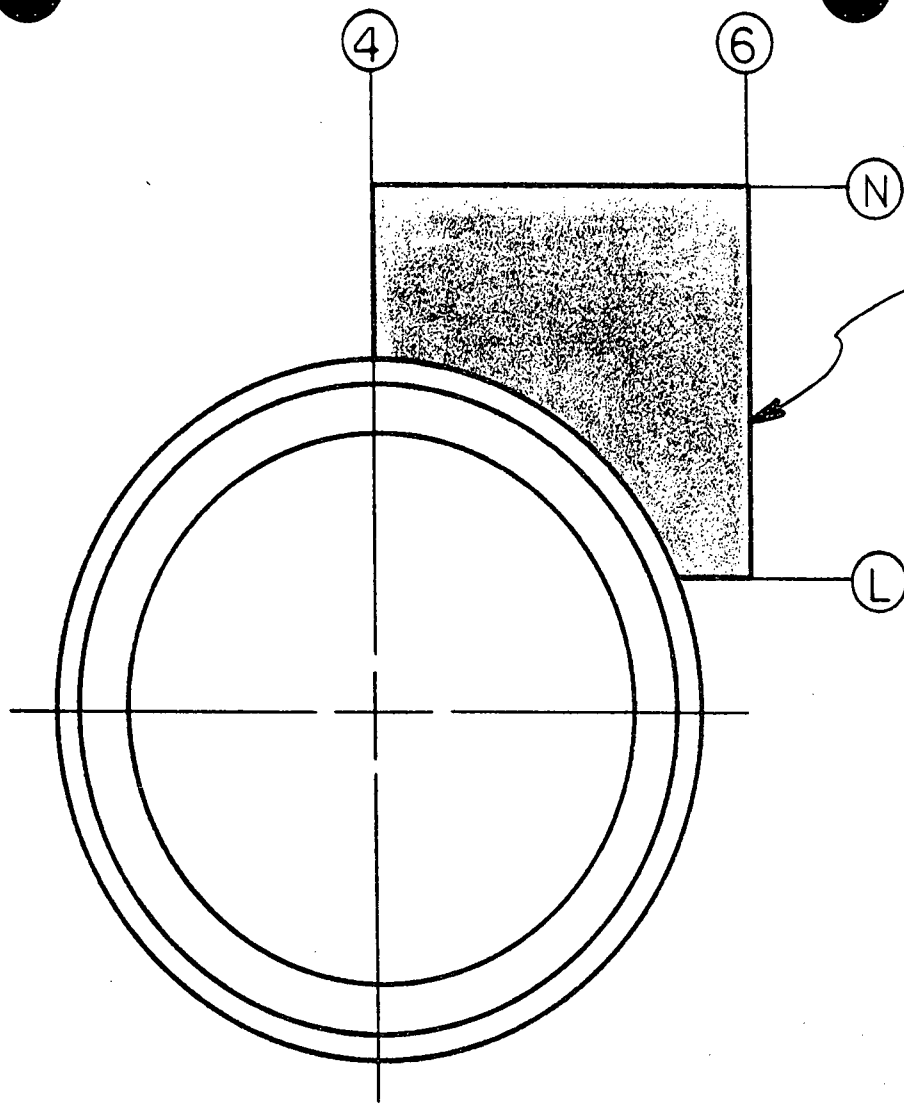
AUXILIARY BUILDING
MSIV AREA
TEMPERATURE = 145° F
NON-SV
REF: TABLE C-3

C-12

REV. 0
12-19-83

DWG. NO. L-8

— NORTH 



SPACE BETWEEN
ELEVATION 606'-0" TO 618'-0"

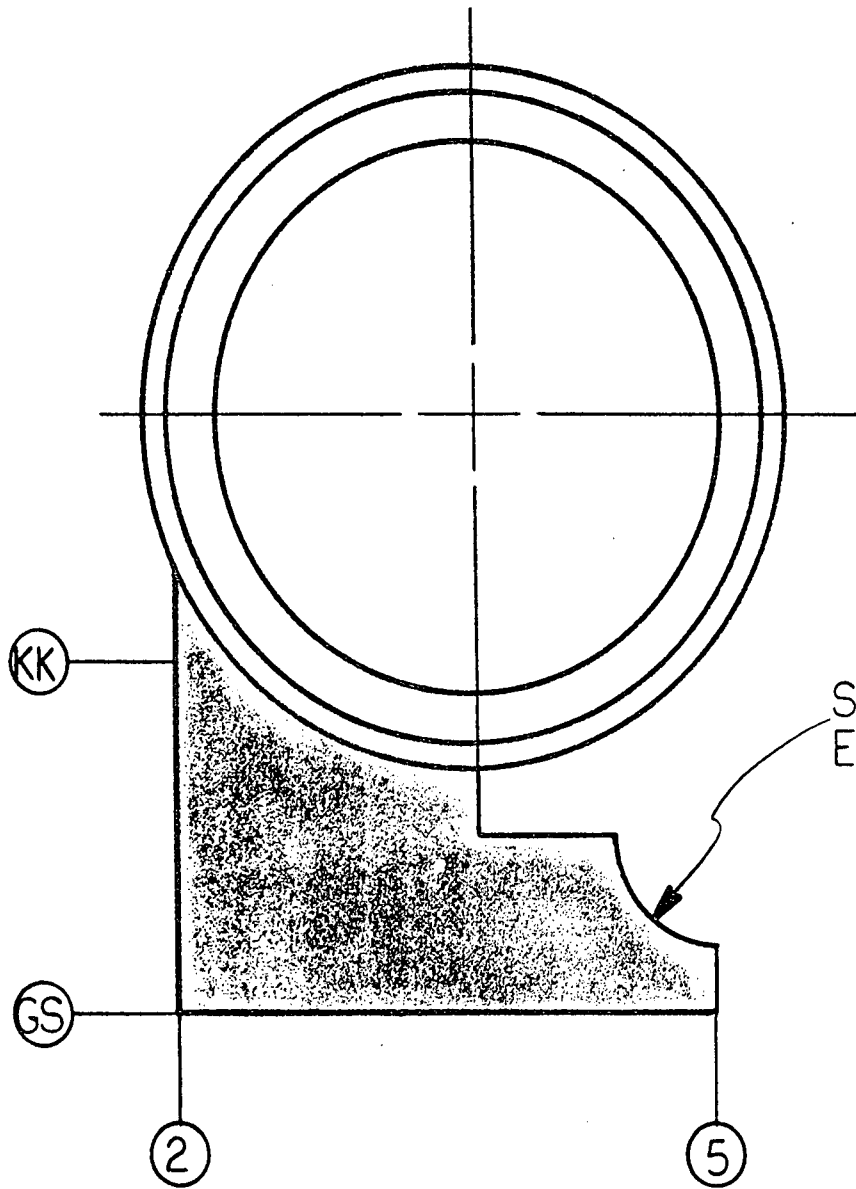
AUXILIARY BUILDING
FW ISOL AREA
TEMPERATURE = 130° F
NON-SV

REF: TABLE C-3

C-13

REV. 0
12-19-83

DWG. NO. L-9



—NORTH→

SPACE BETWEEN
ELEVATION 606'-0" TO 626'-0"

AUXILIARY BUILDING
S G BLOWDOWN TANK AREA
TEMPERATURE = 120°F
NON SV

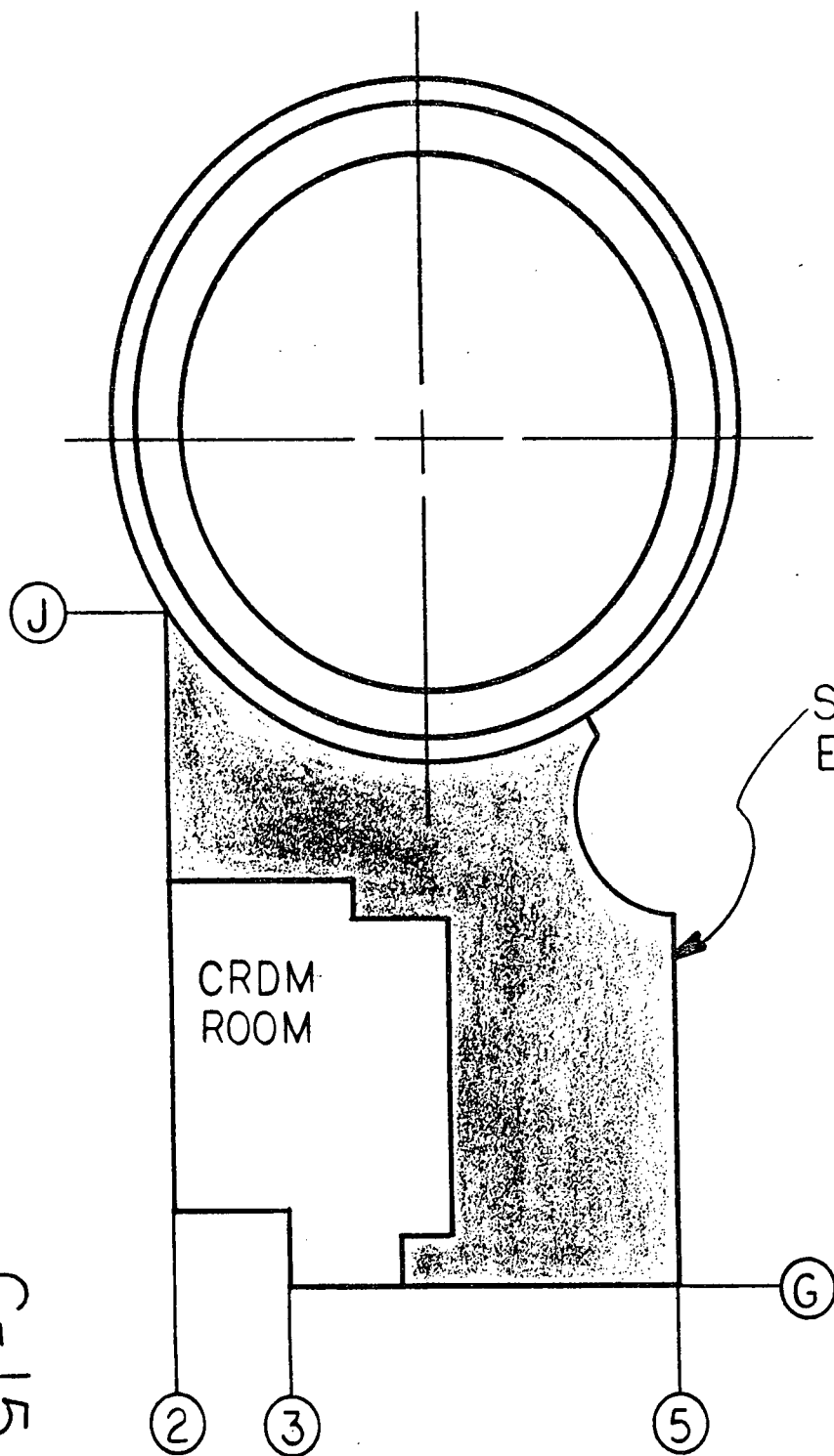
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REV. 0
12-19-83

DWG. NO. L-10

C-14

— NORTH —>



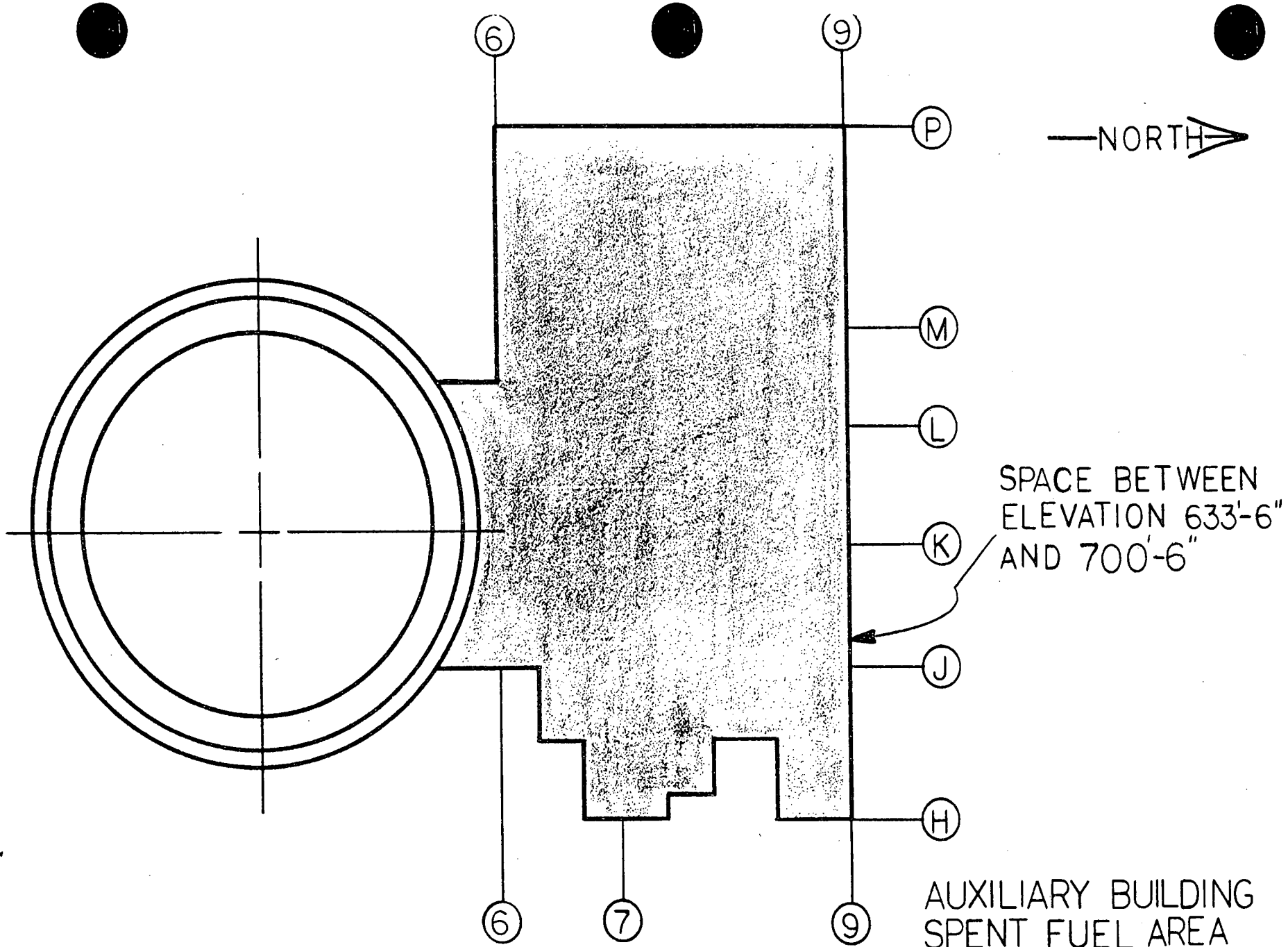
SPACE BETWEEN
ELEVATION 616/626 TO 642'-0"

AUXILIARY BUILDING
MSIV AND FW ISOL VALVE AREA
TEMPERATURE = 115° F
110-SV

REF: TABLE C-3

REV. 0
12-19-83

DWG. NO. L-11



— NORTH 

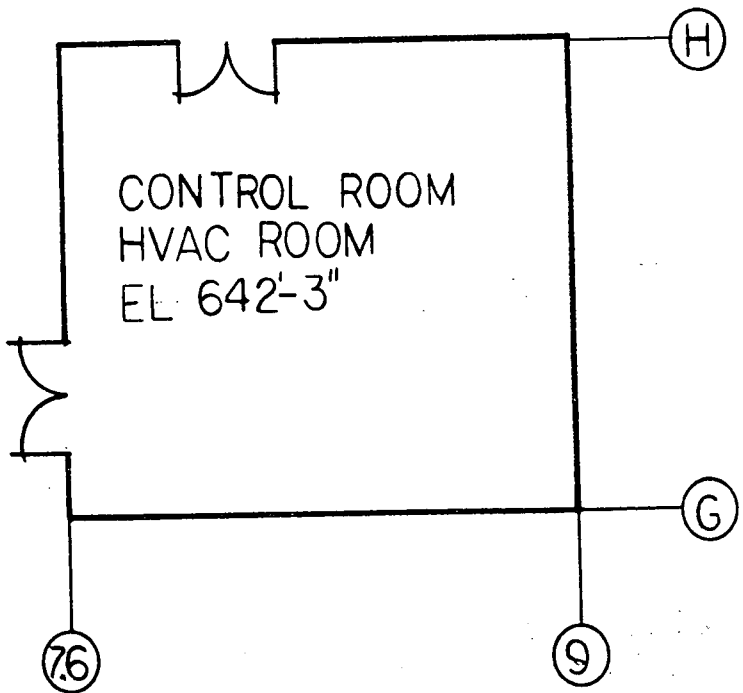
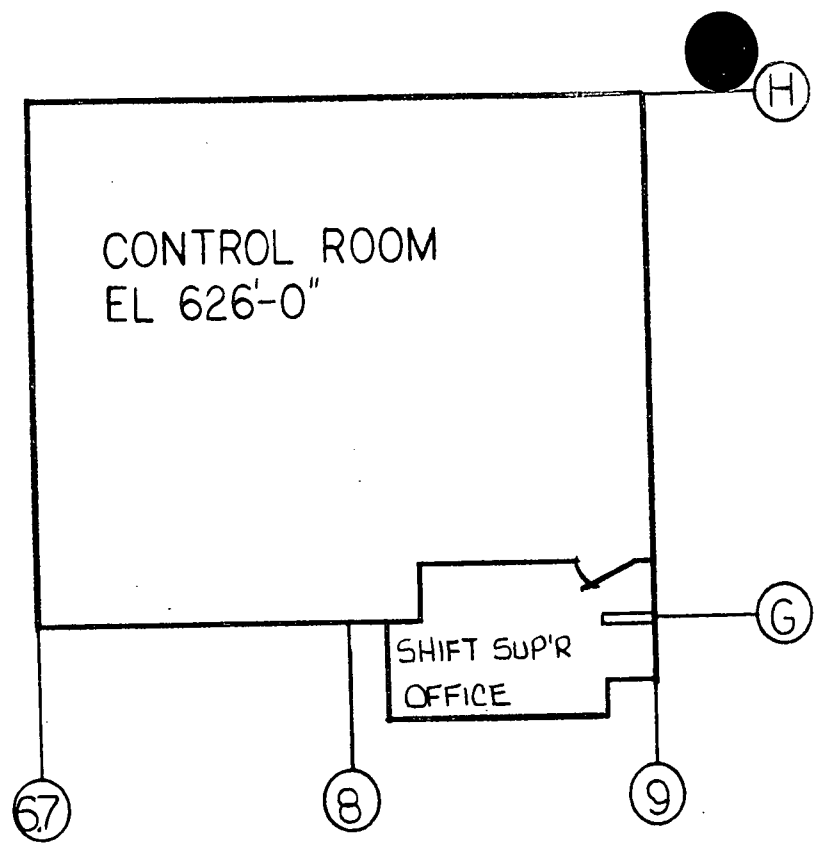
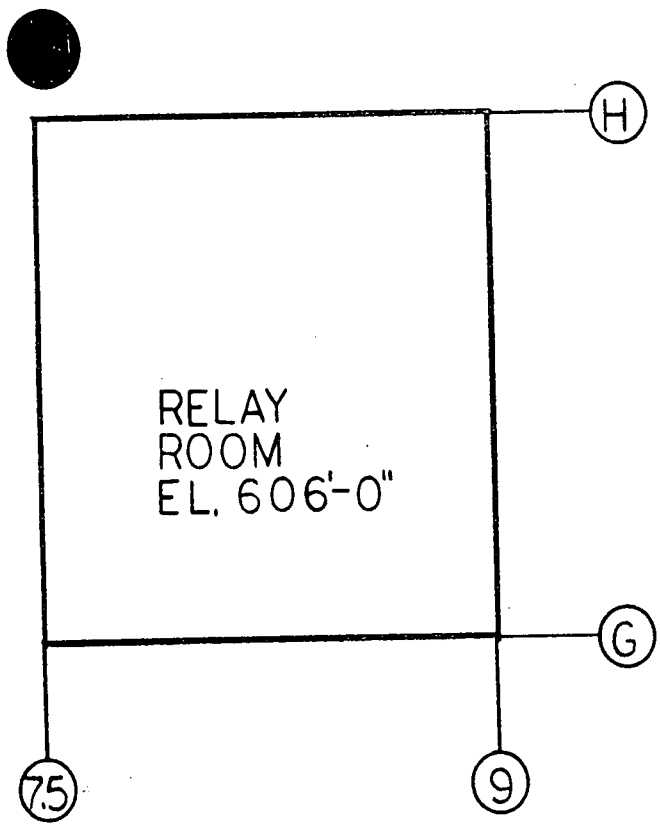
SPACE BETWEEN
ELEVATION 633'-6"
AND 700'-6"

AUXILIARY BUILDING
SPENT FUEL AREA
TEMPERATURE = 110° F
NON-SV
REF: TABLE C-3

REV. 0
12-19-83

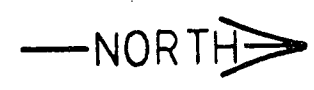
C-16

DWG NO. L-12



AUXILIARY BUILDING
MISC ROOMS

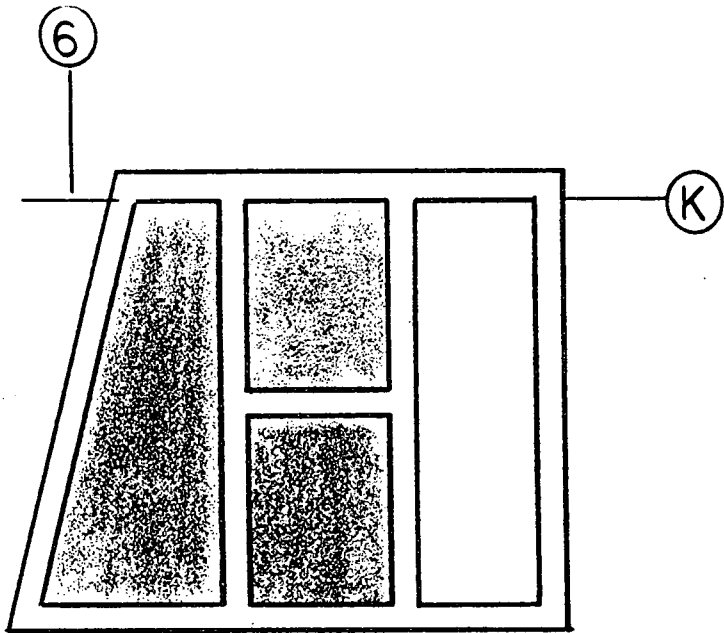
- | | |
|----------------|--------------|
| REF: TABLE C-5 | CONTROL ROOM |
| TABLE C-6 | RELAY ROOM |
| TABLE C-7 | CR HVAC ROOM |



C-17

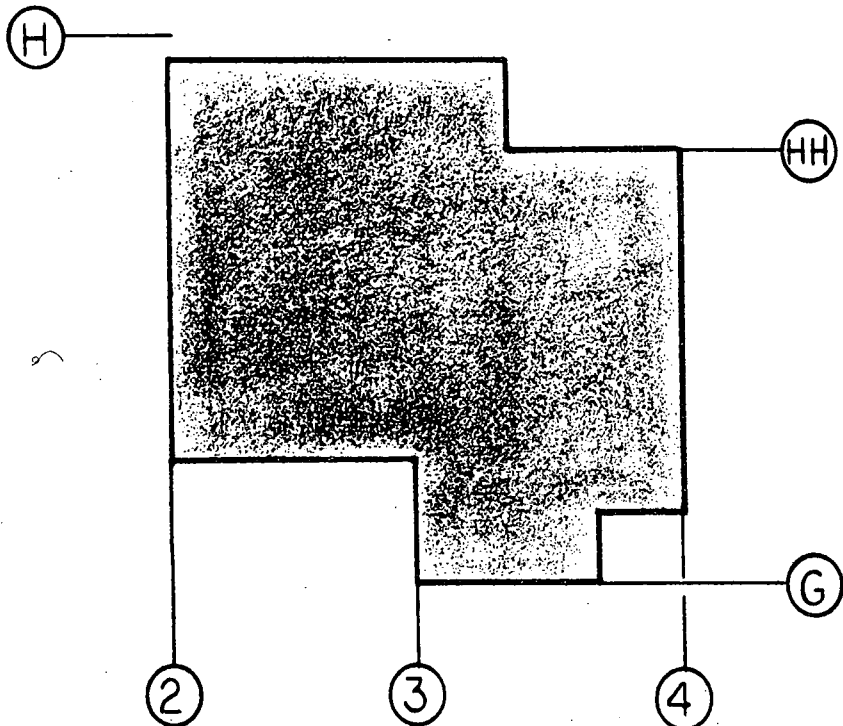
REV. C
12-19-83

DWG. NO. L-13



AUXILIARY BUILDING
ELEVATION 568'-0"
RHR PUMP PIT AREA

REF: TABLE C-8



AUXILIARY BUILDING
ELEVATION 626'-0"
CRDM ROOM

REF: TABLE C-9

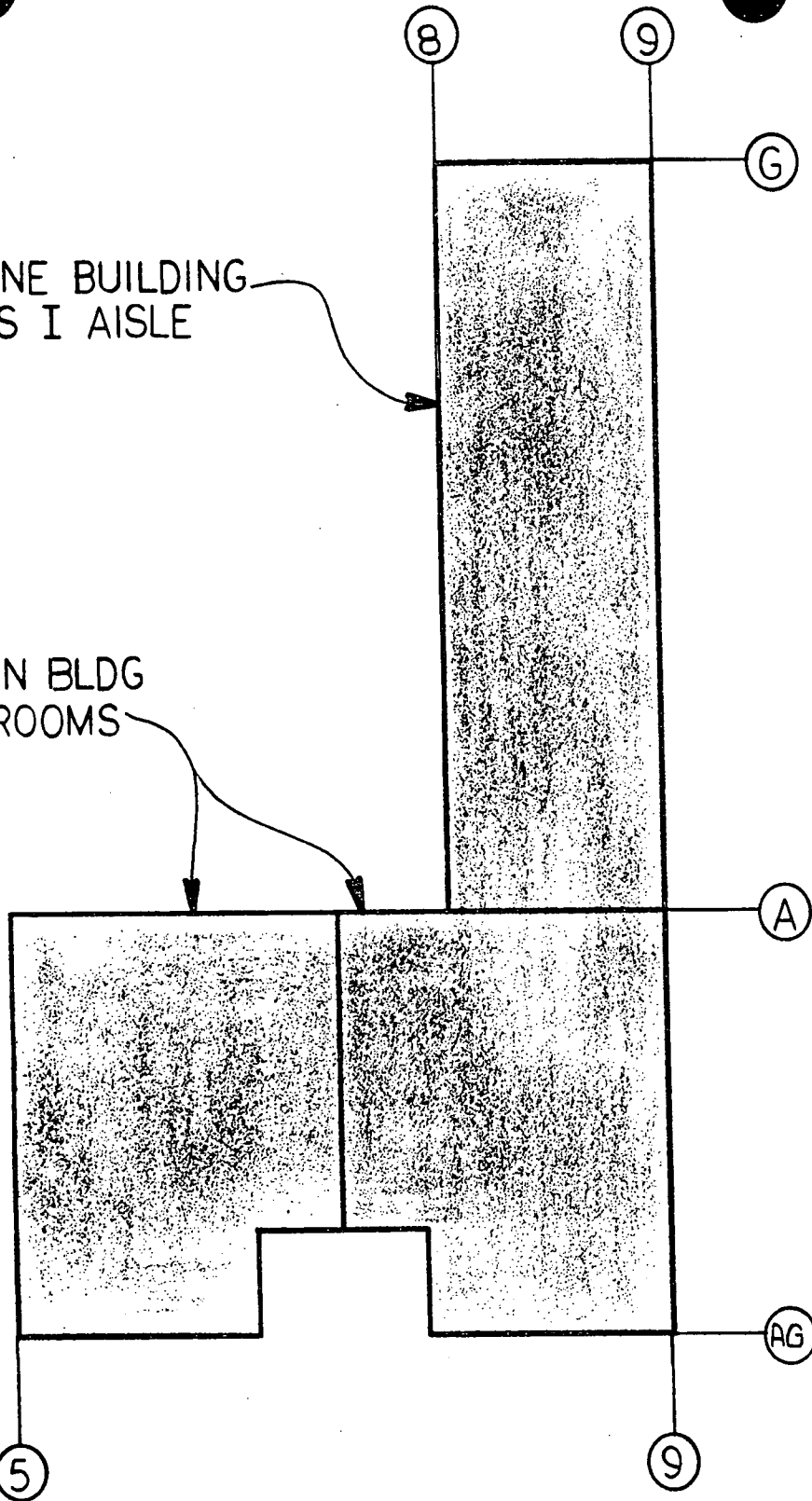
C-18

REV. 0
12-19-83

DWG. NO. L-14

TURBINE BUILDING
CLASS I AISLE

ADMIN BLDG
D/G ROOMS



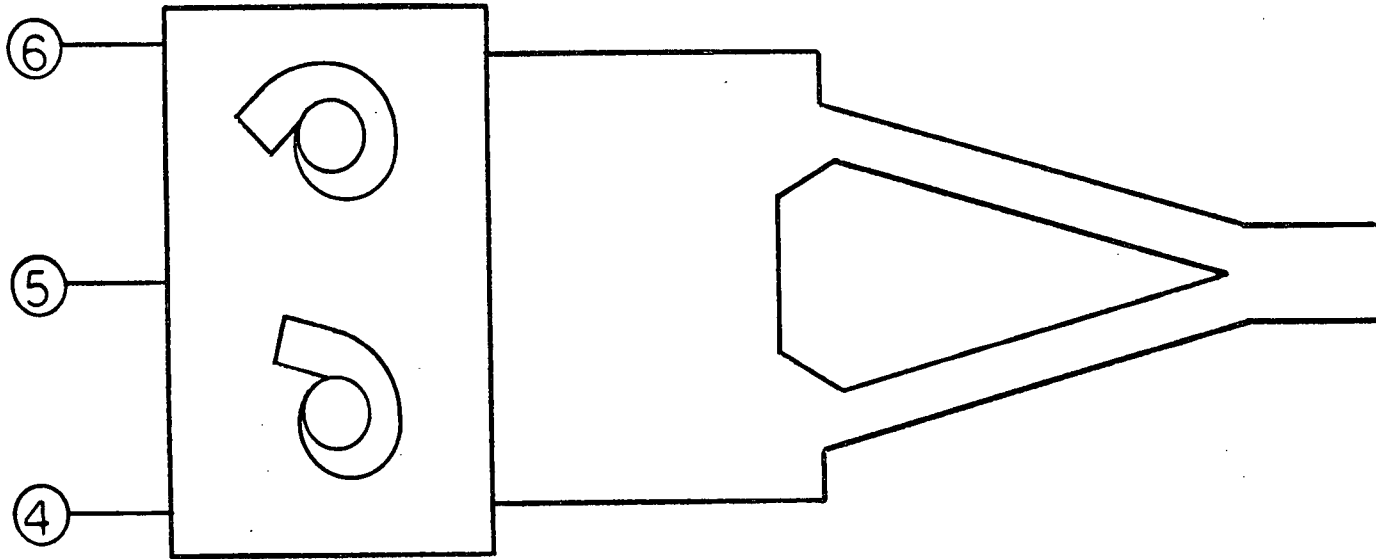
TURBINE AND ADMINISTRATION
BUILDINGS
BASEMENT FLOOR
ELEVATION 586'-0"

REF: TABLE C-10

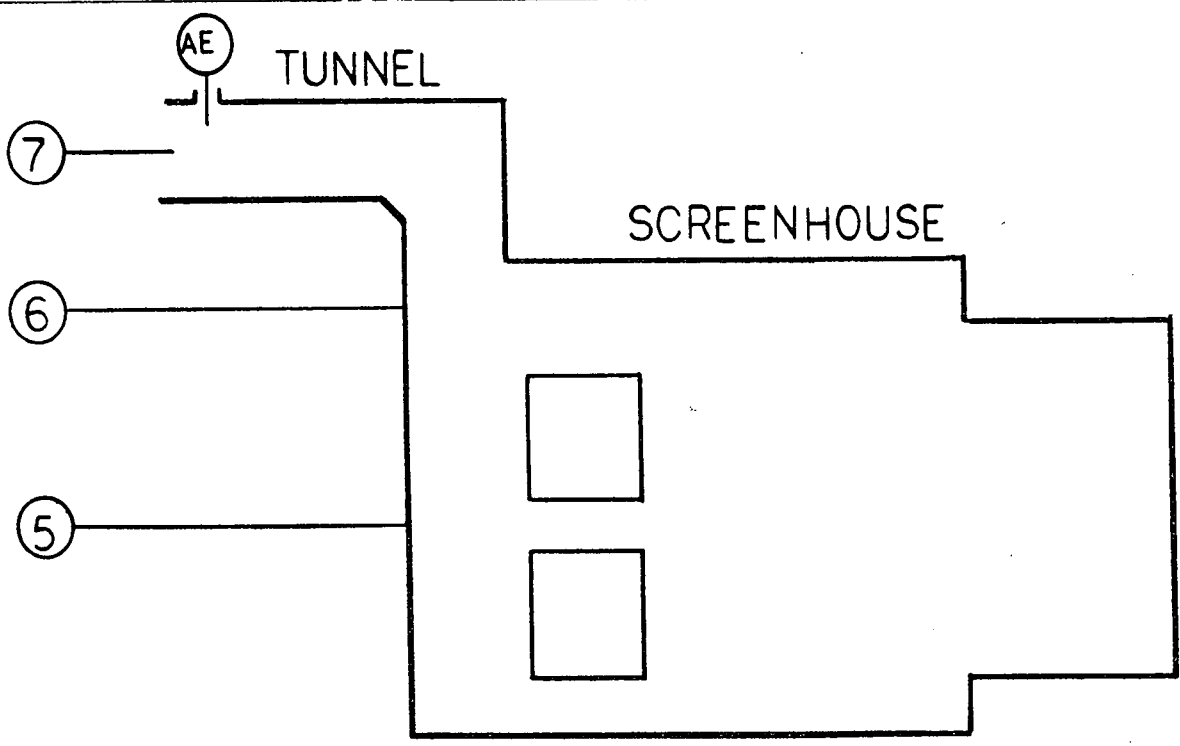
C-19

REV. C
12-19-83

DWG. NO. L 15



ELEVATION 569'-0"



ELEVATION 586'-0"

SCREENHOUSE
BOTH FLOORS

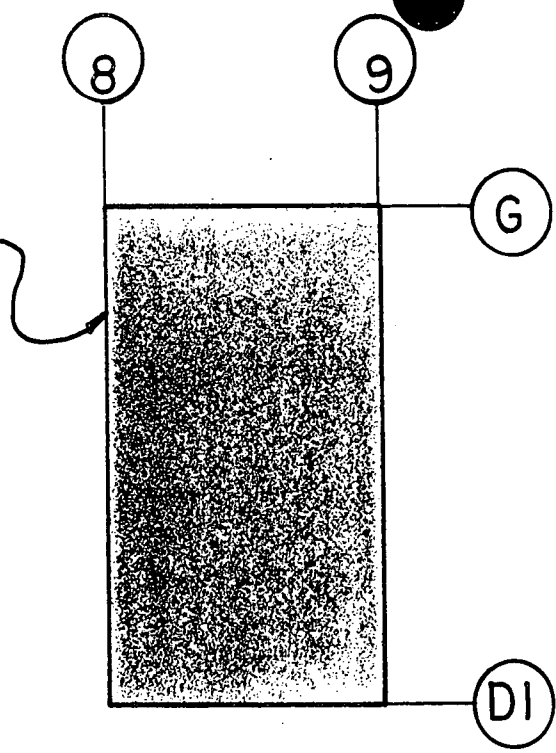
REF: TABLE C-12

REV. 0
12-19-83

DWG. NO. L-16

C-20

BATTERY ROOMS

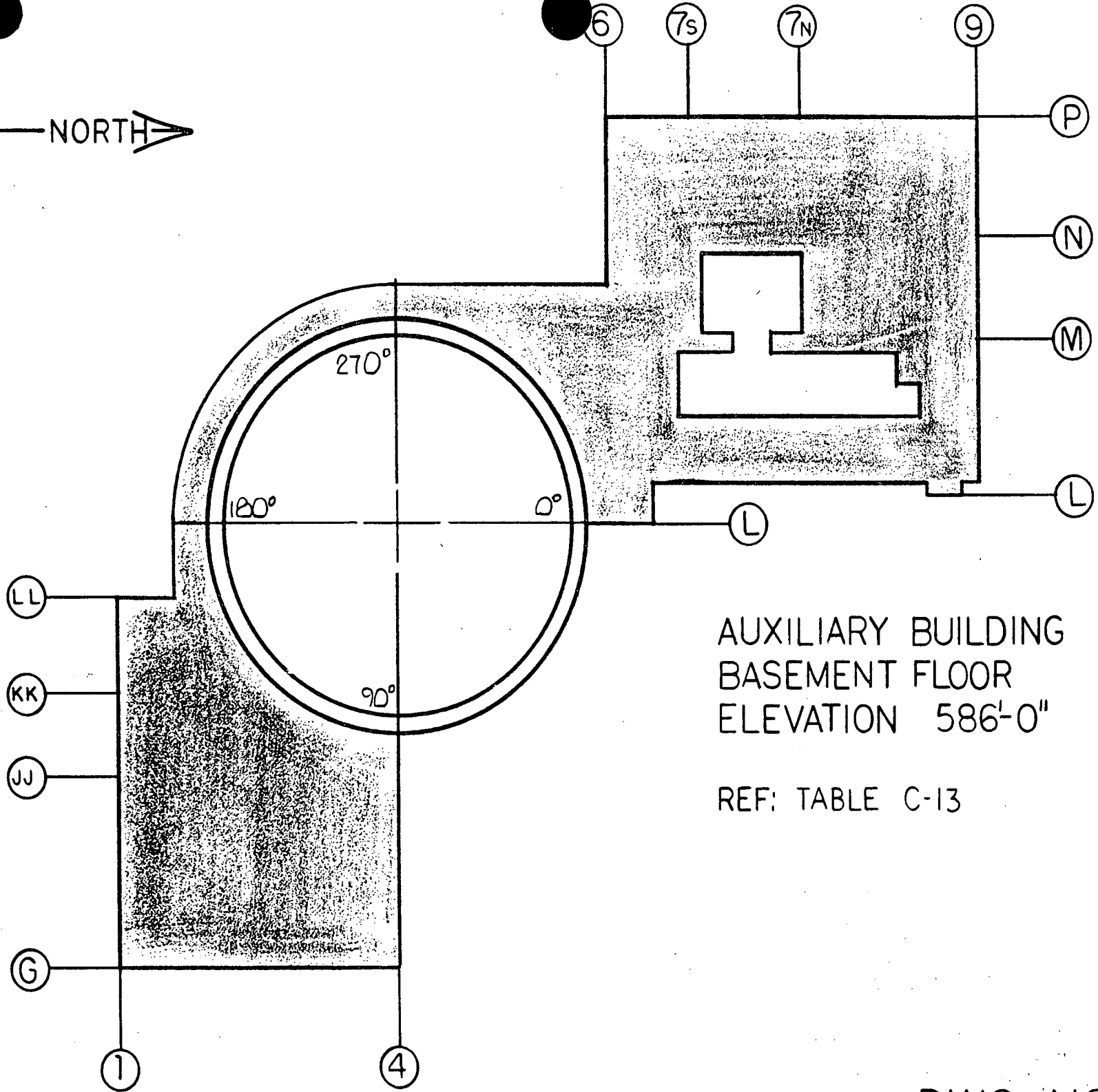


TURBINE AND ADMINISTRATION
BUILDINGS-MEZZANINE FLOOR
ELEVATION 606'-0"
REF: TABLE C-II

C-21

DWG. NO. L-17

REV. 0
12-19-83



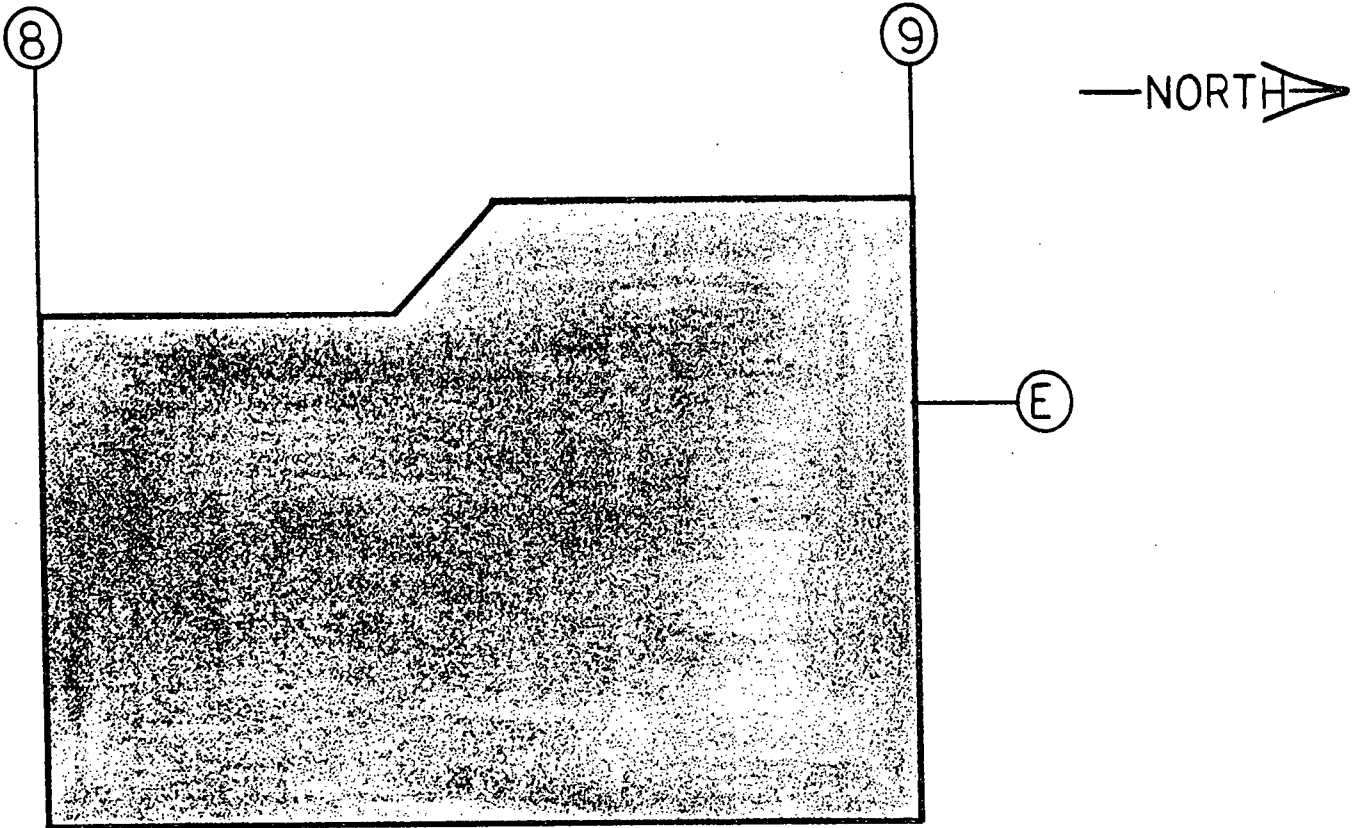
AUXILIARY BUILDING
BASEMENT FLOOR
ELEVATION 586'-0"

REF: TABLE C-13

C-22

REV. 0
12-19-83

DWG. NO. H-1



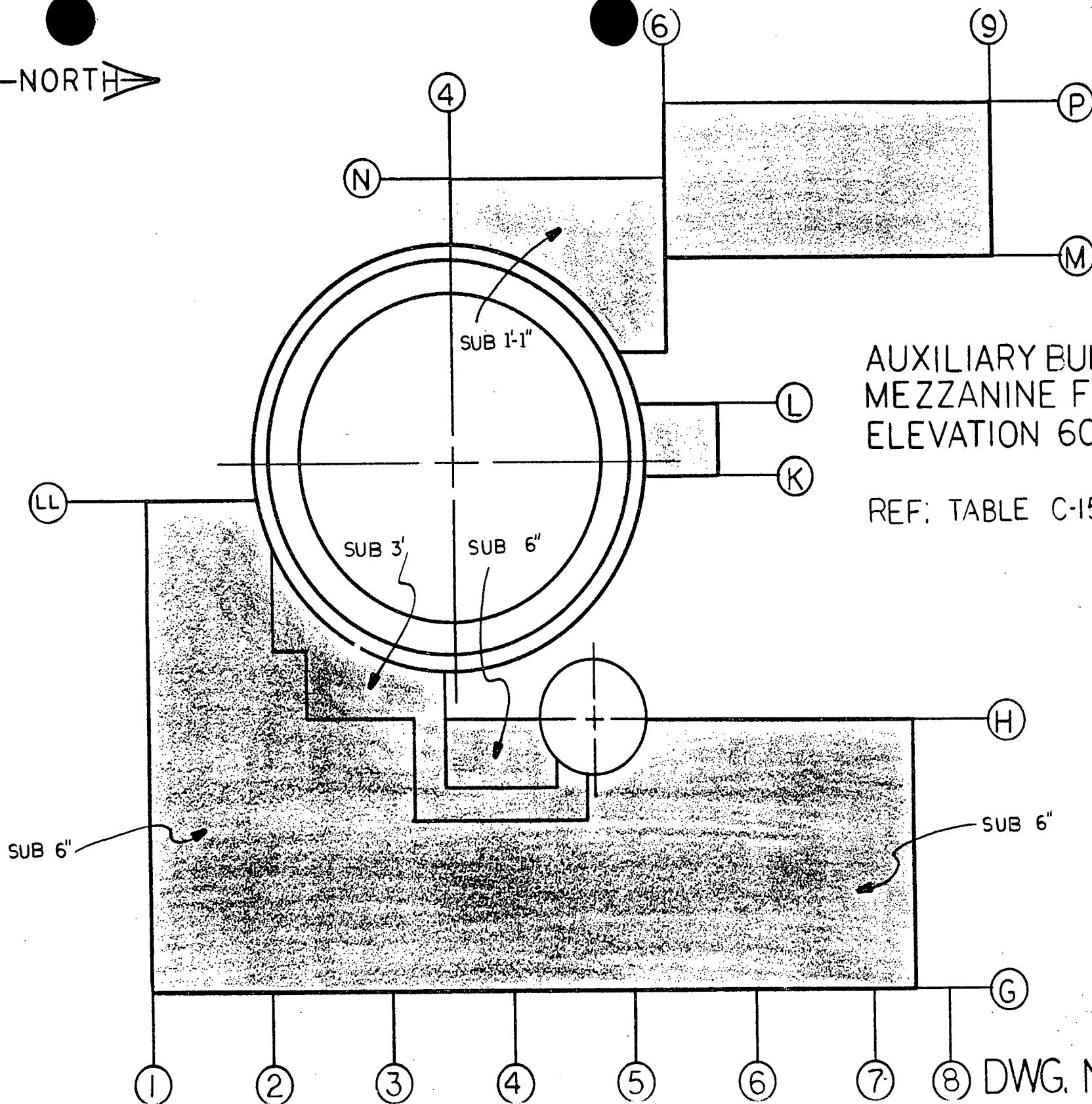
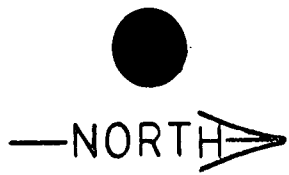
TURBINE BUILDING BASEMENT
ELEVATION 586'-0"
TURBINE DRIVEN AUXILIARY
FEEDWATER PUMP

REF: TABLE C-14

REV. 0
12-19-83

DWG. NO. H-2

C-23



AUXILIARY BUILDING
MEZZANINE FLOOR
ELEVATION 606'-0"

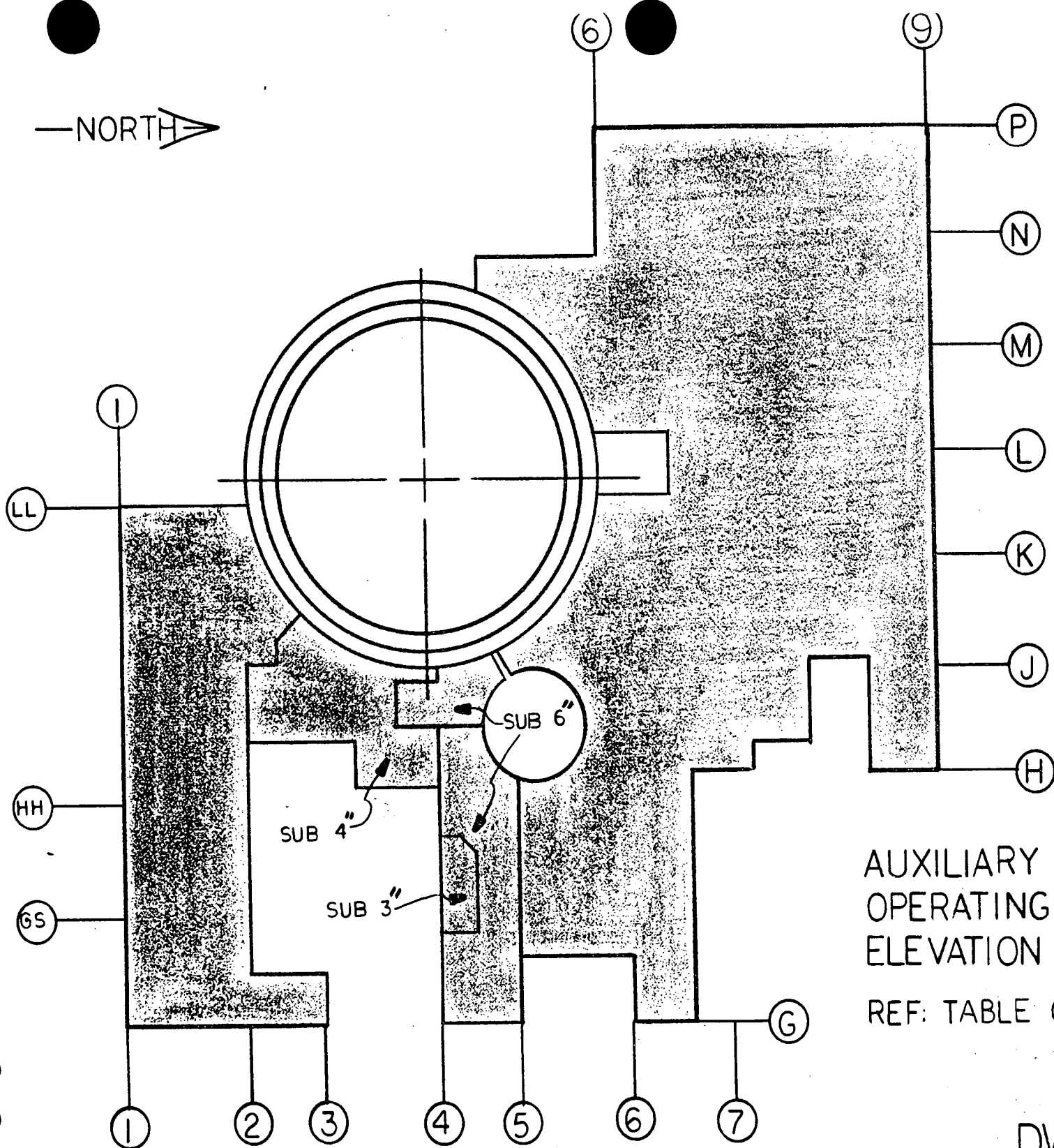
REF: TABLE C-15

C-24

DWG. NO. H-3

REV. 0
12-19-83

NORTH



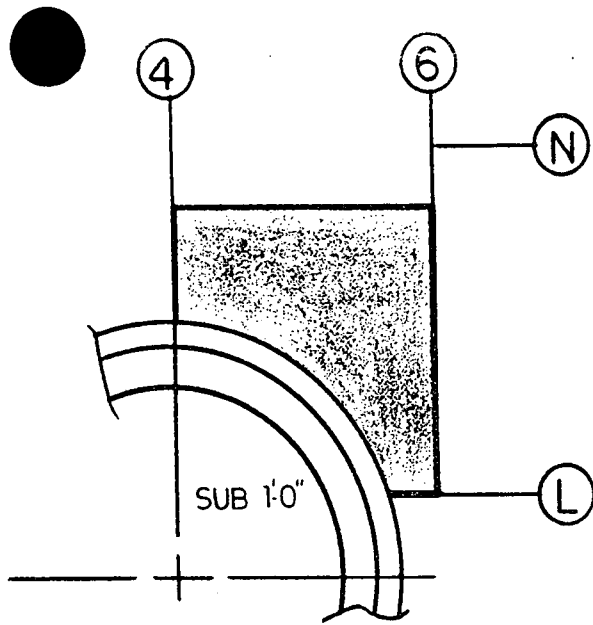
AUXILIARY BUILDING
OPERATING FLOOR
ELEVATION 626'-0"

REF: TABLE C-16

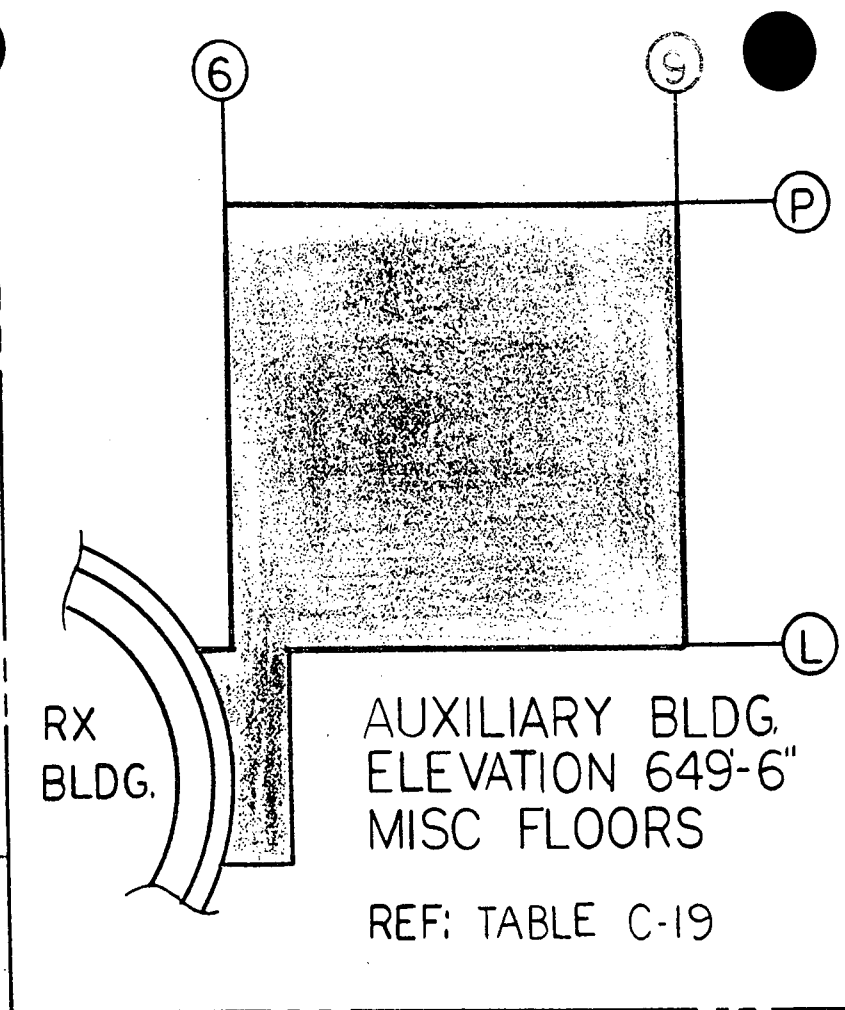
DWG. NO. H-4

C-25

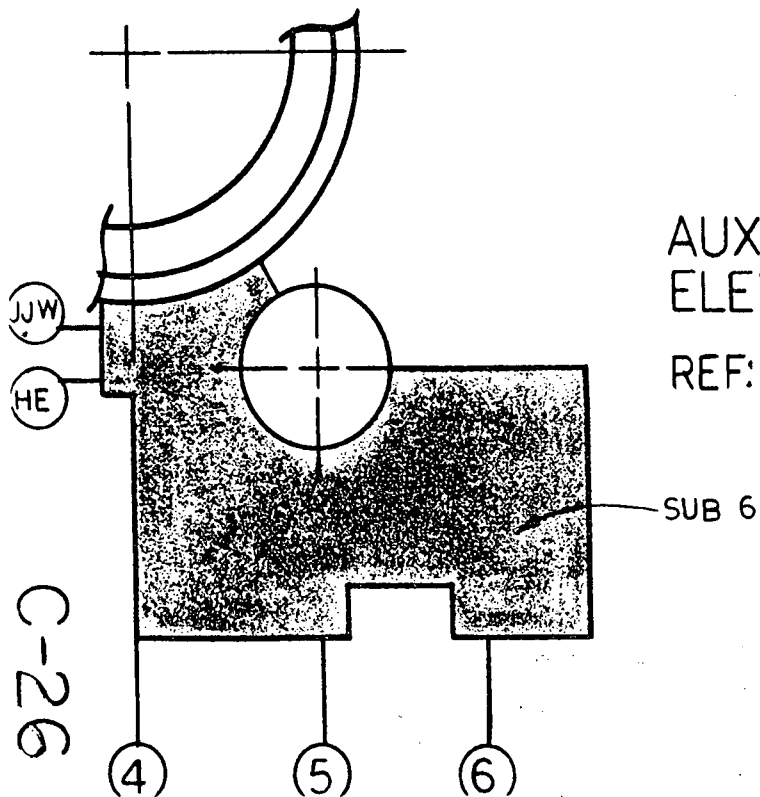
REV. 0
12-19-83



AUXILIARY BUILDING
ELEVATION 618'-0"
REF: TABLE C-18



AUXILIARY BLDG.
ELEVATION 649'-6"
MISC FLOORS
REF: TABLE C-19



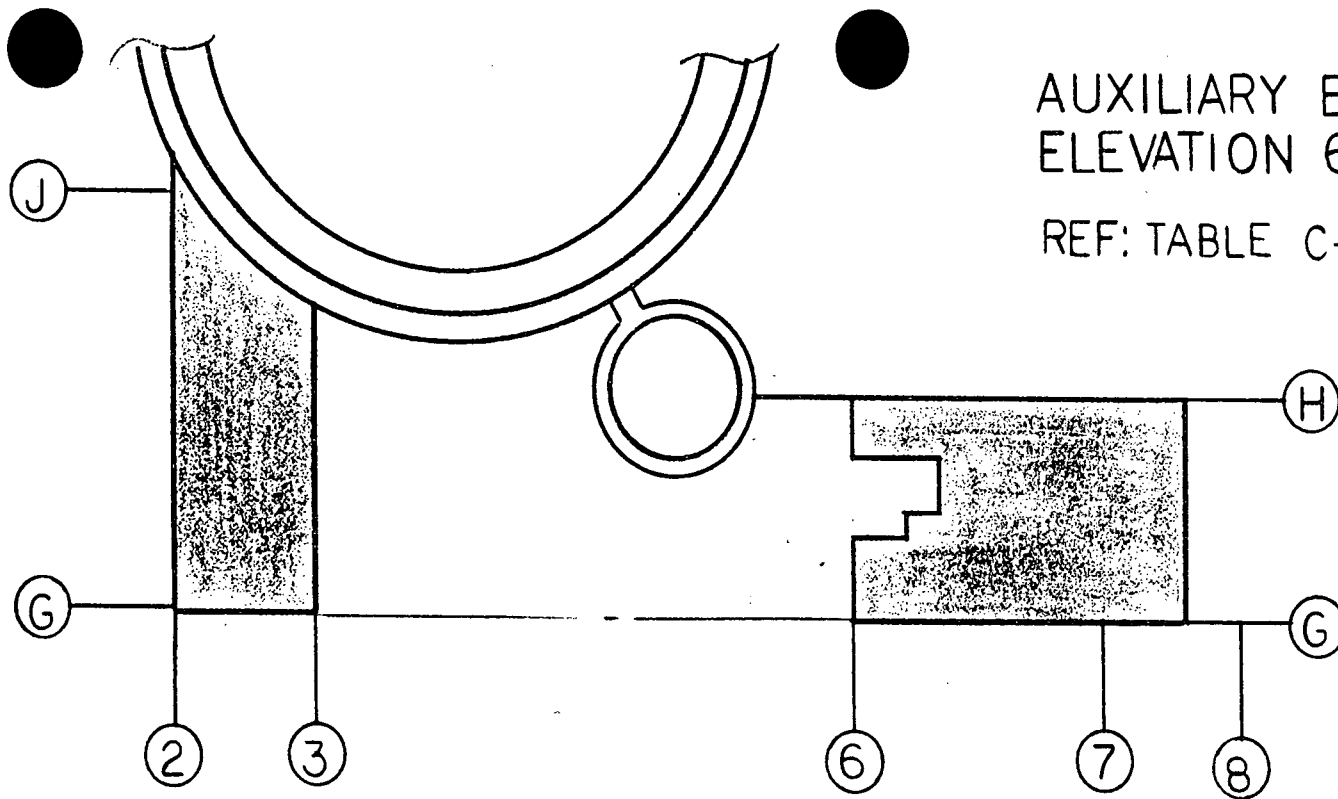
AUXILIARY BLDG
ELEVATION 616'-0"
REF: TABLE C-17

AUXILIARY BUILDING
MISC FLOORS

C-26

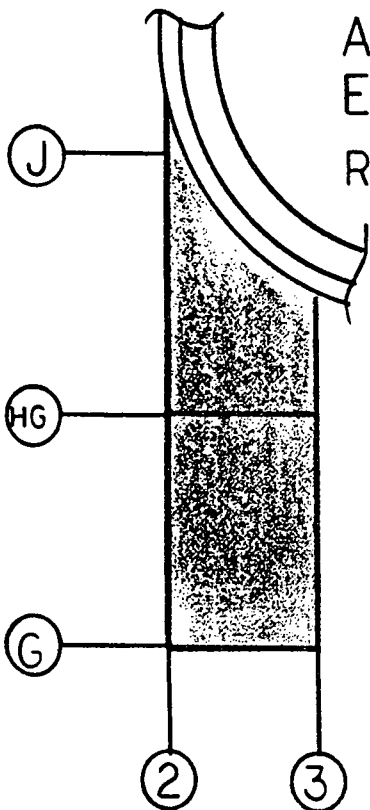
DWG. NO. H-5

REV. 0
12-19-83



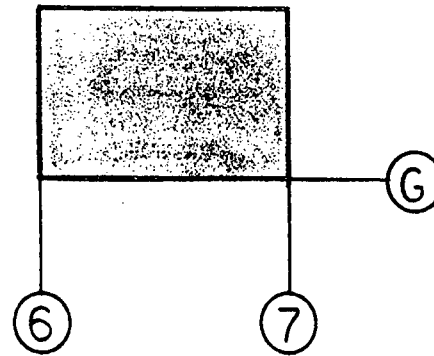
AUXILIARY BUILDING
ELEVATION 642'-3"

REF: TABLE C-20



AUXILIARY BLDG
ELEVATION 657'-6"

REF: TABLE C-21



AUXILIARY BLDG
ELEVATION 675'-0"

REF: TABLE C-22

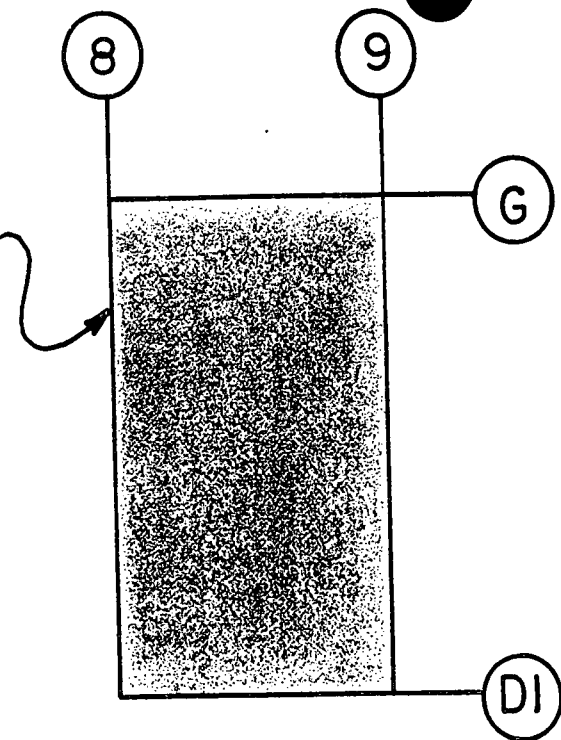
AUXILIARY BLDG.
MISC. FLOORS

C-27

DWG. NO. H-6

REV. 0
12-19-83

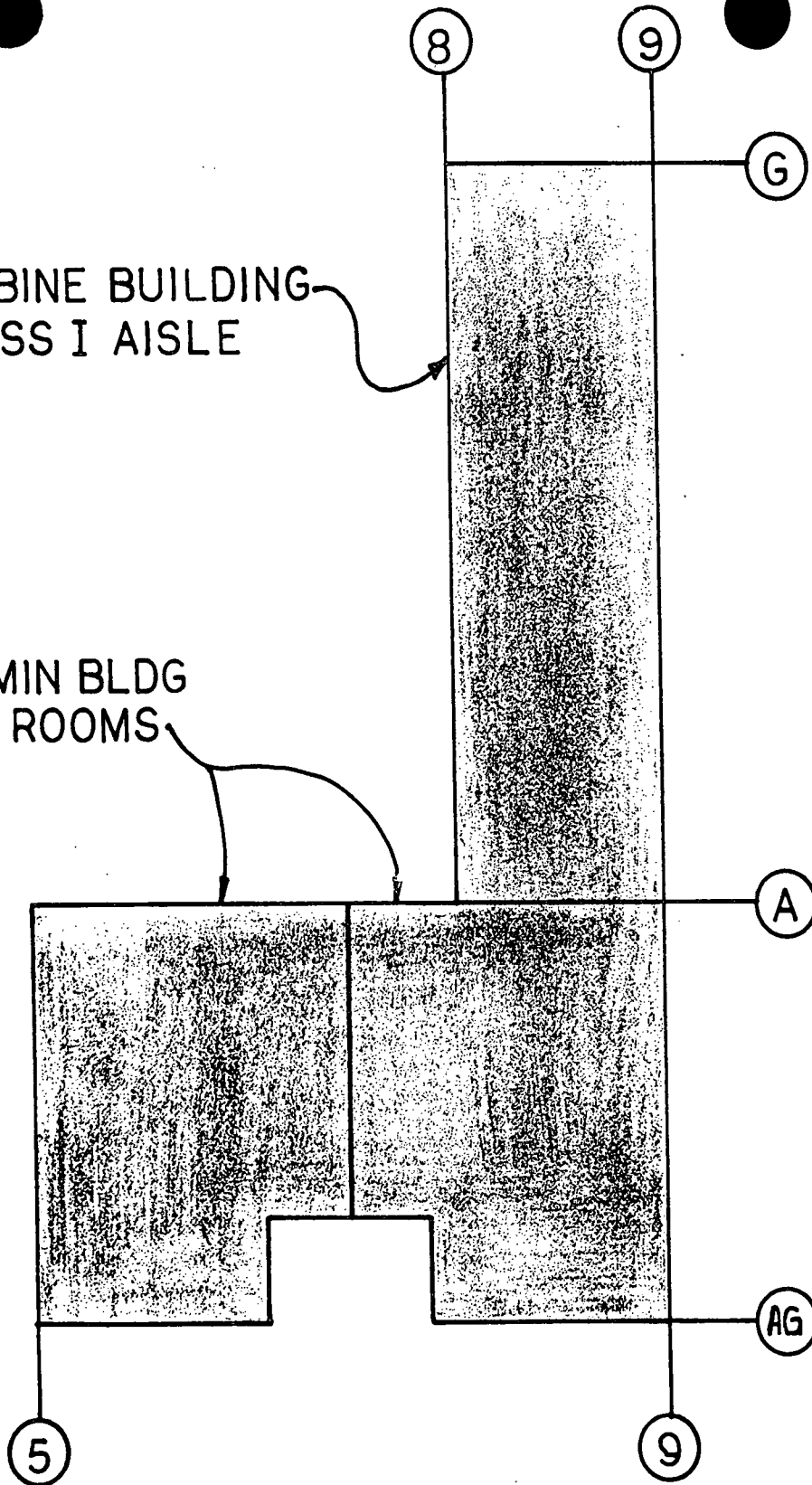
BATTERY ROOMS



TURBINE AND ADMINISTRATION
BUILDINGS-MEZZANINE FLOOR
ELEVATION 606'-0"
REF: TABLE C-II

TURBINE BUILDING
CLASS I AISLE

ADMIN BLDG
D/G ROOMS



TURBINE AND ADMINISTRATION
BUILDINGS
BASEMENT FLOOR
ELEVATION 586'-0"

REF: TABLE C-10

REV. 0
12-19-83

DWG. NO. H-8

NORMAL AND ACCIDENT ENVIRONMENTAL PARAMETERS BY AREAS

<u>Table No.</u>	<u>Description</u>	<u>Page No.</u>
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C-2	Shield Building, all elevations	C-32
C-3	Auxiliary Building, various non-SV Zones	C-33
C-4	Auxiliary Building, SV Zone	C-34
C-5	Auxiliary Building, Control Room & Shift Supervisors Office	C-35
C-6	Auxiliary Building, Relay Room	C-36
C-7	Auxiliary Building, Control Room--HVAC Room	C-37
C-8	Auxiliary Building, RHR Pump Pit	C-38
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C-11	Turbine Building, Class I Aisle	C-41
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C-16	Auxiliary Building, Operating	C-46
C-17	Auxiliary Building, Misc. - Elevation 616'	C-47
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C-20	Auxiliary Building, Misc. - Elevation 642'3"	C-50
C-21	Auxiliary Building, Misc. - Elevation 657'6"	C-51
C-22	Auxiliary Building, Misc. - Elevation 675'	C-52

TABLE C-1

Building Containment Floor All
 Elevation All Drawing Reference L-1 to L-4

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	40-120	Tech Spec 3.6 FSAR 14.3.4	293	1
Pressure, PSIA	13.9-16.7	Tech Spec 3.6	60.7	2, 3
Relative Humidity, %	10-80	As Measured	100	2
<u>Radiation, TID</u>				
RAD, Gamma	1.8E6	168	5E7	2,6,7,8
RAD, Beta	N/A	N/A	2E8	2,6,7,8
<u>Chemical Spray</u>				
PH	N/A	N/A	8.8	4,5,118
Boric Acid, PPM	N/A	N/A	2324	4,5,118
Sodium Hydroxide, WT%	N/A	N/A	0.03	4,5,118
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	600'	9
Harsh (yes, no)	Yes	N/A	Yes	N/A

Harsh - T,P,H,R,CS, possibly S

TABLE C-2

Building Shield Floor ----
 Elevation All Drawing Reference L-1 to L-4

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	FSAR 5.5.1	160	53
Pressure, PSIA	13.7-15.7	53	13.7-15.7	53
Relative Humidity, %	10-80	Assumed	100	53
<u>Radiation, TID</u>			6.5E6 (30 D)	
RAD, Gamma	3.5E4	41	1.2E7 (1 YR)	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H,R

TABLE C-3

Building <u>Auxiliary</u>	Floor <u>Various*</u>		Elevation <u>Various*</u>	
Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	Note 1	37, 39
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	37, 39
Relative Humidity, %	10-80	37, 39	10-80	37, 39
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	Note 2	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	Yes for T-145 &130, No for T=110-120	N/A

Harsh - T (if 140°F or 130°F), R (if Rad levels > 1E5 RAD TID)

Comments: *Drawings show elevation and floors.

Note 1: Area enclosed as shown:

Drawing No. L-8 Temperature = 145°F
 Drawing No. L-9 Temperature = 130°F
 Drawing No. L-10 Temperature = 120°F
 Drawing No. L-11 Temperature = 115°F
 Drawing No. L-12 Temperature = 110°F

Note 2: See individual radiation levels in Reference #41 or Tables V, following.
 See also area maps in Reference #41 or Figures C-1 to C-5.

TABLE C-4

Building Auxiliary Floor _____ SV Zone _____
 Elevation SV Zone Drawing Reference L-5,6,7

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60 - 104	37,38	60 - 104	37,38
Pressure, PSIA	13.7-15.7	37,38	13.7-15.7	37,38
Relative Humidity, %	10 - 80	37,38,43	10 - 80	37,38, 43
<u>Radiation, TID</u>				
RAD, Gamma	*	*	*	*
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	*	N/A	*	N/A

Harsh - No except if Rad levels are > 1E5 RAD TID; if so, then Harsh - R

Comments:

*See individual radiation levels in Reference #41 tables or Tables V,
 following.

See also area maps in Reference #41 or Figures C-1 to C-5.

TABLE C-5

Building Auxiliary Floor Operating*
 Elevation 626' Drawing Reference L-13

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	70-85	40	70-85	40
Pressure, PSIA	13.7-15.7	40	13.7-15.7	40
Relative Humidity, %	10-40	40	10-40	40
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	<1E5	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:

*Control room and shift supervisor's office.

TABLE C-6

Building Auxiliary Floor Mezzanine*
 Elevation 606' Drawing Reference L-13

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	70-85	40	70-85	40
Pressure, PSIA	13.7-15.7	40	13.7-15.7	40
Relative Humidity, %	10-40	40	10-40	40
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	<1E5	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:

*Relay Room.

TABLE C-7

Building AuxiliaryFloor *Elevation 642' 3"Drawing Reference L-13

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	70-85	40	70-85	40
Pressure, PSIA	13.7-15.7	40	13.7-15.7	40
Relative Humidity, %	10-40	40	10-40	40
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	<1E5	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:

*Control Room-HVAC Equipment Room

TABLE C-8

Building Auxiliary Floor Sub-Basement*
 Elevation 568' Drawing Reference L-14

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60-104	37, 38	60-104	37, 38
Pressure, PSIA	13.7-15.7	37, 38	13.7-15.7	37, 38
Relative Humidity, %	10-80	37, 38, 43	10-80	37, 38, 43
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	3E7	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - R

Comments:

*RHR Pump Pits

TABLE C-9

Building Auxiliary Floor Operating*
 Elevation 626' 0" Drawing Reference L-14

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60-104	37,38	60-104	37,38
Pressure, PSIA	13.7-15.7	37,38	13.7-15.7	37,38
Relative Humidity, %	10-80	37,38,43	10-80	37,38,43
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	110	<1E4	110
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:
 *CRDM Equipment Room

TABLE C-10

Building Administration Floor Basement*
 Elevation 586' Drawing Reference L15, H-8

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60-104	44	60-104	44
Pressure, PSIA	13.7-15.7	44	13.7-15.7	44
Relative Humidity, %	10-80	44	10-80	44
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	<1E5	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:

*Diesel Generator Rooms and Class I Aisle

TABLE C-11

Building Turbine Floor *
 Elevation * Drawing Reference L-17, H-7

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60-104	44	60-104	44
Pressure, PSIA	13.7-15.7	44	13.7-15.7	44
Relative Humidity, %	10-80	44	10-80	44
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	41	<1E5	41
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

Comments:

*Turbine Building Battery Rooms

TABLE C-12

Building Screenhouse Floor Both Floors
 Elevation --- Drawing Reference L-16

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	60-120	44	60-120	44
Pressure, PSIA	13.7-15.7	44	13.7-15.7	44
Relative Humidity, %	10-80	44	10-80	44
<u>Radiation, TID</u>				
RAD, Gamma	<1E5	119	<1E5	119
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	No	N/A

TABLE C-13

Building Auxiliary Floor Basement
 Elevation 586' Drawing Reference H-1

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37,39	234	171
Pressure, PSIA	13.7-15.7	37,39	13.7-15.7	171
Relative Humidity, %	10-80	37,39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	*	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T, H, possibly S

Comments:

*Submergence depth is 5" throughout shaded area shown on Drawing (H-1) with exception of shaded area from 180°-270° where depth is 3'5".

TABLE C-14

Building Turbine Floor Basement*
 Elevation 586' Drawing Reference H-2

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	234	171
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	171
Relative Humidity, %	10-80	37, 39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	N/A	N/A
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H

Comments:

*Turbine Driven Auxiliary Feedwater Pump

TABLE C-15

Building Auxiliary Floor Mezzanine
 Elevation 606' Drawing Reference H-3

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37,39	234	171
Pressure, PSIA	13.7-15.7	37,39	13.7-15.7	171
Relative Humidity, %	10-80	37,39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	Yes*	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H, possible S

Comments:

*See submergence depth on drawing H-3.

TABLE C-16

Building Auxiliary Floor Operating
 Elevation 626' Drawing Reference H-4

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	234	171
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	171
Relative Humidity, %	10-80	37, 39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	yes*	N/A
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H, possibly S.

Comments:

*See submergence depth on drawing.

TABLE C-17

Building Auxiliary Floor Misc.
 Elevation 616' Drawing Reference H-5

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	234	171
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	171
Relative Humidity, %	10-80	37, 39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	6"	N/A
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H, possibly S.

TABLE C-18

Building AuxiliaryFloor Misc.Elevation 618'Drawing Reference H-5

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37,39	298	171
Pressure, PSIA	13.7-15.7	37,39	13.7-15.7	171
Relative Humidity, %	10-80	37,39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	1'	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H, possible S.

TABLE C-19

Building Auxiliary Floor Misc.
 Elevation 649' 6" Drawing Reference H-5

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37,39	234	171
Pressure, PSIA	13.7-15.7	37,39	13.7-15.7	171
Relative Humidity, %	10-80	37,39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	No	171
Harsh (yes, no)	No	N/A	N/A	N/A

Harsh - T,H

TABLE C-20

Building Auxiliary Floor Misc.
 Elevation 642' 3" Drawing Reference H-6

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	234	171
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	171
Relative Humidity, %	10-80	37, 39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	No	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H

TABLE C-21

Building Auxiliary Floor Misc.
 Elevation 657' 6" Drawing Reference H-6

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37, 39	234	171
Pressure, PSIA	13.7-15.7	37, 39	13.7-15.7	171
Relative Humidity, %	10-80	37, 39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	No	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H

TABLE C-22

Building Auxiliary Floor Misc.
 Elevation 675' Drawing Reference H-6

Parameter, Units	Normal	Reference	Accident	Ref.
Temperature, °F	120	37,39	234	171
Pressure, PSIA	13.7-15.7	37,39	13.7-15.7	171
Relative Humidity, %	10-80	37,39	100	171
<u>Radiation, TID</u>				
RAD, Gamma	<1E4	41	<1E4	171
RAD, Beta	N/A	N/A	N/A	N/A
<u>Chemical Spray</u>				
PH	N/A	N/A	N/A	N/A
Boric Acid, PPM	N/A	N/A	N/A	N/A
Sodium Hydroxide, WT%	N/A	N/A	N/A	N/A
<u>Submergence</u>				
Elevation, ft.	N/A	N/A	No	171
Harsh (yes, no)	No	N/A	Yes	N/A

Harsh - T,H

TABLE C-23OPERATIONAL TIMES, BY SYSTEM

<u>SYSTEM</u>	<u>TIME</u>
Aux Bldg Special Vent	1 year
Aux Bldg Vent	1 year
Aux Feedwater	30 days
Blowdown Treatment	30 days
Component Cooling, to RHR only	1 year
Component Cooling, all other services	30 days
Control Room HVAC	1 year
CVCS, seal water leakoff	24 hours
CVCS, all else	30 days
D. C. Power	1 year
Diesel Generators	1 year
Feedwater	30 days
H ₂ Vent, POST-LOCA	120 days
ICS, caustic	2 hours
ICS, disch valves	24 hours
ICS, all else	30 days
Main Feedwater, reg. & bypass valves	30 days
Main Steam, MSIV's	30 minutes
Main Steam, Press & Flow Xmtrs	2 hours
Main Steam, all else	30 days
RBV, pressure indication	120 days
RBV, all else	30 days
RCS, PSZR level, Gas sample, PRT makeup	30 minutes

SYSTEMTIME

RCS, RTDs, Press Xmtrs, Ctmt Isol, N ₂ Supply	30 days
RHR, Press & Level Xmtrs, SI-X-conn	30 days
RHR, RB sump indication	4 hours
RHR, pumps and all else	1 year
SBV	1 year
SI, Accum N ₂ supply	30 minutes
SI, CTMT ISOL & RHR pump suction	1 year
SI, all else	30 days
Secondary Sampling	30 days
Service Water	1 year
TBV	1 year
Waste Disposal, Liquid	30 days
4160 and 480 Vac Supply	1 year

RADIATION LEVELS BY AREA AND EQUIPMENT SPECIFIC

NOTES ON USE:

1. This appendix is excerpted from Reference 41. Dose rate data and the basis are available in Reference 41.
2. FOR EXISTING EQUIPMENT: To determine the normal and accident radiation doses for an existing **safety-related electrical component**, turn to the correct System's Table listed below and look up its Plant ID Number. The equipment within each system is not listed in any logical order. Information under the "Qualified" column is not accurate.
3. FOR NEW EQUIPMENT: To determine the normal and accident radiation doses for a new piece of equipment, turn to the correct area drawing at the end of this appendix. Locate the closest existing component and follow the instructions above. If the closest existing component is greater than five feet away, it may be necessary to contract additional analysis by FPS.

	<u>Equipment Qualification List:</u>	<u>System</u>	<u>Page</u>
<u>Table V-A</u>	Reactor Coolant System	36	C-57
<u>Table V-B</u>	Residual Heat Removal and Component Cooling System	34,31	C-58
<u>Table V-C</u>	Safety Injection System	33	C-60
<u>Table V-D</u>	Chemical and Volume Control System	35	C-62
<u>Table V-E</u>	Primary Sampling System	37	C-66
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<u>Table V-H</u>	Main Steam and Steam Dump System	06	C-73
<u>Table V-I</u>	Feedwater and Auxiliary Feedwater System	05	C-78
<u>Table V-J</u>	Station and Instrument Air System	01	C-81
<u>Table V-K</u>	Containment Spray System	23	C-82
<u>Table V-L</u>	Secondary Sampling System	29	C-84
<u>Table V-M</u>	Diesel Generator, Mechanical System	10	C-85

	<u>Equipment Qualification List:</u>	<u>System</u>	<u>Page</u>
<u>Table V-N</u>	Misc. Drains & Sumps System	30	C-86
<u>Table V-O</u>	Reactor Bldg. Vent (Post LOCA H ₂ Control) System	18	C-87
<u>Table V-P</u>	Turbine Bldg., Screenhouse & Auxiliary Bldg. Ventilation System	15,16,17	C-89
<u>Table V-Q</u>	Reactor & Shield Bldg. Vent System	18,24	C-95
<u>Table V-R</u>	Control Room Air Conditioning (Air Side) System	25	C-102
<u>Table V-S</u>	Aux. Bldg. Zone SV Vent & Aux. Bldg. Air Cond. System	14	C-104
<u>Table V-T</u>	Service Water (Piping to Fan Coil Units) & Control Room Air Conditioning (Water Side) System	02,25	C-106
<u>Table V-U</u>	Misc. Electrical Equipment/Components System	38,39,40	C-111

Area Maps

Fig. No.

C-1	Reactor and Auxiliary Bldg. Basement Floor, El. 586'	C-119
C-2	Reactor and Auxiliary Bldg. Mezzanine Floor, El. 606'	C-120
C-3	Reactor and Auxiliary Bldg. Room 243, El. 622'3"	C-121
C-4	Reactor and Auxiliary Bldg. Operating Floor, El. 626'	C-122
C-5	Reactor and Auxiliary Bldg. Misc. Floors, El. 642'3" and 657'6"	C-123

TABLE V-A
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR COOLANT/K100-10

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS	
			TOTAL INTEGRATED DOSE (RADS)			TOTAL		QUALIFIED
			40 YR NORMAL	ACCIDENT (DURATION)				
33093	GAS ANAL SAMPLE CNMT ISOL CV SV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31259	
33137	GAS ANAL SAMPLE CNMT ISOL CV SV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31260	
33171	H ₂ SUPPLY CNMT ISOL CV SV	AUX BLDG/617'	3.5×10^3	1.4×10^3 (30 Days)	$< 1 \times 10^4$		FOR 31298	
33170	MAKEUP WTR CNMT ISOL CV SV	AUX BLDG/607'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31261	
31259 31260 31261	CONTAINMENT ISO- LATION VALVES CV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5			
31298	CONTAINMENT ISO- LATION VALVE CV	AUX BLDG/617'	3.5×10^3	1.4×10^3 (30 Days)	$< 1 \times 10^4$			

TABLE V-B
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - RESIDUAL HEAT REMOVAL AND COMPONENT COOLING/K100-18 19 20

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS) ACCIDENT (DURATION)		TOTAL	
31114	RHR EXCHR 1A OUTL CV	TURB BLDG/606'	3.5×10^5	5×10^6	(1 Yr)	5.4×10^6	
31115	RHR EXCHR 1B OUTL CV	AUX BLDG/606'	3.5×10^5	5×10^6	(1 Yr)	5.4×10^6	
32082	EXH LTDW HT EXCHR COMP COOLING RET WTR MV	AUX BLDG/617'	3.5×10^4	3×10^7	(1 Yr)	3×10^7	2×10^8
32083	COMP COOLING SRG TNK EMERG MAKEUP MV	AUX BLDG/627'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
32084 32085 32086	REAC COOLANT PMP 1A, 1B CLG WTR SUP AND RET MV	AUX BLDG/613'	3.5×10^4	3×10^7	(1 Yr)	3×10^7	2×10^8
32087	REAC COOLANT PMP 1B CLG WTR RET MV	AUX BLDG/613'	3.5×10^4	3×10^7	(1 Yr)	3×10^7	2×10^8
32088	REAC COOLANT PMP CLG WTR SPLY HDR MV	AUX BLDG/625'	3.5×10^4	3×10^7	(1 Yr)	3×10^7	
1-025 1-032	RHR 1A AND 1B PUMP AND MTR	AUX BLDG/586'	3.5×10^4	3×10^7	(1 Yr)	3×10^7	1.4×10^8
32119 32120	COMP COOLING WTR TO RESID HT EXCH 1A & 1B MV	AUX BLDG/625'	3.5×10^5	5.0×10^6	(1 Yr)	5.4×10^6	2×10^8
32121 32122	COMP COOLING HT EXCH 1A & 1B OUT MV	AUX BLDG/613'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
1-021 1-028	COMP COOLING PMP AND MTR 1A & 1B	AUX BLDG/613'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	

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TABLE V-B
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - RESIDUAL HEAT REMOVAL AND COMPONENT COOLING/K100-18, 19, 20

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS) ACCIDENT (DURATION)		TOTAL	
31121	COMP CLG SRG TANK VENT CV	AUX BLDG/670'	1×10^4	3.2×10^6	(1 Yr)	3.2×10^6	
21084 21085	RHR PUMP 1A & 1B DISCH FXMTR	AUX BLDG/591'	3.5×10^4	1.6×10^7	(30 Days)	1.6×10^7	2×10^8
15121	RHR EXCHR 1A & 1B OUTLET RTD	AUX BLDG/606'	3.5×10^4	2.9×10^7	(1 Yr)	2.9×10^7	
15122	RHR PMPS SUCT RTD	AUX BLDG/606'	3.5×10^4	2.9×10^7	(1 Yr)	2.9×10^7	
23030	RHR PMP OUTL FXMTR	AUX BLDG/586'	3.5×10^4	2.9×10^7	(1 Yr)	2.9×10^7	
23057	COMP CLG TOTAL FLOW FXMTR	AUX PLDG/611'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
24041	COMP CLG SRG TNK LXMTR	AUX BLDG/665'	1×10^4	5.6×10^4	(1 Yr)	6.6×10^4	
15092	REAC CLNT PMP 1A CLG WTR RTRN RTD	AUX BLDG/613	3.5×10^4	2.9×10^7	(1 Yr)	2.9×10^7	
15093	REAC CLNT PMP 1B CLG WTR RTRN RTD	AUX BLDG/613	3.5×10^4	2.9×10^7	(1 Yr)	2.9×10^7	
29001	COMP CLNG LIQ RAD MNTR R17RE	AUX BLDG/618'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
12090	COMP CLNG HT EXGRS 1A/1B OUTLET TI	AUX BLDG/611'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	

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TABLE V-C
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SAFETY INJECTION/K100-28 29

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)				
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
31253	ACCUMULATOR 1A/1B N2 SUPPLY ISOL VLV CV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
1-020 1-027	SI PMP AND MTR 1A & 1B	AUX BLDG/586'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6	1.4×10^8	
33192	ACCUMULATOR 1A/1B N2 SUPPLY ISOL VLV SV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31253
32094	SI COLD LEG ISOL MV	AUX BLDG/608'	3.5×10^4	1.6×10^7 (30 Days)	1.6×10^7	2×10^8	
32095	PRSZR PWR RLF ISOL MV	AUX BLDG/608'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	2×10^8	
32102 32103 32113 32114	CNTMT SUMP B ISOL MV 1A, 1B, 1C & 1D	AUX BLDG/586'	3.5×10^4	3×10^7 (1 Yr)	3×10^7	2×10^8	
32111 32112	RHR PMP SUCT ISOL MV 1A & 1B	AUX BLDG/589'	3.5×10^4	1.6×10^7 (30 Days)	1.6×10^7	2×10^8	
32104 32105	BORIC ACID TNKS OUTLET ISOL MV 1A & 1B	AUX BLDG/589'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6	2×10^8	
32106	BORIC ACID SPLY TO SFTY INJ PMP SUCT MV	AUX BLDG/589'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6	2×10^8	
32107 32108	SFTY INJ PMP 1A & 1B SUCT ISOL MV	AUX BLDG/585'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6	2×10^8	

TABLE V-C
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SAFETY INJECTION/K100-28 29

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
32109 32110	RFLG WTR STRG TNK TO SFTY INJ PMPS MV 1A & 1B	AUX BLDG/588'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
32130 32131	RFG WTR STRG TNK TEST INLET STOP MV 1A & 1B	AUX BLDG/589'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
32134	RSDL HX OUTL TO SFTY INJ PMP 1A MV	AUX BLDG/597'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
32135	RSDL HX OUTL TO SFTY INJ PMP 1B MV	AUX BLDG/597'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
21090	SFTY INJ PMP 1A DSCH P XMTR	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
21091	SFTY INJ PMP 1B DSCH P XMTR	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
23054	SFTY INJ PMP 1A DSCH F XMTR	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
23055	SFTY INJ PMP 1B DSCH F XMTR	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
23056	LOW HD SIS TO REAC VSL F XMTR	AUX BLDG/611'	3.5 x 10 ⁴	1.6 x 10 ⁷ (30 Days)	1.6 x 10 ⁷		
24040 24062	RFLG WTR STRG TNK L XMTR	AUX BLDG/591'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	1.4 x 10 ⁸	

TABLE V-D
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CHEMICAL AND VOLUME CONTROL/X-K100-35 36 38

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
31103	CHG LN TO REGEN HT EXCHR CV	AUX BLDG/586'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6		
31234	LTDN FLOW TO LTDN HT EXCHR ISOL CV	AUX BLDG/606'	3.5×10^4	1.6×10^7 (30 Days)	1.6×10^7		
32057	VOL CONT TNK OUTLET STOP MV	AUX BLDG/606'	1.8×10^8	1.1×10^8 (30 Days)	2.9×10^8		
33193	LTDN FLOW TO LTDN HT EXCHR ISOL SV	AUX BLDG/606'	3.5×10^4	1.6×10^7 (30 Days)	1.6×10^7	FOR 31234	
31099	LP LTDN PRESS PCV	AUX BLDG/606'-0"	3.5×10^5	2.8×10^6 (30 Days)	3.2×10^6		
15057	VOL CONT TNK OUTL RTD	AUX BLDG/606'-0"	1.8×10^8	1.1×10^8 (30 Days)	2.9×10^8		
15118 15119	LTDN HT EXCHR OUTL RTD	AUX BLDG/606'-0"	3.5×10^5	2.8×10^6 (30 Days)	3.2×10^6		
21075	LOW PRESS LETDOWN P XMTR	AUX BLDG/606'-0"	3.5×10^5	2.8×10^6 (30 Days)	3.2×10^6		
23021	LTDN HT EXGR OUTL F XMTR	AUX BLDG/606'-0"	3.5×10^5	2.8×10^6 (30 Days)	3.2×10^6		
23022	CHG PMP DISCH TO REGEN HX F XMTR	AUX BLDG/591'-0"	1×10^4	5.6×10^6 (30 Days)	5.6×10^6		
31100	LTDN HT EXGR COMP CLG WTR OUTL CV	AUX BLDG/620'	3.5×10^5	2.8×10^6 (30 Days)	3.2×10^6		

TABLE V-D
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CHEMICAL AND VOLUME CONTROL/X-K100-35 36 38.

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS) ACCIDENT (DURATION)		TOTAL	
24015	VOL CONT TNK LVL XMTR	AUX BLDG/616'-0"	1.8×10^8	1.1×10^8	(30 Days)	2.9×10^8	
24016	VOL CONT TNK LVL XMTR	AUX BLDG/606'-0"	1.8×10^8	1.1×10^8	(30 Days)	2.9×10^8	
1-067 1-106 1-133	CHARGING PMP A, B, & C	AUX BLDG/586'	1×10^4	5.6×10^6	(30 Days)	5.6×10^6	
32115	SEAL WATER LEAKOFF ISOL MV	AUX BLDG/616'	3.5×10^4	1.6×10^7	(30 Days)	1.6×10^7	2×10^8
21076	VOL CONT TNK RLF LINE P XMTR	AUX BLDG/611'	1.8×10^8	1.1×10^8	(30 Days)	2.9×10^8	
24023	BRC ACD TNK 1A L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24024	BRC ACD TNK 1A L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24025	BRC ACD TNK 1A L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24026	BRC ACD TNK 1B L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24027	BRC ACD TNK 1B L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24028	BRC ACD TNK 1B L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24038	BRC ACD TNK 1A L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	
24039	BRC ACD TNK 1B L XMTR	AUX BLDG/638'	2×10^4	3.3×10^5	(30 Days)	3.5×10^5	

TABLE V-D
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CHEMICAL AND VOLUME CONTROL/X-K100-35 36 38

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	
33105	VOLUME CONTROL TANK VENT ISOL SV	AUX BLDG/609'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	
32056	RFLG WTR EMERG MKUP TO CHG PUMPS MV	AUX BLDG/590'	1×10^4	5.6×10^6 (30 Days)	5.6×10^6	
33102	N ₂ TO VOL CONTROL TANK CV	AUX BLDG/608'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$	

SUBMERGED COMPONENTS IN CONTAINMENT

EQUIPMENT I.D. NUMBER	NAME/TYPE	TID (DUE TO SUBMERSION IN AIR), RADS			TID (DUE TO SUBMERSION IN LIQUID), RADS		
		40 YR NORMAL	ACCIDENT (1 YR)	TOTAL	40 YR NORMAL	ACCIDENT (1 YR)	TOTAL
31231	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.CV 1A	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7
31232	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.CV 1B	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7
31233	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.CV 1C	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7
33199	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.SV 1A	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7
33200	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.SV 1B	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7
33201	REG.HT.EXGR.OUTL.LTDN. ORIF.STP.SV 1C	6.0×10^5	5.2×10^7	5.3×10^7	6.0×10^5	3.4×10^7	3.5×10^7

TABLE V-E
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - PRIMARY SAMPLING /XK-100-44

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
31267	PRZR STM SMPL STP CV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
31268	PRZR LIQ SMPL STP CV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
33325	PRZR STM SMPL STP CV SV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31267
33326	PRZR LIQ SMPL STP CV SV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31268
33327	HOT LEG SAMPLING STOP SV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		

TABLE V-F
EQUIPMENT OUTSIDE THE CONTAINMENT
REQUIRED TO FUNCTION POST ACCIDENT

SYSTEMS/FLOW DIAGRAM - WASTE DISPOSAL/XK100-131, 132

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		TOTAL	
31132	REAC CLNT DRN TNK VENT CV 1A	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31133	REAC CLNT DRN TNK VENT CV 1B	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31134	REAC CLNT DRN TNK DSCH HDR 1A	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31135	REAC CLNT CRN TNK DSCH HDR 1B	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31136	CONTMT SUMP PMPs DRN HDR ISOL CV 1A	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31137	CONTMT SUMP PUMPS DRN HDR ISOL CV 1B	AUX BLDG/608'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31216	REAC CLNT DRN TNK TO GAS ANZR CV 1A	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
31217	REAC CLNT DRN TNK TO GAS ANZR CV 1B	AUX BLDG/606'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	
33024	REAC CLNT DRN TNK VENT SV 1A	AUX BLDG/608'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	FOR 31132
33072	REAC CLNT DRN TNK VENT SV 1B	AUX BLDG/608'	1×10^4	1.1×10^5	(30 Days)	1.2×10^5	FOR 31133

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TABLE V-F
EQUIPMENT OUTSIDE THE CONTAINMENT
REQUIRED TO FUNCTION POST ACCIDENT

SYSTEMS/FLOW DIAGRAM - WASTE DISPOSAL/XK100-131 132

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
33120	REAC CLNT DRN PMPS DSCH HDR SV 1A	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31134
33143	REAC CLNT DRN PMPS DSCH HDR SV 1B	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31135
33145	CONTMT SUMP PMPS DRN HDR ISOL SV 1A	AUX BLDG/608'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31136
33244	REAC CLNT DRN TNK TO GAS ANZR SV 1A	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31216
33245	REAC CLNT DRN TNK TO GAS ANZR SV 1B	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31217
33146	CONTMT SUMP PMPS DRN HDR ISOL SV 1B	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31137

TABLE V-G
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (MAINS)/M202

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	
11021 11022	SRVC WTR STRNR 1A1 & 1A2 DIFF DPI/DPS	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
11085 11086	SRVC WTR STRNR 1B1 & 1B2 DIFF DPI/DPS	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
16003 16004 16005	SRVC WTR HDR ALARM/ CONT PS	IN ACCESS TUNNEL TO SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
16419 16420 16421 16422	SRVC WTR STRNR 1A1, 1B1, 1B2 DPS	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
21005 21006	SRVC WTR HDR 1A & 1B P XMTR	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
23061 23062 23063 23064	CLG WTR TO AND FROM FAN COIL UNIT 1A & 1B F XMTR	AUX BLDG/586'	1 x 10 ⁴	1.1 x 10 ⁷ (1 Yr)	1.1 x 10 ⁷	
23065 23066 23067 23068	CLG WTR TO AND FROM FAN COIL UNIT 1C & 1D F XMTR	AUX BLDG/586'	1 x 10 ⁴	1.4 x 10 ⁵ (1 Yr)	1.5 x 10 ⁵	

TABLE V-G
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (MAINS)/M202

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
31038 31040	SRVC WTR PUMP HDR 1A, & 1B ISOL CV	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
31084	SRVC WTR TURB BLDG HDR 1A CV	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
31085	SRVC WTR TURB BLDG HDR 1B CV	ADM BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
31088 31089	DIESEL GEN 1A, & 1B OIL CLR WTR OUTL CV	ADM BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
31153 31154 31155 31156	SRVC WTR STRNR 1A1, 1A2, 1B1 & 1B2 DRN CV	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32058	FAN COIL UNIT IC SRVC WTR RET MV	AUX BLDG/602'	1 x 10 ⁴	1.4 x 10 ⁵ (1 Yr)	1.5 x 10 ⁵	2 x 10 ⁸	
32009 32010	COMP CLNG HT EXCH 1A & 1B MV	AUX BLDG/601'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	2 x 10 ⁸	
32011 32012	SRVC WTR AUX & REAC BLDG HDR 1A & 1B MV	ADM BLDG/588'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32029 32030	SRVC WTR TO AUX FDWTR PMP 1A & 1B MV	TURB BLDG/590'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-G
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (MAINS)/M202

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)				
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
32031	SRVC WTR TO TD AUX FDWTR. PMP MV	TURB BLDG/590'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32059	FAN COIL UNIT 1D SRVC WTR RET MV	AUX BLDG/602'	1 x 10 ⁴	1.4 x 10 ⁵ (1 Yr)	1.5 x 10 ⁵	2 x 10 ⁸	
33018 33019 33020 33021	SRVC WTR STRNR 1A1, 1A2, 1B1 & 1B2 DRN SV	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 31153, 31154, 31155, 31156
33033 33034	DIESEL GEN 1A & 1B OIL CLR WTR OUTL SV	ADM BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 31088, 31089
1-023 1-022 1-030 1-029	SRVC WTR PMP 1A1, 1A2, 1B1 & 1B2	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
	STRNR BACKWASH CONTROL PANEL	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32061 32060	FAN COIL UNIT SRVC WTR RET MV	AUX BLDG/607'	3.5 x 10 ⁴	2.9 x 10 ⁷ (1 Yr)	2.9 x 10 ⁷	2 x 10 ⁸	
33040 33041	SRVC WTR PUMP HDR ISOL SV 1A, 1B	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 31038, 31040
33043 33044	SRVC WTR TURB BLDG HDR SV 1A, 1B	TURB BLDG/593' ADM BLDG/596'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 31084, 31085

TABLE V-G
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (MAINS)/M202

EQUIPMENT		COMPONENTS					COMMENTS
I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
1-242 1-243 1-252 1-294	SRVC WTR STRAINER 1A1, 1A2, 1B1, 1B2	SCREEN HOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-H
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MAIN STEAM AND STEAM DUMP/M203

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS) ACCIDENT (DURATION)		TOTAL	
31171 31172 31173	MAIN STM HDR 1A DUMP TO ATMOS CV 1A, 1B & 1C	AUX BLDG/618'-0"	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
31174	MAIN STM HDR 1B CONTROLLED RELIEF CV	AUX BLDG/626'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
32008	MAIN STM HDR 1B ISOL VLV BYPASS MV	AUX BLDG/620'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
32007	MAIN STM HDR 1A ISOL VLV BYPASS MV	AUX BLDG/622'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
31016	MAIN STM HDR ISOL 1B VALVE CV	AUX BLDG/620'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
31170	MAIN STM HDR 1A CONTROLLED RELIEF VALVE CV	AUX BLDG/622'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
31015	MAIN STM HDR 1A ISOL VLV CV	AUX BLDG/620'	1 x 10 ⁴	1.1 x 10 ⁵	(30 Days)	1.2 x 10 ⁵	
31175 31176 31177	MAIN STM HDR 1B DUMP TO ATMOS CV 1A, 1B, & 1C	TURB BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴	(30 Days)	< 1 x 10 ⁴	
31178 31022 31023	MAIN STM HDR 1A DUMP TO CDSR CV 1A & 1B	TURB BLDG/600'	< 1 x 10 ⁴	< 1 x 10 ⁴	(30 Days)	< 1 x 10 ⁴	

TABLE V-H
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MAIN, STEAM AND STEAM DUMP/M203

COMPONENTS

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	
33211 33212 33213	MAIN STM HDR 1A DUMP TO CDSR SV	TURB BLDG/608'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	FOR 31023
33241 33242 33243	MAIN STM HDR 1B DUMP TO CDSR SV	TURB BLDG/608'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	FOR 31179
33214 33215 33216	MAIN STM HDR 1B DUMP TO CDSR SV	TURB BLDG/608'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	FOR 31024
31179 31024 31025	MAIN STM HDR 1B DUMP TO CDSR CV 1D, 1E & 1F	TURB BLDG/600'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	
32038	STM GEN 1A STM SPLY TO TURB DRV AUX FDWTR PMP ISOL MV	AUX BLDG/624'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵	
32039	STM GEN 1B STM SPLY TO TURB DRV AUX FDWTR PMP ISOL MV	AUX BLDG/622'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵	
32040	MAIN STM TO TURB DRV AUX FDWTR PMP START-UP MV	TURB BLDG/587'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	
16114	LUBE OIL INTERLOCK PRESSURE SW	TURB BLDG/591'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	FOR 32040

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TABLE V-H
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MAIN, STEAM AND STEAM DUMP/M203

COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)				COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
33238 33239 33240	MAIN STM HDR 1A DUMP TO CDSR SV	TURB BLDG/608'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		FOR 31178
33208 33209 33210	MAIN STM HDR 1A DUMP TO CDSR SV	TURB BLDG/608'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		FOR 31022
32078	STM GEN 1A BLOWDN ISOL MV 1A2	AUX BLDG/618'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	2 x 10 ⁸	
32080	STM GEN 1B BLOWDN ISOL MV 1B2	AUX BLDG/618'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴	2 x 10 ⁸	
33182 33184 33186 33178	MAIN STM HDR 1B AIR SUPPLY AND RELEASE SV	AUX BLDG/620'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		FOR 31016
21094	STM GEN 1A STM OUTL P XMTR	AUX BLDG/623'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
21095	STM GEN 1A STM OUTL P XMTR	AUX BLDG/623'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
21096	STM GEN 1A STM OUTL P XMTR	AUX BLDG/623'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
21097	STM GEN 1B STM OUTL P XMTR	AUX BLDG/623'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		

TABLE V-H
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MAIN STEAM AND STEAM DUMP/M203

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
21098	STM GEN 1B STM OUTL P XMTR	AUX BLDG/623'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
21099	STM GEN 1B STM OUTL P XMTR	AUX BLDG/623'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
33181 33183 33185 33177	MAIN STM HDR 1A AIR SUPPLY AND RELEASE SV	AUX BLDG/620'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	FOR 31015	
33217 33218 33219	MAIN STM HDR 1B DUMP TO CDR SV	TURB BLDG/608'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$	FOR 31025	
33026	MAIN STM HDR 1B CON- TROLLED RELIEF SV	AUX BLDG/648'	3.5×10^3	1.0×10^6 (30 Days)	1.0×10^6	FOR 31174	
33025	MAIN STM HDR 1A CON- TROLLED RELIEF SV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	FOR 31170	

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TABLE V-H
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MAIN STEAM AND STEAM DUMP/M203

COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)				COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
33220 33221 33222	MAIN STM HDR 1A DUMP TO ATMOS SV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31171
33223 33224 33225	MAIN STM HDR 1A DUMP TO ATMOS SV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31172
33226 33227 33228	MAIN STM HDR 1A DUMP TO ATMOS SV	AUX BLDG/626'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31173
33229 33230 33231	MAIN STM HDR 1B DUMP TO ATMOS SV	TURB BLDG/634'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		FOR 31175
33232 33233 33234	MAIN STM HDR 1B DUMP TO ATMOS SV	TURB BLDG/634'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		FOR 31176
33235 33236 33237	MAIN STM HDR 1B DUMP TO ATMOS SV	TURB BLDG/634'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		FOR 31177

TABLE V-I
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - FEEDWATER AND AUXILIARY FEEDWATER/M205

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
16073 16075	AUX FDWTR PMP 1A & 1B DSCH PS	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
16076	TURB DRIVEN AUX FDWTR PMP DSCH PS	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
21023	AUX FDWTR PMP 1A DSCH P XMTR	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
21024	AUX FDWTR PMP 1B DSCH P XMTR	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
21025	TURB DRIVEN AUX FDWTR PMP DSCH P XMTR	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
23010	AUX FDWTR TO STM GEN 1A FLOW XMTR	AUX BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
23012	AUX FDWTR TO STM GEN 1B FLOW XMTR	AUX BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
31027	FDWTR TO STM GEN 1A MAIN CV	AUX BLDG/606'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
31030	FDWTR TO STM GEN 1B MAIN CV	AUX BLDG/626'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
31157	FDWTR TO STM GEN 1A BYPASS CV	AUX BLDG/606'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
31158	FDWTR TO STM GEN 1B BYPASS CV	AUX BLDG/626'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		

TABLE V-I
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - FEEDWATER AND AUXILIARY FEEDWATER/M205

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
31315	AUX FDWTR PMP 1A DSCH CV	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
31316	AUX FDWTR PMP 1B DSCH CV	TURB BLDG/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
32015	FDWTR TO STM GEN 1A ISOL MV	AUX BLDG/606'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
32016	FDWTR TO STM GEN 1B ISOL MV	AUX BLDG/616'-0"	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		
32027 32028	AUX FDWTR PMP 1A DSCH CROSS-OVER MV	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
1-024 1-031	AUX FDWTR PMP AND MTR 1A & 1B	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
	TURBINE DRIVEN AUX FDWTR PUMP	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (30 Days)	< 1 x 10 ⁴		
33074 33075	FEEDWATER TO STM GEN 1A MN CV SV	AUX BLDG/609'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		FOR 31027
33077 33078	FEEDWATER TO STM GEN 1B MN CV SV	AUX BLDG/629'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		FOR 31030
33080 33081	FEEDWATER TO STM GEN 1A BYPS CV SV	AUX BLDG/612'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		FOR 31157

TABLE V-I
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - FEEDWATER AND AUXILIARY FEEDWATER/M205

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
33082 33083	FEEDWATER TO STM GEN 1B BYPS CV SV	AUX BLDG/632'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31158
33323	AUX FW PMP 1A DISCH SV	TURB BLDG/594'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		FOR 31315
33324	AUX FW PMP 1B DISCH SV	TURB BLDG/594'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		FOR 31316
1-280 1-281	AUX FDWTR LUBE OIL PMP AND MTR 1A & 1B	TURB BLDG/586'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		
1-036	TURB DRIVEN LUBE OIL PMP AND MTR	TURB BLDG/586'	$< 1 \times 10^4$	$< 1 \times 10^4$ (30 Days)	$< 1 \times 10^4$		

TABLE V-J
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - STATION AND INSTRUMENT AIR/M213

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			TOTAL	
			40 YR NORMAL	ACCIDENT (DURATION)			
1-141 1-436	DIESEL START-UP RECEIVERS	TURB BLDG/586'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		
31309	INSTR AIR CNTMT ISOL CV	AUX BLDG/637'	2×10^4	5.3×10^5 (1 Yr)	5.5×10^5		
33248	INSTR AIR CNTMT ISOL CV SV	AUX BLDG/637'	2×10^4	5.3×10^5 (1 Yr)	5.5×10^5		FOR 31309

TABLE V-K
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CONTAINMENT SPRAY/M217

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)				
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
1-107 1-148	CNTMT SPRAY PMP/ CENTRIFUGAL, 1A & 1B	AUX BLDG/592'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	1 x 10 ⁶	
21114 21115	CNTMT SPRAY PMP 1A & 1B DSCH P XMTR	AUX BLDG/586'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	1.4 x 10 ⁸	
24067	CAUSTIC ADDITIVE STANDPIPE L XMTR 1A	AUX BLDG/586'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	1.4 x 10 ⁸	
31272 31273	CNTMT SPRAY TEST LINE TO RWST CV 1A & 1B	AUX BLDG/586'	1 x 10 ⁴	7 x 10 ⁴ (30 Days)	8 x 10 ⁴		
31393 31394	INT CNTMT SPRAY CAUSTIC ADD CV 1A & 1B	AUX BLDG/586'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
	CAUSTIC ADDITIVE VACUUM BREAKERS	AUX BLDG/644'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		
32066	CNTMT SPRAY 1A DSCH MV 1A	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
32067	CNTMT SPRAY PMP 1B DSCH MV 1B	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
33086	CNTMT SPRAY TEST LINE TO RWST SV 1A	AUX BLDG/586'	1 x 10 ⁴	7 x 10 ⁴ (30 Days)	8 x 10 ⁴		FOR 31272
33087	CNTMT SPRAY TEST LINE TO RWST SV 1B	AUX BLDG/586'	1 x 10 ⁴	7 x 10 ⁴ (30 Days)	8 x 10 ⁴		FOR 31273

TABLE V-K
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CONTAINMENT SPRAY/M217

COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)				COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
33378 33379	INT CNTMT SPRAY CAUSTIC ADD CV 1A & 1B SV	AUX BLDG/586'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶		FOR 31393 & 31394
32125 32126	CNTMT SPRAY PMP 1A & 1B SUCT FROM PHR PMP MV	AUX BLDG/588'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	
32068 32069	CNTMT SPRAY PMP 1B DSCH MV 1A & 1B	AUX BLDG/590'	1 x 10 ⁴	5.6 x 10 ⁶ (30 Days)	5.6 x 10 ⁶	2 x 10 ⁸	

TABLE V-L
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SECONDARY SAMPLING/M219

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	
31271	STM GEN 1B SAMPL STOP CV	AUX BLDG/606'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	
31335	STM GEN 1A SAMPL STOP CV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	
33017	STM GEN 1B SAMPL CNTMT ISOL SV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	FOR 31271
33159	STM GEN 1A SAMPL CNTMT ISOL SV	AUX BLDG/611'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5	FOR 31335

TABLE V-M
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - DIESEL GENERATOR, MECHANICAL/M220

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
16634	DSL GEN FUEL OIL DAY TNKS 1A1/1A2 LOW & HIGH LA	TURB BLDG/585'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
16636 16637	DSL GEN FUEL OIL DAY TNKS 1B1/1B2 LOW & HIGH LA	TURB BLDG/585'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
	DSL GEN 1A/1B	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-110 1-139	FUEL OIL THANSFER PMP 1A & 1B	UNDERGROUND TANK/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
11267 11268	DSL GEN FUEL OIL DAY TNKS LEVEL SW	TURB BLDG/597'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-N
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC DRAINS & SUMPS/M350

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
1-207 1-208	RHR PMP PIT SUMP PMP 1A AND 1B MTR	AUX BLDG/566'	3.5×10^4	3×10^7 (1 Yr)	3×10^7	1×10^8	
19493 19556	CONTROL SWITCH & LTS	AUX BLDG/586'	3.5×10^4	3×10^7 (1 Yr)	3×10^7		FOR EQ. 1-207
16694	RHR PUMPS PIT SUMP 1A LEVEL SW	AUX BLDG/586'	3.5×10^4	3×10^7 (1 Yr)	3×10^7	1.3×10^8	FOR EQ. 1-207 and 31341
33330	RHR PUMP 1A PIT SV	AUX BLDG/566'	3.5×10^4	3×10^7 (1 Yr)	3×10^7		FOR 31341
33331	RHR PUMP 1B PIT SV	AUX BLDG/566'	3.5×10^4	3×10^7 (1 Yr)	3×10^7		FOR 31342
19494 19557	CONTROL SWITCH & LTS	AUX BLDG/586'	3.5×10^4	3×10^7 (1 Yr)	3×10^7		FOR EQ. 1-208
16693	RHR PMP PIT SUMP 1B LEVEL SW	AUX BLDG/566'	3.5×10^4	3×10^7 (1 Yr)	3×10^7	1.3×10^8	FOR EQ. 1-208 and 31342
31341 31342	RHR PMP 1A, 1B PIT CV	AUX BLDG/568'	3.5×10^4	3×10^7 (1 Yr)	3×10^7		
16638 16639	RHR PUMP PIT 1A & 1B HIGH LA LEVEL SW	AUX BLDG/568'	3.5×10^4	3.4×10^7 (1 Yr)	3.4×10^7	1.3×10^8	

TABLE V-0
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR BLDG VENT (POST LOCA H₂ CONTROL)/M403

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
19583	POST LOCA H ₂ VENT CV 1B MAN-LOADING CS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 31388	
19584	H ₂ SAMPLE TO GAS ANAL ISOLATION CV 1B ACS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 31384	
19593 19594	H ₂ CONTROL VENT FLOW TRAIN A, B ACS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
31386 31388	POST LOCA H ₂ VENT CV 1A & 1B	ANNULUS/626' & 618'	3.5 x 10 ⁴	1.2 x 10 ⁷ (1 Yr)	1.2 x 10 ⁷		
31387 31389	H ₂ SAMPLE TO GAS ANAL ISOL CV 1A & 1B	ANNULUS/626' & 618'	3.5 x 10 ⁴	1.2 x 10 ⁷ (1 Yr)	1.2 x 10 ⁷		
19578 19582	INSTR AIR TO CNTMT VSL ISOL MV 1A & 1B ES	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19579	POST LOCA H ₂ VENT CV 1A MAN-LOADING CS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 31386	
19580	H ₂ SAMPLE TO GAS ANAL ISOL CV 1A CS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 31387	
19577 19581	POST LOCA H ₂ VENT ISOL MV 1A & 1B ES	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
18239 18240	POST LOCA H ₂ CONTROL 1A & 1B FI	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-0
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR BLDG VENT (POST LOCA H₂ CONTROL)/M403

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
32147 32148	POST LOCA H ₂ CONTROL SUPPLY AIR 1A & 1B ISOL MV	ANNULUS/626' & 618'	3.5 x 10 ⁴	1.2 x 10 ⁷ (1 Yr)	1.2 x 10 ⁷	2 x 10 ⁸	
33394 33395	POST LOCA H ₂ CONTROL SUPPLY AIR VENT 1A & 1B SV	ANNULUS/630' & 620'	3.5 x 10 ⁴	1.2 x 10 ⁷ (1 Yr)	1.2 x 10 ⁷		

TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG, SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
15273 15279	TURB DRIVEN AFW PMP RM STM EXCL RTD 2,3	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19532 19533	CRDM EQUIP RM FAN COIL UNIT 1A, 1B ES	AUX BLDG/642'-3"	3.5 x 10 ³	1.2 x 10 ⁶ (1 Yr)	1.2 x 10 ⁶		FOR 1-601, 1-602
33254 33427	ASV BNDRY DMPR 1P TRAIN A SV	AUX BLDG/642'-3"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		FOR 34049
ABZXA1 ABZXA2 ABZXA3	AUX RLY (TB 1626)	AUX BLDG/642'-3"	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		ZONE SV DAMPER ISOLATION
33258	ZONE SV BNDRY DMPR SV	AUX BLDG/668'	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		FOR 34016
33261- 01, -02 33417	ASV BNDRY DMPR 1A TRAIN A SV1, SV2	AUX BLDG/629'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34019
3326201 & 02 33418	ASV BNDRY DMPR 1B TRAIN A SV1, SV2	AUX BLDG/668'	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		FOR 34020
33263-01, -02 33419	ASV BNDRY DMPR 1C TRAIN A SV1, SV2	AUX BLDG/665'	1 x 10 ⁴	3.7 x 10 ⁴ (1 Yr)	4.7 x 10 ⁴		FOR 34021
33264-01 & 02 33420	ASV BNDRY DMPR 1D TRAIN A SV1, SV2	AUX BLDG/665'	1 x 10 ⁴	3.7 x 10 ⁴ (1 Yr)	4.7 x 10 ⁴		FOR 34022

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TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)				COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
ABZXB1 ABZXB2 ABZXB3	AUX RELAY	AUX BLDG/642'	3.5×10^3	1.4×10^5 (1 Yr)	1.4×10^5		FOR 33264-01 & 02
33265	ZONE SV BNDRY DMPR 1E SV	AUX BLDG/662'	1×10^4	4×10^5 (1 Yr)	4.1×10^5		FOR 34023
33266	ZONE SV BNDRY DMPR 1F SV	AUX BLDG/662'	1×10^4	4×10^5 (1 Yr)	4.1×10^5		FOR 34024
33267 33421	ASV BNDRY DMPR 1L TRAIN A SV	AUX BLDG/665'	1×10^4	4×10^5 (1 Yr)	4.1×10^5		FOR 34025
33268-01 & 02 33422	ASV BNDRY DMPR 1G TRAIN A SV1, 2, SV	AUX BLDG/667'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR 34026
33270-01 & 02	ASV BNDRY DMPR 1J TRAIN A SV1, 2	AUX BLDG/629'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR 34027
33271	ASV BNDRY DMPR 1K TRAIN A SV	AUX BLDG/668'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR 34028
33367-01, -02	DSL GEN RM 1A INLET DMPR/SV 1A1, 1A2	TURB BLDG/601'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR 34004, 34072
33368-01 & 02	DSL GEN RM 1B INLET DMPR SV 1B1, SV 1B2	TURB BLDG/601'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR 34045, 34073
33369-01, & 02	DSL GEN RM1A OUTLET DMPR SV 1A1, 1A2	ADM BLDG/603'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR 34011

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TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)		TOTAL	QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)			
33370-01 & 02	DSL GEN RM 1B OUTLET DMP SV 1B1, SV 1B2	TURB BLDG/603'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34012
TAFRA	AUX RELAY (TB 1626)	AUX BLDG/642'	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		FOR 33452
TAFRB	AUX RELAY (TB 1739)	AUX BLDG/642'	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		FOR 33453, 33451
33454 33455	SCRNHSE EXH FAN 1A DSCH DMPR TRAIN A, B SV	SCRNHSE/591'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34074
33456 33457	SCRNHSE EXH FAN 1B DSCH DMPR TRAIN A, B SV	SCRNHSE/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34075
33458	SCRNHSE EXH FAN DSCH DMPRS CONT SV	SCRNHSE/586'-0"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34074, 34075
33459	SCRNHSE EXH FAN DSCH DMPRS CONT SV	SCRNHSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34075, 34074
34004 34011	DSL GEN RM 1A INLET, OUTLET DMPR (TAV61A) CD	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
34012	DSL GEN RM 1B OUTLET DMPR CD	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
34016	ZONE SV BNDRY DMPR 1H CD	AUX BLDG/657'-6"	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		
34019	ZONE SV BNDRY DMPR 1A CD	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

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TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG, SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		TOTAL	
34022	ZONE SV BNDRY DMPR 1D CD	AUX BLDG/665'	1×10^4	3.7×10^4	(1 Yr)	4.7×10^4	
34020	ZONE SV BNDRY DMPR 1B,	AUX BLDG/657'-6"	1×10^4	4×10^5	(1 Yr)	4.1×10^5	
34025	ZONE SV BNDRY DMPR 1L CD	AUX BLDG/657'-6"	1×10^4	4×10^5	(1 Yr)	4.1×10^5	
34026	ZONE SV BNDRY DMPR 1G CD	AUX BLDG/657'-6"	1×10^4	3.2×10^6	(1 Yr)	3.2×10^6	
34027	ZONE SV BNDRY DMPR 1J CD	AUX BLDG/626'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
34028	ZONE SV BNDRY DMPR 1K CD	AUX BLDG/657'-6"	1×10^4	3.2×10^6	(1 Yr)	3.2×10^6	
34045	DSL GEN RM 1B INTLET DMPR CD	TURB BLDG/586'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
34049	ZONE SV BNDRY DMPR 1P CD	AUX BLDG/657'-6"	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	
34023 34024	ZONE SV BNDRY DMPR 1E, 1F	AUX BLDG/662'	1×10^4	4×10^5	(1 Yr)	4.1×10^5	
34021	ZONE SV BNDRY DMPR 1C	AUX BLDG/665'	1×10^4	3.7×10^4	(1 Yr)	4.7×10^4	
34072 34073	DSL GEN RM OUTSIDE AIR DMPR 1A, 1B CD	TURB BLDG/586'	$< 1 \times 10^4$	$< 1 \times 10^4$	(1 Yr)	$< 1 \times 10^4$	

TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
34074 34075	SCRNHSE EXH FAN 1A, 1B DSCH DMPR CD	SCRNHSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-339 1-340	SPENT FUEL POOL EXH FAN 1A, 1B	AUX BLDG/657'-6"	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		
1-298 1-299	RHR PMP PIT FAN COIL 1A, 1B	AUX BLDG/586'	3.5 x 10 ⁴	3 x 10 ⁷ (1 Yr)	3 x 10 ⁷		
1-451 1-452	SCRNHSE EXH FAN 1A, 1B	SCRNHSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-116 1-118	DSL GEN EXH FAN 1A, 1B	TURB BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19530 19531	RHR PMP PIT FAN COIL 1A, 1B, ES	AUX BLDG/586'	3.5 x 10 ⁴	3 x 10 ⁷ (1 Yr)	3 x 10 ⁷		FOR 1-298, 1-299
19436 19437	TURB BLDG SCRNHSE VENT FAN SUP EX ES	SCRNHSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-451, 1-452
19434 19435	TURB BLDG GEN FAN 1A & 1B ES	TURB BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-116, 1-118
1-632 1-633	DSL GEN NORMAL MODE VENT FAN 1A, 1B	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-059 1-215	BTRY RM EXH FAN 1A, 1B	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-601 1-602	CRDM EQUIP RM FAN COIL UNITS 1A, 1B	AUX BLDG/642'-3"	3.5 x 10 ³	1.2 x 10 ⁶ (1 Yr)	1.2 x 10 ⁶		

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TABLE V-P
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - TURBINE BLDG SCREENHOUSE & AUXILIARY BUILDING VENTILATION/M601

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
19482 19483	BATTERY ROOM EXHAUST FAN ES	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-059, 1-215
1-131 1-136	AUX BLDG MEZ FAN COIL UNIT 1A AND 1B	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19526 19527	AUX BLDG MEZ FAN COIL UNIT 1A, 1B ES	AUX BLDG/610'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-131, 1-136
1-164 1-183	AUX BLDG BSMT FAN COIL UNIT 1A & 1B	AUX BLDG/590'	1 x 10 ⁴	8 x 10 ⁴ (1 Yr)	9 x 10 ⁴		
19528	CONT SW	AUX BLDG/590'	1 x 10 ⁴	8 x 10 ⁴ (1 Yr)	9 x 10 ⁴		FOR 1-164
19529	CONT SW	AUX BLDG/590'	1 x 10 ⁴	8 x 10 ⁴ (1 Yr)	9 x 10 ⁴		FOR 1-183
1-201 1-211	TURB BLDG FAN COIL UNIT 1A & 1B	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19432 19433	TURB BLDG FAN COIL UNIT CS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-201, 1-211
16247 16248	TEMP SW	SCRNHSE/591'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-451
16251	TEMP SW	SCRNHSE/591'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-452
1-667 1-668	BTRY RM EMERG FAN COIL UNIT 1A & 1B	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
19565 19566	BTRY RM FAN COIL UNIT 1A & 1B	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-667 & 1-668

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TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)		TOTAL	QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)			
33385	CNTMT AIR SMPG INLET ISOL 1A CV SV	AUX BLDG/642'-3"	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31383
33386	CNTMT AIR SMPG INLET ISOL 1B CV SV	AUX BLDG/642'-3"	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 31384
31383 31384	CNTMT AIR SMPG INLET ISOL 1A & 1B CV	AUX BLDG/646'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
19585	CNTMT VAC BRKR SELF CV 1A PUSHBUTTON	ANNULUS/670'	3.5×10^4	1.2×10^7 (1 Yr)	1.2×10^7		FOR 33355
19586	CNTMT VAC BRKR SELF CV 1B PUSHBUTTON	ANNULUS/647'	3.5×10^4	1.2×10^7 (1 Yr)	1.2×10^7		FOR 33356
31337	CNTMT VAC BRKR POWER OPER CV 1A	ANNULUS/670'	3.5×10^4	6.5×10^6 (30 Days)	6.5×10^6		
31338	CNTMT VAC BRKR POWER OPER CV 1B	ANNULUS/647'	3.5×10^4	6.5×10^6 (30 Days)	6.5×10^6		
31339	CNTMT VAC BRKR SELF OPER CV 1A	ANNULUS/670'	3.5×10^4	1.2×10^7 (1 Yr)	1.2×10^7		
31340	CNTMT VAC BRKR SELF OPER CV 1B	ANNULUS/647'	3.5×10^4	1.2×10^7 (1 Yr)	1.2×10^7		
	GAS MONITOR						
33355 33356	CNTMT VAC BRKR SELF OPER CVSV	ANNULUS/670'	3.5×10^4	1.2×10^7 (1 Yr)	1.2×10^7		FOR 31339 & 31340

TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		TOTAL	
				ACCIDENT (DURATION)			
1-127 1-145	SHIELD BLDG VENT SYSTEM RECIRC FAN 1A & 1B	AUX BLDG/642'-3"	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6	5×10^7	
1-238 1-239	SHIELD BLDG VENT SYSTEM FILTER ASSY 1A & 1B HEATERS & TEMP SW	AUX BLDG/642'-3"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
1-115 1-147	SHIELD BLDG VENT SYSTEM EXHAUST FAN 1A & 1B	AUX BLDG/642'-3"	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6	1×10^7	
31385	CONTAINMENT ISOLATION VALVE CV	AUX BLDG/642'-3"	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
16427 16428	SHIELD BLDG ANNULUS TO CNTMT 1A, 1B DPS/DPI	AUX BLDG/638'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		FOR 33291, 33292
21051	AUX BLDG TO SHIELD BLDG ANNULUS DP XMTR	AUX BLDG/638'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
21100 21101 21102 21117 21118 21119	CNTMT PRESS NO 1A1, 1A2, 1A3, 1B1, 1B2, 1B3 DIFF P XMTR	AUX BLDG/638'	1×10^4	1.1×10^5 (30 Days)	1.2×10^5		
21105	CNTMT PRESS NORMAL RNG DIFF P XMTR	AUX BLDG/626'		$< 1 \times 10^4$			

TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
21122	SHLD BLDG ANNULUS TO CNTMT DP XMTR	AUX BLDG/638'		< 1 x 10 ⁴			
31123	CNTMT ISOL OUTSIDE VESSEL EXH CV	ANNULUS/657'-6"	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		
33121 33122 33123	CNTMT ISOL OUTSIDE VESSEL EXH CVSV	ANNULUS/657'-6"	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		FOR 31123
31125	CNTMT ISOL OUTSIDE VESSEL SPLY CV	ANNULUS/657'-6"	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		
34006	CNTMT EXH DMPR (RBVS) CD	AUX BLDG/657'-6"	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		
34033	CNTMT PRG & VENT SPLY UNIT EXH DMPR (TAV 12) CD	AUX BLDG/657'-6"	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		
34039 34040	SHLD BLDG FLTR ASSY 1A, 1B1 INLET DMPR (SBV1A, SBV1B) CD	AUX BLDG/642'-3"	3.5 x 10 ³	1.2 x 10 ⁶ (1 Yr)	1.2 x 10 ⁶		
33127 33128 33129	CNTMT ISOL OUTSIDE VESSEL SPLY CV SV	ANNULUS/657'-6"	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		FOR 31125
34043	CNTMT VENT FAN DMPR (RBV7) CD	AUX BLDG/657'-6"	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		

TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)				
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
33291	CNTMT ISOL VSL EXH CV VENT SV	ANNULUS/666'	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		FOR 31337
33292	CNTMT ISOL VSL EXH CV VENT SV	ANNULUS/666'	3.5 x 10 ⁴	6.5 x 10 ⁶ (30 Days)	6.5 x 10 ⁶		FOR 31338
33387	CNTMT ISOL OUTSIDE VSL EXH CV VENT SV	AUX BLDG/646'	1 x 10 ⁴	1.1 x 10 ⁵ (30 Days)	1.2 x 10 ⁵		FOR 31385
33621 33622	CNTMT ISOL OUTSIDE VSL SPLY CV VENT SV	AUX BLDG/642'-6"	3.5 x 10 ³	1.2 x 10 ⁶ (1 Yr)	1.2 x 10 ⁶		
33276-01	CNTMT PRG & VENT SPLY UNIT EXH SV	AUX BLDG/663'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34033
33276-02	CNTMT PRG & VENT SPLY UNIT EXH DMPR SV	AUX BLDG/663'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34033
33283-01	CNTMT PRG & VENT EXH DMPR SV	AUX BLDG/666'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34006
33283-02	CNTMT EXH DMPR SV	AUX BLDG/666'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34006
33301-01	CNTMT VENT EXH FAN LATER DMPR SV	AUX BLDG/666'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34043
33301-02	CNTMT VENT EXH FAN DMPR SV	AUX BLDG/666'	1 x 10 ⁴	8.7 x 10 ⁵ (1 Yr)	8.8 x 10 ⁵		FOR 34043
CR1/ 26348	AUX RELAY (FLTR ASSY PNL)	AUX BLDG/652'	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		

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TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
SRI/ 26348	AUX RELAY (FLTR ASSY PNL)	AUX BLDG/652'	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		
CR1/1-238	AUX RLY	AUX BLDG/642'-3"	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 1-238
CR2/1-238	AUX RLY	AUX BLDG/642'-3"	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 1-238
18471	HUMIDITY SENSOR FOR SBV FILTER ASSY 1A	AUX BLDG/642'-3"	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 1-238
CR1/1-239	AUX RELAY	AUX BLDG/642'-3"	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 1-239
CR2/1-239	AUX RELAY	AUX BLDG/642'-3"	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 1-239
18472	HUMIDITY SENSOR FOR SBV FILTER ASSY 1B	AUX BLDG/642'-3"	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 1-239
33289	SHLD BLDG FLTR ASSY 1A INLET DMFR SV	AUX BLDG/647'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 34039
33290	SHLD BLDG FLTR ASSY 1B INLET DMFR SV	AUX BLDG/647'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 34040
32375	SHLD BLDG VENT SYS	AUX BLDG/660'	$< 1 \times 10^4$	3.7×10^5 (1 Yr)	3.8×10^5	1×10^6	
32376	RCRC FAN 1A CHCK MD	AUX BLDG/660'	$< 1 \times 10^4$	3.7×10^5 (1 Yr)	3.8×10^5		
32377	EXHT FAN 1A CHCK MD	AUX BLDG/663'	$< 1 \times 10^4$	2.1×10^5 (1 Yr)	2.2×10^5		
	SHLD BLDG FLTR ASSY 1A CONT CAB	AUX BLDG/642'	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 32377

TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
32378	SHLD BLDG SYS RCRC	AUX BLDG/660'	$< 1 \times 10^4$	5.6×10^5 (1 Yr)	5.7×10^5	1×10^6	
32379	FAN 1B CHK MD	AUX BLDG/660'	$< 1 \times 10^4$	5.2×10^5 (1 yr)	5.3×10^5		
32380	EXHT 18 CHK MD	AUX BLDG/663'	$< 1 \times 10^4$	2.5×10^5 (1 yr)	2.6×10^5		
	PRESS CONTROLLER FOR SBV FILT ASSY 1B	AUX BLDG/663'	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 32378 32379, 32380
	PRESS CONTROLLER FOR SBV FILT ASSY 1A	AUX BLDG/663'	$< 1 \times 10^4$	3.2×10^6 (1 Yr)	3.2×10^6		FOR 32375, 32376, 32377
32382	SHLD BLDG VENT SYS EXH 1A CHK MD	AUX BLDG/657'-6"	$< 1 \times 10^4$	4.6×10^5 (1 Yr)	4.7×10^5	1×10^6	
32383	SHLD BLDG EXH FAN 1A DISCH MD	AUX BLDG/663'	$< 1 \times 10^4$	3.0×10^5 (1 Yr)	3.1×10^5	1×10^6	
32384	SHLD BLDG VENT SYS RCRC FAN 1A RCRC MD	AUX BLDG/660'	$< 1 \times 10^4$	4.6×10^5 (1 Yr)	4.7×10^5	1×10^6	
16416	AUX BLDG TO SHIELD	AUX BLDG/638'	$< 1 \times 10^4$	2×10^5 (1 Yr)	2.1×10^5		FOR 32384 & 32383
16417	BLDG ANNU DPS						
33311	SPRAY WTR SHIELD BLDG	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		
33312	FILT ASSY SV						
32385	SHLD BLDG VENT SYS RCRC FAN 1B EXH MD	AUX BLDG/660'	$< 1 \times 10^4$	8.3×10^5 (1 Yr)	8.4×10^5	1×10^6	

TABLE V-Q
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - REACTOR & SHIELD BLDG VENT/M602

EQUIPMENT I. D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
32386	SHLD BLDG VENT SYS EXH FAN 1B DISCH MD	AUX BLDG/660'	1×10^4	3.3×10^5 (1 Yr)	3.4×10^5	1×10^6	
32387	SHLD BLDG VENT SYS RCRC FAN 1B RCRC MD	AUX BLDG/660'	1×10^4	8.7×10^5 (1 Yr)	8.8×10^5	1×10^6	
26343 26344	SHIELD BLDG FILTER ASSY 1A, 1B HEAT DET	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 33311, 33312

TABLE V-R
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CONTROL ROOM AIR CONDITIONING (AIR SIDE)/M603

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)				COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	QUALIFIED	
1-265 1-266	CONTROL ROOM POST ACCIDENT RECIRC FANS	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
	CONTROL ROOM POST ACCIDENT RECIRC FILTER ASSEMBLIES	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-317 1-318	CONTROL ROOM A/C UNIT 1A & 1B	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
34084 34085	RELAY ROOM SUPPLY CD RELAY ROOM RETURN CD	RELAY ROOM	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
33641	RELAY ROOM CD SV		< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34084, 34085
57605 57606 57613 57614	CONTROL SWITCHES ON VENT PANEL	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-265, 1-266
33094	NONACCIDENT FRESH AIR DAMPER SV	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34007
34007	NONACCIDENT FRESH AIR CD	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
57604 57610 57611 57612	CONTROL SWITCHES ON VENT PANEL	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-317, 1-463, 1-315 1-318, 1-464, 1-316

TABLE V-R
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - CONTROL ROOM AIR CONDITIONING (AIR SIDE)/M603

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
32367	AUX BLDG A/C INLET MD	AUX BLDG/655'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32368	AUX BLDG VENT INLET MD	AUX BLDG/652'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR EQ NO. 32368	
32370	POST ACCIDENT FRESH AIR MD	AUX BLDG/651'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32371	POST ACCIDENT RECIRC MD	AUX BLDG/651'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
57603 57609	CONT SW (VENT PNL)	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR EQ NO. 32371, 32370, 32367, & 32368	
57607 57608	CONT SW (VENT PNL)	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR EQ NO. 32371, 32370, 32367, & 32368	
32374	CONTROL RM RECIRC ISO MD	AUX BLDG/652'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR EQ NO. 32371	
34061 34062	STM EXCLUSION BOUN- DARY DAMPERS 8A & B	AUX BLDG/642'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
33441 33442	STM EXCLUSION BOUN- DARY DAMPERS 8A & B SV	AUX BLDG/642'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 34061 & 34062	

TABLE V-S
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - AUX BLDG ZONE SV VENT & AUX BLDG AIR COND/M604

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)		TOTAL	QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)			
34014 34015	ZONE SV EXH FAN 1A & 1B DISCHARGE DAMPER	AUX BLDG/657'-6"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		
1-126 1-144	ZONE SV EXHAUST FAN 1A & 1B	AUX BLDG/657'-6"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶	1 x 10 ⁹	
1-449 1-450	ZONE SV EXHAUST FILTER 1A & 1B ASSEMBLIES HEATING COILS	AUX BLDG/657'-6"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		
33255	ZONE SV EXH FLTR ASSY 1A INLET DAMPER SV	AUX BLDG/657'-6"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		FOR 34013
33256 33257	ZONE SV EXH FAN 1A & 1B DSCHG DMPR SV	AUX BLDG/662'	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		FOR 34014, 34015
33259	ASV DMPR 1A TRAIN A SV	AUX BLDG/642'	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		FOR 34017
33260 33416	ASV DMPR 1B TRAIN A SV ASV DMPR 1B TRAIN B SV	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 34018
34017	ZONE SV BOUNDARY DAMPER CD	AUX BLDG/642'-3"	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		
34046 34047	ZONE SV BOUNDARY DAMPER #1M & #1N (ASV 75) CD	AUX BLDG/642'-3"	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		
34018	ZONE SV BOUNDARY DAMPER 1B CD	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
34003	ZONE SV BOUNDARY DAMPER #1C CD	AUX BLDG/642'-3"	3.5 x 10 ³	1.4 x 10 ⁵ (1 Yr)	1.4 x 10 ⁵		

TABLE V-S
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - AUX BLDG ZONE SV VENT & AUX BLDG AIR COND/M604

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
33328 33329 33425 33426	ASV BOUNDARY DAMPER 1M & 1N TRAIN A and B SV	AUX BLDG/642'-3"	3.5×10^3	1.4×10^5 (1 Yr)	1.4×10^5		FOR 34046, 34047
33366 33428	ASV DAMPER 1C TRAIN A SV	AUX BLDG/642'-3"	3.5×10^3	1.4×10^5 (1 Yr)	1.4×10^5		FOR 34003
18470 18473	EXHAUST FILTER ASSY 1A & 1B HUM	AUX BLDG/657'-6"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
34010 34013	EXH FLTR ASSY INLET DAMPER 1A & 1B CD	AUX BLDG/657'-6"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
33252	ZONE SV EXH FLTR ASSY 1B INLET DMPR SV	AUX BLDG/663'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR 34010

TABLE V-T
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (PIPING TO FAN COIL UNITS) & CONTROL ROOM AIR CONDITIONING (WATER SIDE)/M606

COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	TOTAL INTEGRATED DOSE (RADS)			COMMENTS
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL	
16220	CONTROL ROOM A/C UNIT CHILLED WATER TS	AUX BLDG/642'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
16221 16222	AUX BLDG BSMT FAN COIL UNIT 1A TS	AUX BLDG/586'	1 x 10 ⁴	8 x 10 ⁴ (1 Yr)	9 x 10 ⁴	FOR 1-164, 1-183
16225 16226	AUX BLDG MEZZ FAN COIL UNIT 1A TS	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 1-131, 1-136
16228 16227	RHR PMP PIT FAN COIL UNIT 1A TS	AUX BLDG/568'	3.5 x 10 ⁴	3 x 10 ⁷ (1 Yr)	3 x 10 ⁷	
16230 16231	TURB BLDG FAN COIL UNIT 1A TS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
33302	SW TO AUX BLDG BSMT FAN SV	AUX BLDG/570'	1 x 10 ⁴	8 x 10 ⁴ (1 Yr)	9 x 10 ⁴	FOR 1-183
33287	TURB BLDG FAN COIL UNIT 1A CLG WTR SV	TURB BLDG/570'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 1-201
33288	TURB BLDG FAN COIL UNIT 1B CLG WTR SV	TURB BLDG/570'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	FOR 1-211
31129 31130	CONTROL ROOM A/C CONDENSER 1A & 1B SW CV	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	
33303 33304	SW TO RSDL HT PMP PIT FAN COIL UNIT 1A & 1B SV	AUX BLDG/575'	3.5 x 10 ⁴	3 x 10 ⁷ (1 Yr)	3 x 10 ⁷	FOR 1-298, 1-299

TABLE V-T
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (PIPING TO FAN COIL UNITS) & CONTROL ROOM AIR CONDITIONING (WATER SIDE)/M606

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
33309	AUX BLDG ZONE SV EXH FILTER ASSY 1A DELUGE SV	AUX BLDG/665'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
CR1/26341	RELAY	AUX BLDG/657'-6"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR EQ NO. 33309
SR1/26341	RELAY	AUX BLDG/657'-6"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR EQ NO. 33309
33307 33308	SW TO AUX BLDG MEZZ FAN FAN COIL UNIT 1A & 1B SV	AUX BLDG/610'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR 1-131, 1-136
33305 33306	SW TO CRDM EQUIP RM FAN COIL UNIT 1A & 1B SV	AUX BLDG/645'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR 1-601, 1-602
16223 16224	CRDM FAN COIL UNIT TS	AUX BLDG/645'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR EQ NO. 33306, 33305
33311	SPRAY WTR SHLD BLDG FLTR SV	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		LATER
CR1/33311	RELAY	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR EQ NO. 33311
SR1/33311	RELAY	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR EQ NO. 33311
33310	AUX BLDG ZONE SV EXH FLTR 1B DELUGE SV	AUX BLDG/665'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
CR1/26342 SR1/26342 CR1X/26342	RELAY	AUX BLDG/657'-6"	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		FOR EQ NO. 33310

TABLE V-T
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (PIPING TO FAN COIL UNITS) & CONTROL ROOM AIR CONDITIONING (WATER SIDE)/M606

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
33313	SW TO AUX BLDG BSMT FAN SV	AUX BLDG/590'	1×10^4	8×10^4 (1 Yr)	9×10^4		FOR 1-164
33312	SPRAY WTR SHLD BLDG FLTR ASSY 1B SV	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		
SR1/33312	RELAY (SPRAY CONT PNL)	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR EQ NO. 33312
CR1/33312	RELAY (SPRAY CONT PNL)	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		FOR EQ NO. 33312
CR1/26347	RELAY	AUX BLDG/658'	1×10^4	4×10^5 (1 Yr)	4.1×10^5		FOR EQ NO. 33160
SR1/26347	RELAY	AUX BLDG/658'	1×10^4	4×10^5 (1 Yr)	4.1×10^5		FOR EQ NO. 33160
SR1/26346	RELAY	AUX BLDG/648'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR EQ NO. 33353, NO. 33354
CR1/26346	RELAY	AUX BLDG/648'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR EQ NO. 33353, NO. 33354
SR1/26345 CR1/26345	RELAY	AUX BLDG/648'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR EQ NO. 33353
33360	SPENT FUEL POOL EXH FLTR ASSY 1B HD SV	AUX BLDG/642'-3"	1×10^4	4×10^5 (1 Yr)	4×10^5		
33361	CONTH PURGE EXH FILTER SV	AUX BLDG/642'-3"	1×10^4	8.7×10^5 (1 Yr)	8.8×10^5		
CR1/26348	RELAY	AUX BLDG/652'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		FOR EQ NO. 33361

TABLE V-T
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (PIPING TO FAN COIL UNITS) & CONTROL ROOM AIR CONDITIONING (WATER SIDE)/M606

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
SR1/26348	RELAY	AUX BLDG/652'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR EQ NO. 33361
33365	SPENT FUEL POOL EXH FLTR 1A HD SV	AUX BLDG/657'-6"	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4 x 10 ⁵		
33371	BAT RM FAN COIL UNIT 1A SV	TURB BLDG/617'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-667
16233 16234	TEMP SWITCH	TURB BLDG/617'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR EQ NO. 33371
33372	BAT RM FAN COIL UNIT 1B WATER SUPPLY VLV SV	TURB BLDG/617'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		FOR 1-668
CR1/26351	RELAY	AUX BLDG/658'	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		FOR EQ NO. 33372
SR1/26351	RELAY	AUX BLDG/658'	1 x 10 ⁴	4 x 10 ⁵ (1 Yr)	4.1 x 10 ⁵		FOR EQ NO. 33372
1-463 1-464	CONTROL ROOM A/C CHILLER PUMP 1A & 1B	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-315 1-316	CONTROL ROOM A/C CHILLER 1A & 1B	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32143	CONT ROOM A/C UNIT 1A 3-WAY MIXING MV	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
32144	CONT ROOM A/C UNIT 1B 3-WAY MIXING MV	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
33353	POST ACCIDENT RCRC FILTER 1A DELUGE SV		< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-T
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - SERVICE WATER (PIPING TO FAN COIL UNITS) & CONTROL ROOM AIR CONDITIONING (WATER SIDE)/M606

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
33354	POST ACCIDENT RCRC FILTER 1B DELUGE SV		$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		
26330 26331	COOLING WATER TC 1A & 1B	AUX BLDG/654'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		
26341 26342	ZONE SV FILTER ASSEMBLY 1A & 1B HD	AUX BLDG/657'	1×10^4	3.2×10^6 (1 Yr)	3.2×10^6		
26343 26344	SHIELD BLDG FILTER ASSY 1A & 1B HD	AUX BLDG/655'	3.5×10^3	1.2×10^6 (1 Yr)	1.2×10^6		
26345 26346	POST ACCIDENT RECIRC FILT 1A & 1B DELUGE RD	AUX BLDG/648'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		
26347	SPENT FUEL POOL EXH FILTER ASSY HD	AUX BLDG/658	1×10^4	4×10^5 (1 Yr)	4.1×10^5		
26348	CNMT PURGE EXHT FILT ASSY HD	AUX BLDG/652'	$< 1 \times 10^4$	$< 1 \times 10^4$ (1 Yr)	$< 1 \times 10^4$		

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
1-52A	480V MOTOR CONTROL CNTR	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
1-62A	480V MOTOR CONTROL CNTR	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
1-52B	480V MOTOR CONTROL CNTR	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62B	480V MOTOR CONTROL CNTR	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62B EXTENSION	480V MOTOR CONTROL CNTR	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-52C	480V MOTOR CONTROL CNTR	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
1-62C	480V MOTOR CONTROL CNTR	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
1-52D	480V MOTOR CONTROL CNTR	SCREENHOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62D	480V MOTOR CONTROL CNTR	SCREENHOUSE/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-52E	480V MOTOR CONTROL CNTR	AUX BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62E	480V MOTOR CONTROL CNTR	AUX BLDG/586'	1 x 10 ⁴	6 x 10 ⁴ (1 Yr)	7 x 10 ⁴		
1-62H	480V MOTOR CONTROL CNTR	AUX BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-52F	480V MOTOR CONTROL CNTR	AUX BLDG/642'-3"	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62F	480V MOTOR CONTROL CNTR	AUX BLDG/642'-3"	1 x 10 ⁴	3.2 x 10 ⁶ (1 Yr)	3.2 x 10 ⁶		
1-51	480V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-52	480V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
1-61	480V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-62	480V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-5	4160V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
1-6	4160V SWITCHGEAR BUS	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
BRA-101	125V DC BATTERY	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-101	125V DC BATTERY	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-102	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-102	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-103	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-103	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-104	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-104	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-108	125V DC BATTERY CHARGER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-108	125V DC BATTERY CHARGER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-101P	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
BRA-101N	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			40 YR NORMAL	TOTAL INTEGRATED DOSE (RADS)		QUALIFIED	
				ACCIDENT (DURATION)	TOTAL		
BRA-111	120V INSTR BUS INVENTER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-112	120V INSTR BUS INVENTER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-111	120V INSTR BUS INVENTER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-112	120V INSTR BUS INVENTER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-113	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-114	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-113	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-114	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-107	INSTR BUS TRANSFER SWITCH	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-107	INSTR BUS TRANSFER SWITCH	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-106	INSTR BUS TRANSFORMER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-106	INSTR BUS TRANSFORMER	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRA-105	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM
BRB-105	INSTR BUS DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN BATTERY ROOM

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
DR-102	TRAIN A DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-103	TRAIN A DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-104	TRAIN A DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-105	TRAIN A DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-106	TRAIN A DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-112	TRAIN B DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-113	TRAIN B DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-114	TRAIN B DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-115	TRAIN B DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-116	TRAIN B DSL SEQUENCING RACK	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
DR-101	TRAIN A DSL GEN CNTL PNL	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
DR-111	TRAIN B DSL GEN CNTL PNL	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN DSL GEN ROOM
BRB-101P	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
BRB-101N	125V DC DIST CABINET	TURB BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
RR-106	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-107	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-108	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-109	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-112	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-113	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-114	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-115	SAFEGUARD INSTR PANEL	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-121	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
RR-122	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-123	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-124	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-125	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-130	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-131	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-132	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-133	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-134	REACTOR PROTECTION RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-126	ENGINEERED SAFEGUARD RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-127	ENGINEERED SAFEGUARD RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-128	ENGINEERED SAFEGUARD RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-129	ENGINEERED SAFEGUARD RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		IN RELAY ROOM
RR-142	AUX RELAY RACK	AUX BLDG/606'		(1 Yr)			IN RELAY ROOM

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)			QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)	TOTAL		
RR-143	AUX RELAY RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-144	AUX RELAY RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-147	AUX RELAY RACK	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-171	125V DC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-176	125V DC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-170	120V AC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-172	120V AC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-173	120V AC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
RR-175	120V AC FUSE CABINET	AUX BLDG/606'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	IN RELAY ROOM	
46XXX	CONTROL SWITCHES	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴	CONTROL ROOM CONSOLES & VERTICAL PANELS	
41XXX	INDICATORS/INDICATING LIGHTS	AUX BLDG/626'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
1-32E	480V MTR CONTROL CTR	AUX BLDG/606'		(1 Yr)			
1-42E	480V MTR CONTROL CTR	AUX BLDG/606'		(1 Yr)			
1-35E	480V MTR CONTROL CTR	AUX BLDG/657'-6"		(1 Yr)			
1-45E	480V MTR CONTROL CTR	AUX BLDG/657'-6"		(1 Yr)			
DR-108	SERV WTR AUX RELAY PNL	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

TABLE V-U
EQUIPMENT QUALIFICATION LIST

SYSTEMS/FLOW DIAGRAM - MISC ELECTRICAL EQUIPMENT/COMPONENTS

EQUIPMENT I.D. NUMBER	NAME/TYPE	LOCATION BLDG/FLOOR EL.	COMPONENTS				COMMENTS
			TOTAL INTEGRATED DOSE (RADS)		TOTAL	QUALIFIED	
			40 YR NORMAL	ACCIDENT (DURATION)			
DR-118	SERV WTR AUX RELAY PNL	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		
	AUXILIARY FEEDWATER PNL	TURB BLDG/586'	< 1 x 10 ⁴	< 1 x 10 ⁴ (1 Yr)	< 1 x 10 ⁴		

APPENDIX D
GENERIC EQUIPMENT ITEMS

There are some electrical devices so ubiquitous at KNPP that they are not assigned five or seven digit Plant ID Numbers. Examples are cable, splices, and terminal blocks. Although not individually identified, these devices are frequently used in applications important to safety (as defined in 10CFR50.49) and located in a harsh environment, thereby requiring environmental qualification. Since they are not individually identified, this type of device requires special attention in DCR work and maintenance activities. The list of environmentally qualified generic equipment items which has been reported to the NRC is presented in the following table.

TABLE G-1

<u>Manufacturer</u>	<u>Model</u>	<u>Component</u>
Boston Insulate Wire	Bostrad 7	Control Cable
Chevron	BRB-2 SRI-2	Lubrication Grease
General Electric	EB5, EB25 CR-120-B	Terminal Strips Relays
Kerite	FR Insul/HTK Insul	Cable
Kerite		Cable Splice and Termination Kits
Marathon	142 NUC, 1500 NUC, 1600 NUC	Terminal blocks/strips
Nebula	E550-EP-1	Grease
Okonite	Okonite-Okoprene	Cable
Okonite	T-95	Cable Splice and Termination Kits
Raychem	N-VariouS	Splices and heat shrink tubing

APPENDIX E
EQUIPMENT LISTS

This appendix consists of three tables, each of which lists all **electrical equipment important to safety** (as defined in 10CFR50.49) at KNPP. This includes equipment located in both **harsh** and **mild** environments. Only **electrical equipment important to safety** (as defined in 10CFR50.49) which is located in a **harsh environment** is **environmentally qualified**.

<u>Table</u>	<u>Title</u>	<u>Page</u>
E-1	Plant ID Sort	E-2
E-2	System Sort	E-57
E-3	Manufacturer/Model Sort	E-122

TABLE E-1ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY (per 10CFR50.49)PLANT ID SORT

NOTES ON USE:

1. Certain pages of this appendix contain Plant ID numbers which do not conform to the standard plant 5-digit or 7-digit numbering. This equipment consists of relays (which are numbered in accordance with schematic drawings) and of generic items.
2. Limitorque valve motor operators are listed twice: once by 5-digit instrument number and once by electrical motor number (1-XXX). No other equipment is listed twice.
3. If you do not find equipment listed in this appendix, then its EQ Type is "N".

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
ALP-1	ALPHA	5515	M	NO
AMP-1	AMPHENOL	82-816-1000HN	H1	YES (T,P,H,R,CS)
BEL-3	BELDEN	8777	M	YES (T,R)
BIW-1	BOSTON INSULATE WIRE	BOSTRAD 7	H2	YES (T,P,H,CS,R,S)
BREX-1	BRAND REX	HYPALON JACKET	H1	YES (T,P,H,R,CS)
CCRAX-1-A	SQUARE D	TYPE CO-2D	M	NO
CCRAX-2-A	SQUARE D	TYPE CO-2D	M	NO
DGO-1	D. G. O'BRIEN	MVP (PR-110)	H2	YES (T,P,H,CS,R)
DGO-2	D. G. O'BRIEN	LVP (PR-12)	H2	YES (T,P,H,CS,R) YES (T,H)
DGO-3	D. G. O'BRIEN	CRDP (PR-7)	H2	YES (T,P,H,CS,R)
DGO-4	D. G. O'BRIEN	NIS (PR-2)	H2	YES (T,P,H,CS,R) YES (T,H)
DGO-5	D. G. O'BRIEN	RM (PR-11)	H2	YES (T,P,H,CS,R)
DGO-6	D. G. O'BRIEN	I&C (PR-8)	H2	YES (T,P,H,CS,R) YES (T,H)
DGO-7	D.G. O'BRIEN	R19P1010G05	H2	YES (T,P,H,R,CS)
END-1	ENDEVCO	3075M6-240	O	YES (T,P,H,R,CS)
END-2	ENDEVCO	3075M-360	O	YES (T,P,H,R,CS)
END-3	ENDEVCO	3075M6-120	O	YES (T,P,H,R,CS)
G-7	CHEVRON	BPB-2 SRI-2	H2	YES (T,P,H,CS,R,S)
GEN-2	GENERAL ELECTRIC	EBS, EB25	H1	YES (T,P,H,CS,R)
GEN-3	GENERAL ELECTRIC	EBS & EB25	H1	YES (T,P,H,CS,R)
KER-1	KERITE	FR INSUL/HTK INSUL	H2	YES (T,P,H,CS,R,S)
KER-2	KERITE	SEE NOTE A	H2	YES (T,P,H,CS,R)
LABARGE-1	LABARGE	MIL-W-81381-12-14	H1	YES (T,H,R)
MS-103	WOODWARD GOVERNOR CO	PG	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
NEB-1	NEBULA	E550-EP-1	H2	YES (T,P,H,CS,R)
OKO-1	OKONITE	OKONITE-OKOPRENE	H1	YES (T,P,H,CS,R,S)
OKO-2	OKONITE	T-95	H1	YES (T,P,H,CS,R)
OKO-3	OKONITE	OKOLON JACKET	H1	YES (T,P,H,R,CS)
OKO-4	OKONITE	OKOLON JACKET	H1	YES (T,P,H,R,CS)
OKO-5	OKONITE	OKOZEL (TEFZEL)	H1	YES (T,P,H,R,CS,S)
OKO-6	OKONITE	OKOZEL (TEFZEL)	H1	YES (T,P,H,R,CS,S)
OKO-7	OKONITE	202-11-2402	H1	YES (T,R)
ROC-1	ROCKBESTOS CO.	SIS	H1	NO
1-020	WESTINGHOUSE	5809-H	H2	YES (R) NO
1-021	WESTINGHOUSE	504-US	M	NO
1-022	ALLIS CHALMERS	580888	M	NO NO
1-023	ALLIS CHALMERS	580888	M	NO NO
1-024	ALLIS CHALMERS	507US	M	NO NO
1-025	WESTINGHOUSE	ABDP	H2	YES (R)
1-027	WESTINGHOUSE	5809-H	H2	YES (R) NO
1-028	WESTINGHOUSE	504-US	M	NO
1-029	ALLIS CHALMERS	580888	M	NO NO
1-030	ALLIS CHALMERS	580888	M	NO NO
1-031	ALLIS CHALMERS	507US	M	NO NO
1-032	WESTINGHOUSE	ABDP	H2	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
1-033	LIMITORQUE	SMB-000	M	NO NO
1-036	WESTINGHOUSE	218A	M	NO NO
1-040	LIMITORQUE	SMB-000	M	NO NO
1-052	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
1-073	LIMITORQUE	SMB-000	M	NO
1-102	LIMITORQUE	SMB-000	H1	YES (R)
1-107	ALLIS CHALMERS	445TS	H2	YES (R)
1-110	REDA PUMP	G443D35P-5	M	NO NO
1-115	ROTRON	1505JH	H2	YES (R)
1-116	RELIANCE	324TCZ	M	NO NO
1-118	RELIANCE	324TCZ	M	NO NO
1-119	SORGEL ELECTRIC	75T3H	M	NO NO
1-120	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-121	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-125	C & D	ARR130HK150F3E	M	NO NO
1-126	RELIANCE	284-T	H2	YES (R)
1-127	RELIANCE	284-T	H2	YES (R)
1-130	LIMITORQUE	SMB-00	H1	YES (R)
1-131	LOUIS ALLIS	R184T	M	NO
1-136	LOUIS ALLIS	R184T	M	NO
1-139	REDA PUMP	G443D35P-5	M	NO NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			EQ TYPE	HARSH
1-140	LIMITORQUE	SMB-00	H1	YES (R)
1-141	LINCOLN	213T	M	NO
1-143	C & D	ARR130HK150F3E	M	NO NO
1-144	RELIANCE	284-T	H2	YES (R)
1-145	RELIANCE	284-T	H2	YES (R)
1-147	ROTRON	1505JH	H2	YES (R)
1-148	ALLIS CHALMERS	445TS	H2	YES (R)
1-149	LIMITORQUE	SMB-000	H3	YES (R)
1-150	LIMITORQUE	SMB-000	H3	YES (R)
1-153	SORGEL ELECTRIC	75T3H	M	NO NO
1-156	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-157	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-164	US ELECTRIC	213T	M	NO
1-165	LIMITORQUE	SMB-000	M	NO NO
1-183	US ELECTRIC	213T	M	NO
1-201	LOUIS ALLIS	R18T	M	NO NO
1-211	LOUIS ALLIS	R184T	M	NO NO
1-232	LIMITORQUE	SMB-2	H1	YES (T,R) YES (T,H)
1-236	LIMITORQUE	SMB-2	H1	YES (R) NO
1-238	CHROMALOX		H2	YES (R)
1-239	CHROMALOX		H2	YES (R)
1-242	RELIANCE	184 TD	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
1-243	RELIANCE	184 TD	M	NO
1-252	RELIANCE	184 TD	M	NO
1-265	RELIANCE	213-T	M	NO NO
1-266	RELIANCE	213-T	M	NO NO
1-280	ALLIS CHALMERS	145T	M	NO NO
1-281	ALLIS CHALMERS	145T	M	NO NO
1-294	RELIANCE	184 TD	M	NO
1-298	RELIANCE	SPECIAL	H1	YES (R)
1-299	RELIANCE	SPECIAL	H1	YES (R)
1-315	TRANE		M	NO
1-316	TRANE		M	NO NO
1-317	US ELECTRIC	256T	M	NO
1-318	US ELECTRIC	256T	M	NO NO
1-321	LIMITORQUE	SMB-00	H3	YES (R)
1-342	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-353	LIMITORQUE	SMB-0	H1	YES (R)
1-355	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-356	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-359	LIMITORQUE	SMB-00	H3	YES (R)
1-361	LIMITORQUE	SMB-000	H1	YES (R)
1-362	LIMITORQUE	SMB-000	H1	YES (R)
1-363	LIMITORQUE	SMB-000	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			EQ TYPE	HARSH
1-364	LIMITORQUE	SMB-000	H1	YES (R)
1-365	LIMITORQUE	SMB-00	M	NO
1-366	LIMITORQUE	SMB-0	H3	YES (R) NO
1-367	LIMITORQUE	SMB-0	H3	YES (R) NO
1-368	LIMITORQUE	SMB-00	H3	YES (R) NO
1-370	LIMITORQUE	SMB-00	H3	YES (R) NO
1-373	LIMITORQUE	SMB 1-40	H1	YES (R)
1-374	LIMITORQUE	SMB 1-40	H1	YES (R)
1-375	LIMITORQUE	SMB 1-40	H1	YES (R)
1-376	LIMITORQUE	SMB 1-40	H1	YES (R)
1-377	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
1-378	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
1-379	LIMITORQUE	SMB-0	H1	YES (R)
1-380	LIMITORQUE	SMB-0	H1	YES (R)
1-381	LIMITORQUE	SMB-00	H1	YES (R)
1-382	LIMITORQUE	SMB-00	H1	YES (R)
1-383	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-384	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-385	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-386	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
1-387	LIMITORQUE	SMB-00	H3	YES (R)
1-388	LIMITORQUE	SMB-00	H3	YES (R)
1-394	LIMITORQUE	SMB-000	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			EQ TYPE	HARSH
1-395	LIMITORQUE	SMB-000	H1	YES (R)
1-396	LIMITORQUE	SMB-000	H1	YES (R)
1-397	LIMITORQUE	SMB-000	H1	YES (R)
1-399	LIMITORQUE	SMB-000	M	NO
1-401	LIMITORQUE	SMB-000	M	NO
1-402	LIMITORQUE	SMB-000	M	NO
1-403	LIMITORQUE	SMB-000	M	NO
1-408	LIMITORQUE	SMB-000	M	NO
1-409	LIMITORQUE	SMB-000	M	NO
1-415	LIMITORQUE	SMB-000	H1	YES (T,R)
1-416	LIMITORQUE	SMB-000	H1	YES (T,R)
1-419	LIMITORQUE	SMB-00	H1	YES (R)
1-420	LIMITORQUE	SMB-00	H1	YES (R)
1-421	LIMITORQUE	SMB-00	H1	YES (R)
1-422	LIMITORQUE	SMB-00	H1	YES (R)
1-426	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
1-427	LIMITORQUE	SMB-000	H1	NO YES (T,H)
1-428	LIMITORQUE	SMB-000	H1	NO YES (T,H)
1-430	LIMITORQUE	SMB-00	H1	YES (R)
1-433	LIMITORQUE	SMB-00	H1	YES (R)
1-436	LINCOLN	213T	M	NO NO
1-445	LIMITORQUE	SMB-000	H1	YES (R)
1-446	LIMITORQUE	SMB-000	H1	YES (R)
1-449	CHROMALOX		H2	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			EQ TYPE	HARSH
1-450	CHROMALOX		H2	YES (R)
1-451	ALLIS CHALMERS	286T	M	NO
1-452	ALLIS CHALMERS	286T	M	NO
1-463	ALLIS CHALMERS		M	NO
1-464	ALLIS CHALMERS	182T	M	NO NO
1-583	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-584	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
1-667	GENERAL ELECTRIC	182T	M	NO NO
1-668	GENERAL ELECTRIC	182T	M	NO NO
1-670	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
1-671	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
1-672	LIMITORQUE	SMB-000	H1	YES (T,H,R)
1-673	LIMITORQUE	SMB-000	H1	YES (T,H,R)
1-763	LIMITORQUE	SMB-500	M	NO
1-764	LIMITORQUE	SMB-500	M	NO
1-871	LIMITORQUE	SB-00 O/N 3893758	H1	YES (R)
1-872	LIMITORQUE	SB-00 O/N 3893758	H1	YES (R)
1-896	SIEMENS-ALLIS	640	M	NO
1-898	DOERR	3N228E	M	NO
1E-0027	MCGRAW EDISON	PSD	M	NO NO
1E-0028	MCGRAW EDISON	PSD	M	NO NO
1E-0120	ALLIS CHALMERS	LA	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			EQ TYPE	HARSH
1E-0121	ALLIS CHALMERS	LA	M	NO
1E-0122	ALLIS CHALMERS	LA	M	NO
1E-0123	ALLIS CHALMERS	LA	M	NO
1E-0205	FOXBORO	BUILT PER SPEC	M	NO
1E-0206	FOXBORO	BUILT PER SPEC	M	NO
1E-0207	FOXBORO	BUILT PER SPEC	M	NO
1E-0208	FOXBORO	BUILT PER SPEC	M	NO
1E-0211	FOXBORO	BUILT PER SPEC	M	NO
1E-0212	FOXBORO	BUILT PER SPEC	M	NO
1E-0213	FOXBORO	BUILT PER SPEC	M	NO
1E-0214	FOXBORO	BUILT PER SPEC	M	NO
1E-0220	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0221	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0222	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0223	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0224	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0225	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0226	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0227	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0228	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0229	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0230	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0231	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0232	WESTINGHOUSE	BUILT PER SPEC	M	NO
1E-0233	WESTINGHOUSE	BUILT PER SPEC	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
1E-0242	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0243	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0269	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0270	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0272	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0273	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0274	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO NO
1E-0275	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO NO
1E-0326	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0327	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0328	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0329	GENERAL ELECTRIC	7700 SERIES	M	NO
1E-0330	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0331	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0332	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0333	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0334	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0335	GENERAL ELECTRIC	7700 SERIES	M	NO NO
1E-0336	GENERAL ELECTRIC	7700 SERIES	M	NO
1E-0480	WESTERN ENGINE	BUILT PER SPEC	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1	
			FQ TYPE	HARSH
1E-0483	BARNES	BUILT PER SPEC	M	NO
1E-0484	BARNES	BUILT PER SPEC	M	NO
1E-0485	BARNES	BUILT PER SPEC	M	NO
1E-0486	COMSTOCK	BUILT PER SPEC	M	NO
1E-0488	BARNES	BUILT PER SPEC	M	NO
1E-0490	WESTERN ENGINE	BUILT PER SPEC	M	NO
1E-0493	BARNES	BUILT PER SPEC	M	NO
1E-0494	BARNES	BUILT PER SPEC	M	NO
1E-0495	BARNES	BUILT PER SPEC	M	NO
1E-0496	COMSTOCK	BUILT PER SPEC	M	NO
1E-0498	BARNES	BUILT PER SPEC	M	NO
1E-0519	COMMONWEALTH	BUILT PER SPEC	M	NO
1E-0520	COMMONWEALTH	BUILT PER SPEC	M	NO NO
1E-0521	COMMONWEALTH	BUILT PER SPEC	M	NO NO
1E-0522	COMMONWEALTH	BUILT PER SPEC	M	NO NO
1E-0523	COMMONWEALTH	BUILT PER SPEC	M	NO NO
1E-0524	COMMONWEALTH	BUILT PER SPEC	M	NO
1E-0526	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
1E-0529	SOLIDSTATE CONTROLS	SV12050	M	NO
1E-0530	ALLEN BRADLEY	BUILT PER SPEC	M	NO NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
1E-0534	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
1E-0535	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
1E-0536	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
1E-0537	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
1E-0539	C & D	LCU-25	M	NO NO
1E-0540	SORGEL ELECTRIC	75T3H	M	NO NO
1E-0541	COMMONWEALTH	BUILT PER SPEC	M	NO
1E-0542	COMMONWEALTH	BUILT PER SPEC	M	NO
1E-0544	SOLIDSTATE CONTROLS	SV12050	M	NO
1E-0562	BARNES	BUILT PER SPEC	M	YES (T,H)
1E-0564	D. G. O'BRIEN	SEE OTHER SHEETS FOR THIS MANUFACTURER	H2	YES (T,P,H,CS,R)
1E-0575	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0576	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
1E-0577	FOXBORO	BUILT PER SPEC	M	NO
1E-0578	FOXBORO	BUILT PER SPEC	M	NO
1E-0579	FOXBORO	BUILT PER SPEC	M	NO
1E-0580	FOXBORO	BUILT PER SPEC	M	NO
1E-0633	SQUARE D	=4	M	NO
1E-0634	SQUARE D	=4	M	NO
1E-0635	SQUARE D	=4	M	NO
1E-0662	SQUARE D	4	M	NO NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
11267	BARTON	290A	M	NO
11268	BARTON	290A	M	NO
134-031	WESTERN ENGINE		M	NO
134-032	WESTERN ENGINE		M	NO
15254	FOXBORO	RDF STANDARD	M	NO
15255	FOXBORO	RDF STANDARD	M	NO
15256	FOXBORO	RDF STANDARD	M	NO
15257	FOXBORO	RDF STANDARD	M	NO
15258	FOXBORO	RDF STANDARD	M	NO
15259	FOXBORO	RDF STANDARD	M	NO
15263	FOXBORO	RDF STANDARD	M	NO
15264	FOXBORO	RDF STANDARD	H3	YES (T,H)
15265	FOXBORO	RDF STANDARD	M	NO
15266	FOXBORO	RDF STANDARD	M	NO
15267	FOXBORO	RDF STANDARD	M	NO
15268	FOXBORO	RDF STANDARD	M	NO
15269	FOXBORO	RDF STANDARD	M	NO
15272	FOXBORO	RDF STANDARD	M	NO
15273	FOXBORO	RDF STANDARD	H3	YES (T,H)
15274	FOXBORO	RDF STANDARD	M	NO
15275	FOXBORO	RDF STANDARD	M	NO
15276	FOXBORO	RDF STANDARD	M	NO
15277	FOXBORO	RDF STANDARD	M	NO
15279	FOXBORO	RDF STANDARD	H3	YES (T,H)
15280	FOXBORO	RDF STANDARD	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE F-1 EQ TYPE	HARSH
15281	FOXBORO	RDF STANDARD	M	NO
15282	FOXBORO	RDF STANDARD	M	NO
15283	FOXBORO	RDF STANDARD	M	NO
15284	FOXBORO	RDF STANDARD	M	NO
15285	FOXBORO	RDF STANDARD	M	NO
15286	FOXBORO	RDF STANDARD	M	NO
15302	CONAX	2323-9708-01	H1	YES (T,P,H,R,CS)
16073	MERCOID	DA 7021-804	M	NO
16075	MERCOID	DA 7021-804	M	NO
16085	ASHCROFT	4410A31-02L	M	NO
16114	ASHCROFT	B4208/0-20	M	NO
16195	PENN	P70LB-6	M	YES (T,H)
16196	PENN	P70LB-6	M	YES (T,H)
16197	PENN	P70AA-118	M	YES (T,H)
16198	PENN	P70AA-118	M	YES (T,H)
16345	PENN	P70LB-6	M	YES (T,H)
16353	PENN	P70LB-6	M	YES (T,H)
16358	UNITED ELECTRIC	888	M	NO
16359	UNITED ELECTRIC	888	M	NO
16361	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (T,H,R)
16362	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (T,H,R)
16363	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (R)
16364	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (R)
16365	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
16366	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
16367	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
16368	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
16369	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (T,H,R)
16370	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (T,H,R)
16371	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (R)
16372	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (R)
16373	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
16374	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
16375	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
16376	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
16377	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
16378	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
1639801	FENWAL	18000-0	H2	YES (R)
1639802	FENWAL	18000-0	H2	YES (R)
1639901	FENWAL	18000-0	H2	YES (R)
1639902	FENWAL	18000-0	H2	YES (R)
16416	BARTON	289A	H2	YES (R)
16417	BARTON	289A	H2	YES (R)
16427	BARTON	288A	H2	YES (R)
16428	BARTON	288A	H2	YES (R)
16472	DWYER	1638-1	M	NO
16473	DWYER	1638-1	M	NO
16474	DWYER	1638-1	M	NO
16638	MAGNETROL	A-153-F-EP/VP-X-Y	O	YES (R,S)
16639	MAGNETROL	A-153-F-EP/VP-X-Y	O	YES (R,S)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
1669301	MAGNETROL	A-153-FXEP/VP-XY-TDM	0	YES (R,S)
1669302	MAGNETROL	A-153-FXEP/VP-XY-TDM	0	YES (R,S)
1669401	MAGNETROL	A-153-FXEP/VP-XY-TDM	0	YES (R,S)
1669402	MAGNETROL	A-153-FXEP/VP-XY-TDM	0	YES (R,S)
16721	MAGNETROL	B730	H2	YES (R)
16722	MAGNETROL	B730	H2	YES (R)
16723	MAGNETROL	B730	H2	YES (R)
16724	MAGNETROL	B730	H2	YES (R)
16725	MAGNETROL	B730	H2	YES (R)
16937	ASHCROFT	B4208/0-20	M	NO
18319	FLUID COMPONENTS INC	FR78-4	M	NO
18320	FLUID COMPONENTS INC	FR70	M	NO
19432	WESTINGHOUSE	OT2S01	M	NO
19433	WESTINGHOUSE	OT2	M	NO
19434	WESTINGHOUSE	OT2	M	NO
19435	WESTINGHOUSE	OT2	M	NO
19436	WESTINGHOUSE	OT2	M	NO
19437	WESTINGHOUSE	OT2	M	NO
19474	WESTINGHOUSE	OT2B1M	M	NO
19526	WESTINGHOUSE	OT2	M	NO
19527	WESTINGHOUSE	OT2	M	NO
19528	WESTINGHOUSE	OT2T	M	NO
19529	WESTINGHOUSE	OT2	M	NO
19530	ELECTRO-SWITCH	20K0090453-034	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
19531	ELECTRO-SWITCH	20K0090453-034	M	NO
19565	WESTINGHOUSE	OT2	M	NO
19566	WESTINGHOUSE	OT2	M	NO
19623	WESTINGHOUSE	PB1	O	YES (R)
1962301	WESTINGHOUSE	PB1XPC	O	YES (R)
19624	WESTINGHOUSE	PB1	O	YES (R)
1962401	WESTINGHOUSE	PB1XPC	O	YES (R)
19651	ELECTRO-SWITCH	SERIES 20K	M	NO
19652	ELECTRO-SWITCH	SERIES 20K	M	NO
19653	ELECTRO-SWITCH	SERIES 20K	M	NO
19654	ELECTRO-SWITCH	SERIES 20K	M	NO
21038	FOXBORO	N-E11GH-HIM2-E	H1	YES (T,P,H,CS,R)
21077	FOXBORO	N-E11GH-HIM2-E	H1	YES (T,P,H,CS,R)
21079 =	FOXBORO	N-E11GM-HI1-E	H1	YES (T,P,H,CS,R)
21080 =	FOXBORO	N-E11GM-HI1-E	H1	YES (T,P,H,CS,R)
21081 =	FOXBORO	N-E11GM-HI1-E	H1	YES (T,P,H,CS,R)
21082 =	FOXBORO	N-E11GM-HI1-E	H1	YES (T,P,H,CS,R)
21084 =	FOXBORO	N-E11GM-HI1-E	H1	YES (R)
21085 =	FOXBORO	N-E11GM-HI1-E	H1	YES (R)
21094	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)
21095	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)
21096	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)
21097	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)
21098	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)
21099	FOXBORO	N-E11GM-HI1-E	H1	YES (T,H)

TABLE F-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
21100 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21101 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21102 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21114	FOXBORO	N-E11GM-HIDL-E	H1	YES (R)
21115	FOXBORO	N-E11GM-HIDL-E	H1	YES (R)
21117	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21118	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21119	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
21132	ROSEMOUNT	1152GP7022PB	H2	YES (R)
21133	ROSEMOUNT	1152GP7022PB	H2	YES (R)
23001	ROSEMOUNT	1153006	H1	YES (T, P, H, CS, R) YES (R)
2300110	CONAX	N-11006-35	H1	YES (T, P, H, CS, R)
23002	ROSEMOUNT	1153006	H1	YES (T, P, H, CS, R) YES (R)
2300210	CONAX	N-11006-35	H1	YES (T, P, H, CS, R)
23005	ROSEMOUNT	1153006	H1	YES (T, P, H, CS, R) YES (R)
2300510	CONAX	N-11006-35	H1	YES (T, P, H, CS, R)
23007	ROSEMOUNT	1153006	H1	YES (T, P, H, CS, R) YES (R)
2300710	CONAX	N-11006-35	H1	YES (T, P, H, CS, R)
23010	ROSEMOUNT	1152	H2	NO
23012	ROSEMOUNT	1152	H2	NO
23030	FOXBORO	N-E13DM-HIHL-E	H1	YES (R)
23079	UNHOLTZ-DICKIE CORP	22CA-2TR	0	YES (T, P, H, R, CS)
23080	UNHOLTZ-DICKIE CORP	22CA-2TR	0	YES (T, P, H, R, CS)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
23081	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
23082	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
24023	BARTON	332/305/351	M	NO
24024	BARTON	332/305/351	M	NO
24025	BARTON	332/305/351	M	NO
24026	BARTON	332/305/351	M	NO
24027	BARTON	332/305/351	M	NO
24028	BARTON	332/305/351	M	NO
24029	BARTON	384	H2	YES (T,P,H,CS,R) YES (R)
24030 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
24031 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
24032 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
24038	BARTON	332/305/351	M	NO
24039	BARTON	332/305/351	M	NO
24040 =	FOXBORO	N-E11GM-HIB1-E	H1	YES (R)
24042	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24043	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24044	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24046	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24047	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24048	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
24062 =	BARTON	332	H2	YES (R)
24067	FOXBORO	N-E11GM-HIA1-E	H1	YES (R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
2407001	GEMS TLI TRANSAMERICA	XM-54852	H1	YES (T,P,H,R,CS)
2407002	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
2407003	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
2407101	GEMS TLI TRANSAMERICA	XM-54852	H1	YES (T,P,H,R,CS)
2407102	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
2407103	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
25019	COMSIP/DELPHI	III	M	NO
25020	COMSIP/DELPHI	III	M	NO
27096	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
27097	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
27098	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
27099	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
27100	FLUID COMPONENTS INC	FR78-4	M	NO
28107	COMSIP/DELPHI	III	M	NO
28108	COMSIP/DELPHI	III	M	NO
2906401	GENERAL ATOMICS	RD-23	H1	YES (T,P,H,R,CS)
2906501	GENERAL ATOMICS	RD-23	H1	YES (T,P,H,R,CS)
2907101	EBERLINE	SPING-4	M	NO
2907102	EBERLINE	CLI-1	M	NO
2907103	EBERLINE	CLI-1	M	NO
2907201	EBERLINE	SPING-4	M	NO
2907202	EBERLINE	CLI-1	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
2907203	EBERLINE	CLI-1	M	NO
3101501	NAMCO	EA 170-12100 & 11100	H2	YES (T,R)
3101502	NAMCO	EA 170-12100 & 11100	H2	YES (T,R)
3101601	NAMCO	EA 170-12100 & 11100	H2	YES (R)
3101602	NAMCO	EA 170-12100 & 11100	H2	YES (R)
3103802	BETTIS	RX 321	M	NO
3104002	BETTIS	RX 321	M	NO
3110901	NAMCO	EA 180	H1	YES (T,P,H,R,CS)
3110902	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
3111001	NAMCO	EA 180	H1	YES (T,P,H,R,CS)
3111002	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
3112301	NAMCO	EA 740-20100	H1	YES (T,H,R)
3112302	NAMCO	EA 740-20100	H1	YES (T,H,R)
3112401	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
3112402	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
3112410	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
3112411	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
3112501	NAMCO	EA 740-20100	H1	YES (T,H,R)
3112502	NAMCO	EA 740-20100	H1	YES (T,H,R)
3112601	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
3112602	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
3112610	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
3112611	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
3113201	NAMCO	D-2400X	H2	YES (R)
3113202	NAMCO	D-2400X	H2	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
3113301	NAMCO	D-2400X	H2	YES (R)
3113302	NAMCO	D-2400X	H2	YES (R)
3113401	NAMCO	D-2400X	H2	YES (R)
3113402	NAMCO	D-2400X	H2	YES (R)
3113501	NAMCO	D-2400X	H2	YES (R)
3113502	NAMCO	D-2400X	H2	YES (R)
3113601	NAMCO	D-2400X	H2	YES (R)
3113602	NAMCO	D-2400X	H2	YES (R)
3113701	NAMCO	D-2400X	H2	YES (R)
3113702	NAMCO	D-2400X	H2	YES (R)
3121601	NAMCO	D-2400X	H2	YES (R)
3121602	NAMCO	D-2400X	H2	YES (R)
3121701	NAMCO	D-2400X	H2	YES (R)
3121702	NAMCO	D-2400X	H2	YES (R)
3123101	NAMCO	EA-180	H1	YES (T,P,H,CS,R,S)
3123102	NAMCO	EA 180	H1	YES (T,P,H,CS,R,S)
3123110	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3123111	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3123201	NAMCO	EA-180	H1	YES (T,P,H,CS,R,S)
3123202	NAMCO	EA 180	H1	YES (T,P,H,CS,R,S)
3123210	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3123211	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3123301	NAMCO	EA-180	H1	YES (T,P,H,CS,R,S)
3123302	NAMCO	EA 180	H1	YES (T,P,H,CS,R,S)
3123310	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
3123311	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3123401	NAMCO	EA-180-32302	H1	YES (R)
3123402	NAMCO	EA-180-31302	H1	YES (R)
3125301	NAMCO	D-2400X	H2	YES (R)
3125302	NAMCO	D-2400X	H2	YES (R)
3125901	NAMCO	D-2400X	H2	YES (R)
3125902	NAMCO	D-2400X	H2	YES (R)
3126001	NAMCO	D-2400X	H2	YES (R)
3126002	NAMCO	D-2400X	H2	YES (R)
3126101	NAMCO	D-2400X	H2	YES (R)
3126102	NAMCO	D-2400X	H2	YES (R)
3126301 =	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3126302 =	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3126310	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3126311	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3126401 =	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3126402 =	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3126410	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3126411	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3126701 =	NAMCO	D-2400X	H2	YES (R)
3126702 =	NAMCO	D-2400X	H2	YES (R)
3126801 =	NAMCO	D-2400X	H2	YES (R)
3126802 =	NAMCO	D-2400X	H2	YES (R)
3127001	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3127002	NAMCO	EA-180	H1	YES (T,P,H,CS,R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
3127010	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3127011	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3127101	NAMCO	D-2400X	H2	YES (R)
3127102	NAMCO	D-2400X	H2	YES (R)
3127201	NAMCO	D-2400X	M	NO
3127202	NAMCO	D-2400X-2	M	NO
3127301	NAMCO	D-2400X	M	NO
3127302	NAMCO	D-2400X-2	M	NO
3129801	NAMCO	D-2400X	M	NO
3129802	NAMCO	D-2400X	M	NO
3130901 =	NAMCO	D-2400X-2	H2	YES (R)
3130902 =	NAMCO	D-2400X-2	H2	YES (R)
3133401	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3133402	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
3133410	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3133411	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
3133501	NAMCO	D-2400X	H2	YES (R)
3133502	NAMCO	D-2400X	H2	YES (R)
3133701	NAMCO	EA 740-20100	H1	YES (T,H,R)
3133702	NAMCO	EA 740-20100	H1	YES (T,H,R)
3133801	NAMCO	EA 740-20100	H1	YES (T,H,R)
3133802	NAMCO	EA 740-20100	H1	YES (T,H,R)
3138301 =	NAMCO	D-2400X	H2	YES (R)
3138302 =	NAMCO	D-2400X	H2	YES (R)
3138401 =	NAMCO	D-2400X	H2	YES (R)

TABLE E-1

PLANT ID	MANUFACTURER	MODEL NUMBER	E-1 EQ TYPE	HARSH
3138402 =	NAMCO	D-2400X	H2	YES (R)
3138501	NAMCO	D-2400X	H2	YES (R)
3138502 =	NAMCO	D-2400X	H2	YES (R)
3139301	NAMCO	D-2400X	H2	YES (R)
3139302	NAMCO	D-2400X	H2	YES (R)
3139401	NAMCO	D-2400X	H2	YES (R)
3139402	NAMCO	D-2400X	H2	YES (R)
3140601	NAMCO	D-2400X & D-2400X-5R	M	NO
3140602	NAMCO	D-2400X & D-2400X-5R	M	NO
3140701	NAMCO	D-2400X & D-2400X-5R	M	NO
3140702	NAMCO	D-2400X & D-2400X-5R	M	NO
3166701	NAMCO	EA 170	H3	YES (R)
3166702	NAMCO	EA 170	H3	YES (R)
3167901	NAMCO	EA 170	H3	YES (R)
3167902	NAMCO	EA 170	H3	YES (R)
3168201	NAMCO	EA 170	H3	YES (R)
3168202	NAMCO	EA 170	H3	YES (R)
3168301	NAMCO	EA 170	H3	YES (R)
3168302	NAMCO	EA 170	H3	YES (R)
3168401	NAMCO	EA 170	H3	YES (R)
3168402	NAMCO	EA 170	H3	YES (R)
3168501	NAMCO	EA 170	H3	YES (R)
3168502	NAMCO	EA 170	H3	YES (R)
3168801	NAMCO	EA 180	H1	YES (R)
3168802	NAMCO	EA 180	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 E0 TYPE	HARSH
3168901	NAMCO	EA 180	H1	YES (R)
3168902	NAMCO	EA 180	H1	YES (R)
32009	LIMITORQUE	SMB-00	M	NO
32010	LIMITORQUE	SMB-00	M	NO
32011	LIMITORQUE	SMB-000	M	NO
32012	LIMITORQUE	SMB-000	M	NO
32015	LIMITORQUE	SMB-2	H1	YES (T,R) YES (T,H)
32016	LIMITORQUE	SMB-2	H1	YES (R) NO
32027	LIMITORQUE	SMB-000	M	NO NO
32028	LIMITORQUE	SMB-000	M	NO NO
32029	LIMITORQUE	SMB-000	M	NO
32030	LIMITORQUE	SMB-000	M	NO
32031	LIMITORQUE	SMB-000	M	NO
32038	LIMITORQUE	SMB-000	H1	YES (T,R)
32039	LIMITORQUE	SMB-000	H1	YES (T,R)
32040	LIMITORQUE	SMB-000	M	NO NO
32058	LIMITORQUE	SMB-000	H1	YES (R)
32059	LIMITORQUE	SMB-000	H1	YES (R)
32060	LIMITORQUE	SMB-000	H1	YES (R)
32061	LIMITORQUE	SMB-000	H1	YES (R)
32066	LIMITORQUE	SMB-00	H1	YES (R)
32067	LIMITORQUE	SMB-00	H1	YES (R)
32068	LIMITORQUE	SMB-00	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 E0 TYPE	HARSH
32069 *	LIMITORQUE	SMB-00	H1	YES (R)
32077 *	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
32078 *	LIMITORQUE	SMB-000	H1	NO YES (T,H)
32079 *	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
32080 *	LIMITORQUE	SMB-000	H1	NO YES (T,H)
32082 *	LIMITORQUE	SMB-000	H1	YES (R)
32083	LIMITORQUE	SMB-00	M	NO
32084	LIMITORQUE	SMB-000	H1	YES (R)
32085	LIMITORQUE	SMB-000	H1	YES (R)
32086	LIMITORQUE	SMB-000	H1	YES (R)
32087	LIMITORQUE	SMB-000	H1	YES (R)
32088	LIMITORQUE	SMB-00	H3	YES (R)
32089	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32090	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32092 =	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32093	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32094 =	LIMITORQUE	SMB-00	H1	YES (R)
32095	LIMITORQUE	SMB-00	H1	YES (R)
32097 =	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32098	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
32100 *	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
32101 *	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
32102 = *	LIMITORQUE	SMB-1-40	H1	YES (R)
32103 = *	LIMITORQUE	SMB-1-40	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
32104 =	LIMITORQUE	SMB-00	H3	YES (R) NO
32105 =	LIMITORQUE	SMB-00	H3	YES (R) NO
32106	LIMITORQUE	SMB-00	H3	YES (R)
32107 =	LIMITORQUE	SMB-00	H3	YES (R)
32108 =	LIMITORQUE	SMB-00	H3	YES (R)
32109 = •	LIMITORQUE	SMB-0	H3	YES (R) NO
32110 = •	LIMITORQUE	SMB-0	H3	YES (R) NO
32111 =	LIMITORQUE	SMB-0	H1	YES (R)
32112 =	LIMITORQUE	SMB-0	H1	YES (R)
32113 = •	LIMITORQUE	SMB-1-40	H1	YES (R)
32114 = •	LIMITORQUE	SMB-1-40	H1	YES (R)
32115 = •	LIMITORQUE	SMB-0	H1	YES (R)
32119 =	LIMITORQUE	SMB-000	H1	YES (R)
32120 =	LIMITORQUE	SMB-000	H1	YES (R)
32121 •	LIMITORQUE	SMB-500	M	NO
32122 •	LIMITORQUE	SMB-500	M	NO
32124 = •	LIMITORQUE	SMB-00	H1	YES (T, P, H, CS, R)
32125	LIMITORQUE	SMB-00	H1	YES (R)
32126	LIMITORQUE	SMB-00	H1	YES (R)
32130 =	LIMITORQUE	SMB-00	H1	YES (R)
32131 =	LIMITORQUE	SMB-00	H1	YES (R)
32134 = •	LIMITORQUE	SMB-00	H3	YES (R)
32135 = •	LIMITORQUE	SMB-000	H3	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
32143	JOHNSON	V-5840	M	NO
32144	JOHNSON	V-5840	M	NO NO
32145	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
32146	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
32147	LIMITORQUE	SMB-000	H1	YES (T,H,R)
32148	LIMITORQUE	SMB-000	H1	YES (T,H,R)
32367	JOHNSON	M81ACA-3	M	NO
32368	JOHNSON	M81ACA-3	M	NO
32370	JOHNSON	M81ACA-3	M	NO NO
32371	JOHNSON	M81ACA-3	M	NO NO
32374	JOHNSON	M81ACA-3	M	NO
32375	JOHNSON	D-3200	U	YES (R) NO
32375-1	DWYER	3001	U	YES (R)
32375-2	JOHNSON	PC-4000	U	YES (R)
32375-3	JOHNSON	TZ5000-2	U	YES (R)
32376	JOHNSON	D-3200	U	YES (R)
32376-1	DWYER	3004	U	YES (R)
32376-2	JOHNSON	PC-4000	U	YES (R)
32376-3	JOHNSON	TZ5000-2	U	YES (R)
32377	JOHNSON	D-3200	U	YES (R)
32377-1	DWYER	3001	U	YES (R)
32377-2	JOHNSON	PC-4000	U	YES (R)
32377-3	JOHNSON	TZ5000-2	U	YES (R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
32378	JOHNSON	D-3200	U	YES (R)
32378-1	DWYER	3001	U	YES (R)
32378-2	JOHNSON	PC-4000	U	YES (R)
32378-3	JOHNSON	TZ5000-2	U	YES (R)
32379	JOHNSON	D-3200	U	YES (R)
32379-1	DWYER	3004	U	YES (R)
32379-2	JOHNSON	PC-4000	U	YES (R)
32379-3	JOHNSON	TZ5000-2	U	YES (R)
32380	JOHNSON	D-3200	U	YES (R)
32380-1	DWYER	3001	U	YES (R)
32380-2	JOHNSON	PC-4000	U	YES (R)
32380-3	JOHNSON	TZ5000-2	U	YES (R)
32382	JOHNSON	M81ACA-3	H2	YES (R)
3238201	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238202	ALLEN BRADLEY	802T-AT	H2	YES (R)
32383	JOHNSON	M81ACA-3	H2	YES (R)
3238301	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238302	ALLEN BRADLEY	802T-AT	H2	YES (R)
32384	JOHNSON	M81ACA-3	H2	YES (R)
3238401	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238402	ALLEN BRADLEY	802T-AT	H2	YES (R)
32385	JOHNSON	M81ACA-3	H2	YES (R)
3238501	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238502	ALLEN BRADLEY	802T-AT	H2	YES (R)
32386	JOHNSON	M81ACA-3	H2	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1, EQ TYPE	HARSH
3238601	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238602	ALLEN BRADLEY	802T-AT	H2	YES (R)
32387	JOHNSON	M81ACA-3	H2	YES (R)
3238701	ALLEN BRADLEY	802T-AT	H2	YES (R)
3238702	ALLEN BRADLEY	802T-AT	H2	YES (R)
32390	LIMITORQUE	SB-00 O/N 3893758	H1	YES (R)
32391	LIMITORQUE	SB-00 O/N 3893758	H1	YES (R)
32392	BARBER-COLMAN CO.	P/N MA-405-500	M	NO
32393	BARBER-COLMAN CO.	P/N MA-405-500-0-1	M	NO
33016	ASCO	8302C26RF	H3	YES (T,P,H,CS,R)
33017	ASCO	LB83146	H3	YES (R)
33024	ASCO	LB 83146	H3	YES (R)
33030	ASCO	8316854	H3	YES (T,P,H,CS,R)
33033	ASCO	8320A19	M	NO NO
33034	ASCO	8320A19	M	NO NO
33040	ASCO	8302C29	M	NO NO
33041	ASCO	8302C29	M	NO NO
33043	ASCO	8344862	M	NO
33044	ASCO	8344862	M	NO
33072	ASCO	LB 831654	H3	YES (R)
33074	ASCO	LB8300861RU	H3	YES (T,R)
33075	ASCO	LB8300861RU	H3	YES (T,R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
33077	ASCO	LB8300861RU	H3	YES (R)
33078	ASCO	LB8300861RU	H3	YES (R)
33080	ASCO	LB8300C58RU	H3	YES (T,R)
33081	ASCO	LB8300C58RU	H3	YES (T,R)
33082	ASCO	LB8300C58RU	H3	YES (R)
33083	ASCO	LB8300C58RU	H3	YES (R)
33086	ASCO	830281RF	M	NO
33087	ASCO	830281RF	M	NO
33092	VALCOR	V526-5295-34	H1	YES (T,P,H,R,CS)
33092	VALCOR	V526-5295-34	H1	YES (T,P,H,CS,R)
33093	ASCO	LB-83146	H3	YES (R)
33094	JOHNSON	V-24	M	NO NO
33120	ASCO	LB 83146	H3	YES (R)
33137	ASCO	LB-83146	H3	YES (R)
33143	ASCO	LB 83146	H3	YES (R)
33145	ASCO	LB 83146	H3	YES (R)
33146	ASCO	LB 83146	H3	YES (R)
33158	ASCO	8302C4	H3	YES (T,P,H,CS,R)
33159	ASCO	LB 83146	H3	YES (R)
33170	ASCO	LB-83146	H3	YES (R)
33171	ASCO	LB-83146	M	NO
33177	ASCO	WP-8015C21	H3	YES (T,H)
33178	ASCO	WP-8015C21	H3	YES (T,H)
33181	ASCO	WP-8015B31	H3	YES (T,H)
33182	ASCO	WP-8015B31	H3	YES (T,H)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
33183	ASCO	WP-8015831	H3	YES (T,H)
33184	ASCO	WP-8015831	H3	YES (T,H)
33185	ASCO	WP-8015C21	H3	YES (T,H)
33186	ASCO	WP-8015D21	H3	YES (T,H)
33192	ASCO	LB-831654	H3	YES (P)
33193	ASCO	831654	H3	YES (R)
33199	ASCO	831654	H3	YES (T,P,H,CS,R,S)
33200	ASCO	831654	H3	YES (T,P,H,CS,R,S)
33201	ASCO	831654	H3	YES (T,P,H,CS,R,S)
33244	ASCO	FT8320A101	H3	YES (R)
33245	ASCO	FT8320A101	H3	YES (R)
33248	ASCO	HTX83D2C26F	H3	YES (R)
33252	JOHNSON	V-24	H3	YES (R)
33254	JOHNSON	V-24	H3	YES (R)
33255	JOHNSON	V-24	H3	YES (R)
33256	ASCO	NP8320A176E	H1	YES (R)
33257	JOHNSON	V-24	H3	YES (R)
33259	JOHNSON	V-24	H3	YES (R)
33260	JOHNSON	V-24	M	NO
3326101	JOHNSON	V-24	M	NO
3326102	JOHNSON	V-24	M	NO
3326201	JOHNSON	V-24	H3	YES (R)
3326202	JOHNSON	V-24	H3	YES (R)
3326301	JOHNSON	V-24	M	NO
3326302	JOHNSON	V-24	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE F-1	
			EQ TYPE	HARSH
3326401	JOHNSON	V-24	M	NO
3326402	JOHNSON	V-24	M	NO
33267	JOHNSON	V-24	H3	YES (R)
3326801	JOHNSON	V-24	H3	YES (R)
3326802	JOHNSON	V-24	H3	YES (R)
3327001	JOHNSON	V-24	M	NO
3327002	JOHNSON	V-24	M	NO
33271	JOHNSON	V-24	H3	YES (R)
33274	ASCO	8316854	H3	YES (T,P,H,CS,R)
33287	ASCO	8211C328	M	NO NO
33288	ASCO	8211C328	M	NO NO
33289	JOHNSON	V-24	H3	YES (R)
33290	JOHNSON	V-24	H3	YES (R)
33291	ASCO	8302C26	O	YES (T,H,R)
33292	ASCO	8302C26	O	YES (T,H,R)
33302	ASCO	8211C328	M	NO
33303	ASCO	8211C328	H3	YES (R)
33304	ASCO	8211C328	H3	YES (R)
33307	ASCO	8211C328	M	NO
33308	ASCO	8211C328	M	NO
33313	ASCO	8211C328	M	NO
33323	ASCO	832318	M	NO NO
33324	ASCO	832318	M	NO
33325	ASCO	8302C26	H3	YES (R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
33326	ASCO	HTX8302C26F	H3	YES (R)
33327	VALCOR	V526-5295-33	H1	YES (R)
33327	VALCOR	V526-5295-33	H1	YES (R)
33328	JOHNSON	V-24	H3	YES (R)
33329	JOHNSON	V-24	H3	YES (R)
33330	ASCO	HTX8302B26F	H3	YES (R)
33331	ASCO	HTX8302B26F	H3	YES (R)
33366	JOHNSON	V-24	H3	YES (R)
3336701	JOHNSON	V-24-2	M	NO NO
3336702	JOHNSON	V-24-2	M	NO NO
3336801	JOHNSON	V-24-2	M	NO
3336802	JOHNSON	V-24-2	M	NO
3336901	JOHNSON	V-24-2	M	NO NO
3336902	JOHNSON	V-24-2	M	NO NO
3337001	JOHNSON	V-24-2	M	NO
3337002	JOHNSON	V-24-2	M	NO
33371	ASCO	8211C32B	M	NO
33372	ASCO	8211C32B	M	NO
33378	ASCO	HTX8302C26F	H3	YES (R)
33379	ASCO	HTX8302C26F	H3	YES (R)
33385	ASCO	8302C26F	H3	YES (R)
33386	ASCO	8302C26F	H3	YES (R)
33387	ASCO	8302C26F	H3	YES (R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
33416	ASCO	8302C4	M	NO
33417	ASCO	8302C4	M	NO
33418	ASCO	8302C4	H3	YES (R)
33419	ASCO	8302C4	M	NO
33420	ASCO	8302C4	M	NO
33421	ASCO	8302C4	H3	YES (R)
33422	ASCO	8302C4	H3	YES (R)
33425	ASCO	8302C4	H3	YES (R)
33426	ASCO	8302C4	H3	YES (R)
33427	ASCO	8302C4F	M	NO
33428	ASCO	8302C4F	H3	YES (R)
3343301	JOHNSON	V-24	H3	YES (T,H)
3343302	JOHNSON	V-24	H3	YES (T,H)
33434	JOHNSON	V-24	M	NO
33435	ASCO	HTX-8302C26F SOL. CAT. NO. 80173	M	NO
33436	JOHNSON	V-24	M	NO
33437	JOHNSON	V-24	M	NO
33438	JOHNSON	V-24	M	NO
33439	JOHNSON	V-24	M	NO
33440	JOHNSON	V-24	M	NO
33441	JOHNSON	V-24	M	NO NO
33442	JOHNSON	V-24	M	NO NO
33443	JOHNSON	V-24	M	NO
33444	JOHNSON	V-24	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
33445	JOHNSON	V-24	M	NO
33446	ASCO	HTX-8302C26F SOL. CAT. NO. 80173	M	NO
33447	JOHNSON	V-24	M	NO
33448	JOHNSON	V-24	M	NO
33449	ASCO	8302C4F	M	NO
33450	JOHNSON	V-24	M	NO
33451	JOHNSON	V-24	M	NO
33452	JOHNSON	V-24	H3	YES (T,H)
33453	JOHNSON	V-24	H3	YES (T,H)
33454	JOHNSON	V-24 SAV	M	NO
33455	JOHNSON	V-24 SAV	M	NO
33456	JOHNSON	V-24 SAV	M	NO NO
33457	JOHNSON	V-24 SAV	M	NO NO
33641	ASCO	8300C61	M	NO NO
33649	VALCOR	V526-6410-1	H1	YES (R)
33650	VALCOR	V526-6410-1	H1	YES (R)
33651	VALCOR	V526-5871-1	H1	YES (R)
33652	VALCOR	V573-5231-3	H1	YES (R)
33653	VALCOR	V573-5231-3	H1	YES (R)
33654	VALCOR	V526-5871-1	H1	YES (R)
33655	VALCOR	V526-5950-8	H1	YES (T,P,H,R,CS)
33656	VALCOR	V526-5871-1	H1	YES (R)
33657	VALCOR	V526-5871-1	H1	YES (R)

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
33658	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3365810	CONAX	SA11	H1	YES (T,P,H,R,CS)
33659	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3365910	CONAX	SA11	H1	YES (T,P,H,R,CS)
33660	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3366010	CONAX	SA11	H1	YES (T,P,H,R,CS)
33661	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3366110	CONAX	SA11	H1	YES (T,P,H,R,CS)
33662	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3366210	CONAX	SA11	H1	YES (T,P,H,R,CS)
33663	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
3366310	CONAX	SA11	H1	YES (T,P,H,R,CS)
33664	VALCOR	V526-5871-1	H1	YES (R)
33665	VALCOR	V526-5871-1	H1	YES (R)
33666	VALCOR	V526-6042-5	H1	NO
33667	VALCOR	V526-5295-38	H1	NO
33668	VALCOR	V526-5295-38	H1	YES (R)
33669	VALCOR	V526-5295-4	H1	YES (R)
33670	VALCOR	V526-5295-38	H1	YES (R)
33671	VALCOR	V526-5295-42	H1	YES (R)
33672	VALCOR	V526-5295-39	H1	YES (R)
33673	VALCOR	V526-5295-39	H1	YES (R)
33674	VALCOR	V526-5295-41	H1	NO
33675	VALCOR	V573-5231-4	H1	YES (R)
33676	VALCOR	V573-5231-4	H1	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
33677	VALCOR	V526-5295-38	M	NO
33678	VALCOR	V526-6042-4	H1	YES (R)
33679	VALCOR	V526-6042-2	H1	YES (R)
33680	VALCOR	V526-6042-4	H1	YES (R)
33681	VALCOR	V526-6042-2	H1	YES (R)
33682	VALCOR	V526-6042-4	H1	YES (R)
33683	VALCOR	V526-6042-2	H1	YES (R)
33684	VALCOR	V526-6600-1	H1	YES (R)
33685	VALCOR	V526-6600-1	H1	YES (R)
33686	VALCOR	V526-5631-6	H1	YES (R)
33687	VALCOR	V526-5631-6	H1	YES (R)
33688	VALCOR	V526-5295-31	H1	YES (R)
33690	VALCOR	V526-5295-31	H1	YES (R)
33692	VALCOR	V526-5292-26	M	NO
33693	VALCOR	V526-5292-26	M	NO
33695	ASCO	8320813	M	NO
33696	SKINNER	V52081100	M	NO
33697	SKINNER	V52081100	M	NO
33698	SKINNER	V52081100	M	NO
33699	SKINNER	V52081100	M	NO
33700	SKINNER	V52081100	M	NO
33702	SKINNER	V52081100	M	NO
33703	SKINNER	V52081100	M	NO
33704	SKINNER	V52081100	M	NO
33705	SKINNER	V52081100	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
33707	ALCO	240RA9T7T	M	YES (H,T)
33709	ASCO	8320B13	M	NO
33710	ASCO	8320A185	H3	YES (R)
33713	ALCO	240RA9T7T	M	YES (H,T)
33714	SKINNER	R2HLX28	M	NO
33715	SKINNER	R2HLX28	M	NO
33716	ASCO	JVA212-631-4RU	H3	YES (R)
33717	ASCO	NP831655E	H1	YES (R)
33718	ASCO	JVA212-631-4RU	H3	YES (R)
33719	ASCO	NP831655E	H1	YES (R)
3400601 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
3400602	ALLEN BRADLEY	802T-AT	H2	YES (R)
3401001	NAMCO	EA 180-31302	H1	YES (R)
3401002	NAMCO	EA 180-32302	H1	YES (R)
3401102	ALLEN BRADLEY	802T-AT	M	NO
3401202	ALLEN BRADLEY	802T-AT	M	NO
3401301	NAMCO	EA 180-31302	H1	YES (R)
3401302	NAMCO	EA 180-32302	H1	YES (R)
3401402	NAMCO	EA-180-31302	H1	YES (R)
3401502	NAMCO	EA-180-31302	H1	YES (R)
3403301 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
3403302 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
3403901	ALLEN BRADLEY	802T-AT	H2	YES (R)
3403902	ALLEN BRADLEY	802T-AT	H2	YES (R)
3404001	ALLEN BRADLEY	802T-AT	H2	YES (R)

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
3404002	ALLEN BRADLEY	802T-AT	H2	YES (R)
35073	GEMS TLI TRANSAMERICA	RE-36562	H1	NO
35074	GEMS TLI TRANSAMERICA	RE-36562	H1	NO
41000	WESTINGHOUSE	VX-252/HX-252	M	NO
4131703	WESTINGHOUSE	VX-252	M	NO
4131704	WESTINGHOUSE	VX-252	M	NO
41615	COMSIP/DELPHI	III	M	NO
41616	COMSIP/DELPHI	III	M	NO
42A/1-116	GENERAL ELECTRIC	7700 SERIES	M	NO
42A/1-118	GENERAL ELECTRIC	7700 SERIES	M	NO
42AX/1-131	CLARK	PM-5U4-2	M	NO
42AX/1-136	GENERAL ELECTRIC	CR120802222	M	NO
42AX/1-164	CLARK	PM	M	NO
42AX/1-183	GENERAL ELECTRIC	CR120802222	M	NO
42AX/1-201	CLARK	PM	M	NO
42AX/1-211	CLARK	PM	M	NO
42AX/1-298	CLARK	PM 5U4+2	M	NO
42AX/1-299	GENERAL ELECTRIC	CR120802222	M	NO
42AX/1-583	CLARK	PM 5U4	M	NO
42AX/1-584	GENERAL ELECTRIC	CR120802222	M	NO
42AX/1-601	CLARK	PM-5U4-2	M	NO
42AX/1-602	CLARK	PM-5U4-2 AND 5U2	M	NO
42X/1-126	CLARK	5U4-2-76	M	NO
42X/1-144	CLARK	PM	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
42X/1-667	CLARK	PM	M	NO
42X2/1-668	CLARK	PM	M	NO
42597	FOXBORO	N226S	M	NO
42598	FOXBORO	N226S	M	NO
42599	FOXBORO	N-226S	M	NO
42600	FOXBORO	N-226S	M	NO
44301	MICRO SWITCH	907AUS	M	NO
44302	MICRO SWITCH	907AUS	M	NO
4492301	WESTINGHOUSE	1589196	M	NO
4492302	WESTINGHOUSE	1589195	M	NO
4492401	WESTINGHOUSE	1589195	M	NO
4492402	WESTINGHOUSE	1589196	M	NO
4492501	WESTINGHOUSE	1589196	M	NO
4492502	WESTINGHOUSE	1589196	M	NO
4492601	WESTINGHOUSE	1589196	M	NO
4492602	WESTINGHOUSE	1589196	M	NO
4492701	WESTINGHOUSE	1589196	M	NO
4492702	WESTINGHOUSE	1589196	M	NO
4492801	WESTINGHOUSE	1589196	M	NO
4492802	WESTINGHOUSE	1589195	M	NO
46000	WESTINGHOUSE	OT2/W-2	M	NO
46322	WESTINGHOUSE	OT2	M	NO
46323	WESTINGHOUSE	OT2	M	NO
4680402	WESTINGHOUSE	1589184	M	NO
46964	WESTINGHOUSE	OT-281	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
4696401	WESTINGHOUSE	1589196	M	NO
4696402	WESTINGHOUSE	1589196	M	NO
4696403	WESTINGHOUSE	1589196	M	NO
46965	WESTINGHOUSE	OT-2	M	NO
4696501	WESTINGHOUSE	1589196	M	NO
4696502	WESTINGHOUSE	1589196	M	NO
4696503	WESTINGHOUSE	1589196	M	NO
46966	WESTINGHOUSE	OT-2Z6	M	NO
4696601	WESTINGHOUSE	1589196	M	NO
4696602	WESTINGHOUSE	1589196	M	NO
46967	WESTINGHOUSE	OT-2Z6	M	NO
4696701	WESTINGHOUSE	1589196	M	NO
4696702	WESTINGHOUSE	1589196	M	NO
46968	WESTINGHOUSE	OT-2	M	NO
4696801	WESTINGHOUSE	1589196	M	NO
4696802	WESTINGHOUSE	1589196	M	NO
46969	WESTINGHOUSE	OT-2V6	M	NO
4696901	WESTINGHOUSE	1589196	M	NO
4696902	WESTINGHOUSE	1589196	M	NO
46970	WESTINGHOUSE	OT-2V6	M	NO
4697001	WESTINGHOUSE	1589196	M	NO
4697002	WESTINGHOUSE	1589196	M	NO
46971	WESTINGHOUSE	OT-2	M	NO
46972	WESTINGHOUSE	OT-2	M	NO
46975	WESTINGHOUSE	OT-2A	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
4697501	WESTINGHOUSE	1589196	M	NO
4697502	WESTINGHOUSE	1589195	M	NO
46976	WESTINGHOUSE	OT-2A	M	NO
4697601	WESTINGHOUSE	1589195	M	NO
4697602	WESTINGHOUSE	1589196	M	NO
4698601	WESTINGHOUSE	OT-281	M	NO
4698602	WESTINGHOUSE	OT-281	M	NO
4698701	WESTINGHOUSE	OT-281	M	NO
4698702	WESTINGHOUSE	OT-281	M	NO
46988	WESTINGHOUSE	OT-2	M	NO
4698801	WESTINGHOUSE	1589195	M	NO
4698802	WESTINGHOUSE	1589195	M	NO
46989	WESTINGHOUSE	OT-2	M	NO
4698901	WESTINGHOUSE	1589195	M	NO
4698902	WESTINGHOUSE	1589195	M	NO
46990	WESTINGHOUSE	OT-2	M	NO
4699001	WESTINGHOUSE	1589195	M	NO
4699002	WESTINGHOUSE	1589195	M	NO
46991	WESTINGHOUSE	OT-2	M	NO
4699101	WESTINGHOUSE	1589195	M	NO
4699102	WESTINGHOUSE	1589195	M	NO
46992	WESTINGHOUSE	OT-2	M	NO
4699201	WESTINGHOUSE	1589195	M	NO
4699202	WESTINGHOUSE	1589195	M	NO
46993	WESTINGHOUSE	OT-2	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
4699301	WESTINGHOUSE	1589195	M	NO
4699302	WESTINGHOUSE	1589195	M	NO
46994	WESTINGHOUSE	OT-2S1	M	NO
4699401	WESTINGHOUSE	1589196	M	NO
4699402	WESTINGHOUSE	1589196	M	NO
46995	WESTINGHOUSE	OT-2S1	M	NO
4699501	WESTINGHOUSE	1589196	M	NO
4699502	WESTINGHOUSE	1589196	M	NO
46997	WESTINGHOUSE	OT-2	M	NO
4699701	WESTINGHOUSE	1589195	M	NO
4699702	WESTINGHOUSE	1589195	M	NO
4699703	WESTINGHOUSE	1589195	M	NO
4699704	WESTINGHOUSE	1589195	M	NO
4699705	WESTINGHOUSE	1589195	M	NO
4699706	WESTINGHOUSE	1589195	M	NO
46998	WESTINGHOUSE	OT-2	M	NO
4699801	WESTINGHOUSE	1589195	M	NO
4699802	WESTINGHOUSE	1589195	M	NO
4699803	WESTINGHOUSE	1589195	M	NO
4699804	WESTINGHOUSE	1589195	M	NO
4699805	WESTINGHOUSE	1589195	M	NO
4699806	WESTINGHOUSE	1589195	M	NO
4810401	FOXBORO	2A1-12V	M	NO
48106	FOXBORO	N-2AX-D10	M	NO
4811301	FOXBORO	N-2A0-VAI	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
4812101	FOXBORO	N-2AI-12V	M	NO
48123	FOXBORO	N-2AX-DIO	M	NO
48127	FOXBORO	N-2AX-DIO	M	NO
48128	FOXBORO	N-2AX-DIO	M	NO
4813801	FOXBORO	N-2AI-P2V	M	NO
48143	GENERAL ATOMICS	RP-2C	M	NO
48144	GENERAL ATOMICS	RP-2C	M	NO
4840209	FOXBORO	62H-2E	M	NO
4840215	FOXBORO	62H-2F	M	NO
48997	GENERAL ATOMICS	RP-23	M	NO
48998	GENERAL ATOMICS	RP-23	M	NO
5163301	WESTINGHOUSE	OT-2A	M	NO
5163302	WESTINGHOUSE	1589196	M	NO
5163303	WESTINGHOUSE	1589196	M	NO
5163304	WESTINGHOUSE	OT-2A	M	NO
5163305	WESTINGHOUSE	1589196	M	NO
5163306	WESTINGHOUSE	1589196	M	NO
5163307	WESTINGHOUSE	OT-2A	M	NO
5163308	WESTINGHOUSE	1589196	M	NO
5163309	WESTINGHOUSE	1589196	M	NO
5163310	WESTINGHOUSE	OT-2A	M	NO
5163311	WESTINGHOUSE	1589196	M	NO
5163312	WESTINGHOUSE	1589196	M	NO
5163313	WESTINGHOUSE	OT-2A	M	NO
5163314	WESTINGHOUSE	1589196	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
5163315	WESTINGHOUSE	1589196	M	NO
5163316	WESTINGHOUSE	OT-2A	M	NO
5163317	WESTINGHOUSE	1589196	M	NO
5163318	WESTINGHOUSE	1589196	M	NO
5163319	WESTINGHOUSE	1589196	M	NO
5163320	WESTINGHOUSE	1589196	M	NO
5163321	WESTINGHOUSE	1589196	M	NO
5163322	WESTINGHOUSE	1589196	M	NO
5163323	WESTINGHOUSE	OT-2A	M	NO
5163324	WESTINGHOUSE	1589196	M	NO
5163325	WESTINGHOUSE	1589196	M	NO
5163326	WESTINGHOUSE	OT-2A	M	NO
5163327	WESTINGHOUSE	1589196	M	NO
5163328	WESTINGHOUSE	1589196	M	NO
5163329	WESTINGHOUSE	OT-2A	M	NO
5163330	WESTINGHOUSE	1589196	M	NO
5163331	WESTINGHOUSE	1589196	M	NO
5163333	WESTINGHOUSE	OT-2A	M	NO
5163334	WESTINGHOUSE	1589196	M	NO
5163335	WESTINGHOUSE	OT-2A	M	NO
5163336	WESTINGHOUSE	1589196	M	NO
5163337	WESTINGHOUSE	1589196	M	NO
5163338	WESTINGHOUSE	OT-2A	M	NO
5163339	WESTINGHOUSE	1589196	M	NO
5163340	WESTINGHOUSE	1589196	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
5163341	WESTINGHOUSE	OT-2A	M	NO
5163342	WESTINGHOUSE	1589196	M	NO
5163343	WESTINGHOUSE	1589196	M	NO
5163344	WESTINGHOUSE	OT-2A	M	NO
5163345	WESTINGHOUSE	1589196	M	NO
5163346	WESTINGHOUSE	1589196	M	NO
5163347	WESTINGHOUSE	OT-2A	M	NO
5163348	WESTINGHOUSE	1589196	M	NO
5163349	WESTINGHOUSE	1589196	M	NO
5163350	WESTINGHOUSE	OT-2A	M	NO
5163351	WESTINGHOUSE	1589196	M	NO
5163352	WESTINGHOUSE	1589196	M	NO
5163353	WESTINGHOUSE	OT-2A	M	NO
5163354	WESTINGHOUSE	1589196	M	NO
5163355	WESTINGHOUSE	1589196	M	NO
5163356	WESTINGHOUSE	1589196	M	NO
5163357	WESTINGHOUSE	1589196	M	NO
5163358	WESTINGHOUSE	1589196	M	NO
5163359	WESTINGHOUSE	1589196	M	NO
5163360	WESTINGHOUSE	1589196	M	NO
5163361	WESTINGHOUSE	1589196	M	NO
5163362	WESTINGHOUSE	OT-2A	M	NO
5163363	WESTINGHOUSE	1589196	M	NO
5163364	WESTINGHOUSE	1589196	M	NO
5163365	WESTINGHOUSE	OT-2A	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
5163366	WESTINGHOUSE	OT-2A	M	NO
5163367	WESTINGHOUSE	OT-2A	M	NO
5163368	WESTINGHOUSE	1589196	M	NO
5163369	WESTINGHOUSE	1589196	M	NO
5163370	WESTINGHOUSE	OT-2A	M	NO
5163371	WESTINGHOUSE	1589196	M	NO
5163372	WESTINGHOUSE	1589196	M	NO
5163373	WESTINGHOUSE	OT-2A	M	NO
5163374	WESTINGHOUSE	1589196	M	NO
5163375	WESTINGHOUSE	1589196	M	NO
5163376	WESTINGHOUSE	OT-2A	M	NO
5163377	WESTINGHOUSE	1589196	M	NO
5163378	WESTINGHOUSE	1589196	M	NO
5163379	WESTINGHOUSE	1589196	M	NO
5163380	WESTINGHOUSE	1589196	M	NO
5163381	WESTINGHOUSE	1589196	M	NO
5163382	WESTINGHOUSE	1589196	M	NO
5163383	WESTINGHOUSE	1589196	M	NO
5163384	WESTINGHOUSE	1589196	M	NO
5163385	WESTINGHOUSE	1589196	M	NO
5163401	WESTINGHOUSE	OT-2A	M	NO
5163402	WESTINGHOUSE	1589196	M	NO
5163403	WESTINGHOUSE	1589184	M	NO
5163404	WESTINGHOUSE	1589184	M	NO
5163405	WESTINGHOUSE	1589184	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
5163406	WESTINGHOUSE	OT-2A	M	NO
5163407	WESTINGHOUSE	1589184	M	NO
5163408	WESTINGHOUSE	1589184	M	NO
5163409	WESTINGHOUSE	1589184	M	NO
5163410	WESTINGHOUSE	1589184	M	NO
5163411	WESTINGHOUSE	OT-2A	M	NO
5163412	WESTINGHOUSE	1589184	M	NO
5163413	WESTINGHOUSE	1589184	M	NO
5163414	WESTINGHOUSE	1589184	M	NO
5163415	WESTINGHOUSE	1589184	M	NO
5163416	WESTINGHOUSE	OT-2A	M	NO
5163417	WESTINGHOUSE	1589184	M	NO
5163418	WESTINGHOUSE	1589184	M	NO
5163419	WESTINGHOUSE	1589184	M	NO
5163420	WESTINGHOUSE	1589184	M	NO
5163421	WESTINGHOUSE	OT-2A	M	NO
5163422	WESTINGHOUSE	1589184	M	NO
5163423	WESTINGHOUSE	1589184	M	NO
5163424	WESTINGHOUSE	OT-2A	M	NO
5163425	WESTINGHOUSE	1589184	M	NO
5163426	WESTINGHOUSE	1589184	M	NO
5163427	WESTINGHOUSE	OT-2A	M	NO
5163428	WESTINGHOUSE	1589184	M	NO
5163429	WESTINGHOUSE	1589184	M	NO
5163430	WESTINGHOUSE	OT-2A	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
5163431	WESTINGHOUSE	1589184	M	NO
5163432	WESTINGHOUSE	1589184	M	NO
5163438	FLUID COMPONENTS INC	FR78-4	M	NO
5163439	WESTINGHOUSE	1589184	M	NO
5163440	WESTINGHOUSE	OT-2A	M	NO
5163441	WESTINGHOUSE	1589184	M	NO
5163442	WESTINGHOUSE	1589184	M	NO
5163443	WESTINGHOUSE	1589184	M	NO
5163444	WESTINGHOUSE	1589184	M	NO
5163445	WESTINGHOUSE	1589184	M	NO
5163446	WESTINGHOUSE	1589184	M	NO
5163447	WESTINGHOUSE	1589184	M	NO
5163448	WESTINGHOUSE	1589184	M	NO
5163450	WESTINGHOUSE	1589184	M	NO
5163451	WESTINGHOUSE	1589184	M	NO
5163452	WESTINGHOUSE	1589184	M	NO
5163453	WESTINGHOUSE	1589184	M	NO
5163454	WESTINGHOUSE	1589184	M	NO
5163455	WESTINGHOUSE	1589184	M	NO
52A/1-024	MCGRAW EDISON	PSD	M	NO
52A/1-031	MCGRAW EDISON	PSD	M	NO
52A/15105	ALLIS CHALMERS	LA-600 EO-A	M	NO
52A/16105	ALLIS CHALMERS	LA-600 EO-A	M	NO
52HX/15108	CLARK	PM	M	NO
52HX/16108	CLARK	PM	M	NO

PLANT ID	MANUFACTURER	MODEL NUMBER	TABLE E-1 EQ TYPE	HARSH
52SA/1-502	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-506	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-507	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-508	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-605	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-606	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-608	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52SA/1-609	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
52X/15104	CLARK	PM 506	M	NO
52X/16104	CLARK	PM 506	M	NO
62-1/1-318	AGASTAT	2412	M	NO
62-2/1-318	AGASTAT	2412	M	NO
64001	TECHNICAL HEATERS	N/A	M	NO
6400101	ATHENA CONTROLS	74-6	M	NO
6400102	ATHENA CONTROLS	74-6	M	NO
6400103	ATHENA CONTROLS	74-6	M	NO
8102502	EBERLINE	CLI-1	H3	YES (T)
8102503	EBERLINE	CLI-1	H3	YES (T)
8102601	EBERLINE	DAM-4	H3	NO
8102602	EBERLINE	CLI-1	M	NO
8102603	EBERLINE	CLI-1	M	NO

TABLE E-1
FO
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
8102702	EBERLINE	CLI-1	H3	YES (T)
8102703	EBERLINE	CLI-1	H3	YES (T)
8102802	EBERLINE	CLI-1	H3	YES (T)
8102803	EBERLINE	CLI-1	H3	YES (T)
8102901	EBERLINE	DAM-4	M	NO
8102902	EBERLINE	CLI-1	M	NO
8102903	EBERLINE	CLI-1	M	NO
810300	EBERLINE	CLI-1	M	NO
8103001	EBERLINE	DAM-4	M	NO
8103002	EBERLINE	CLI-1	M	NO
8103101	EBERLINE	CT-1	M	NO
8103201	EBERLINE	CT-1	H3	YES (T)
8103301	ATHENA CONTROLS	P/N 74-6	M	NO
8103302	WESTINGHOUSE	1589196	M	NO
8103304	WESTINGHOUSE	1589196	M	NO
8103305	WESTINGHOUSE	1589196	M	NO
8103307	WESTINGHOUSE	1589196	M	NO
8103308	WESTINGHOUSE	1589196	M	NO
8103310	WESTINGHOUSE	1589196	M	NO
8103311	WESTINGHOUSE	1589196	M	NO
8103313	WESTINGHOUSE	1589196	M	NO
8103314	ATHENA CONTROLS	P/N 74-6	M	NO
8103315	WESTINGHOUSE	1589196	M	NO
8103317	WESTINGHOUSE	1589196	M	NO
8103318	WESTINGHOUSE	1589196	M	NO

TABLE E-1
EQ
TYPE

PLANT ID	MANUFACTURER	MODEL NUMBER	TYPE	HARSH
8103320	WESTINGHOUSE	1589196	M	NO
8103321	WESTINGHOUSE	1589196	M	NO
8103323	WESTINGHOUSE	1589196	M	NO
8103324	WESTINGHOUSE	1589196	M	NO
8103326	WESTINGHOUSE	1589196	M	NO
8103327	ATHENA CONTROLS	P/N 74-6	M	NO
8103328	WESTINGHOUSE	1589196	M	NO
8103330	WESTINGHOUSE	1589196	M	NO
8103331	ALLIED ELECTRONICS	703-0503	M	NO

01270 RECORDS RETRIEVED FOR THIS REQUEST

TABLE E-2ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY (per 10CFR50.49)SYSTEM SORT

NOTES ON USE:

1. Systems are arranged in alphabetical order, rather than numerical order. Within each system, equipment is sorted by Plant ID number.
2. There are two non-standard "Systems": Active Status Panel and Emergency Procedures. Equipment is listed under these systems if it is required by emergency procedures during a Loss of Coolant Accident or Main Steam Line Break accident or if it alarms on the Active Status Panel during these accidents.
3. Limitorque valve motor operators are listed twice: once by 5-digit instrument number and once by electrical motor number (1-xxx). No other equipment is listed twice.
4. If you do not find equipment listed in this appendix, then its EQ Type is "N".

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUXILIARY BUILDING AIR CONDITIONING	16197	PENN	P70AA-118	M	YES (T,H)
AUXILIARY BUILDING AIR CONDITIONING	16198	PENN	P70AA-118	M	YES (T,H)
AUX. BLDG. SPECIAL VENT	1-126	RELIANCE	284-T	H2	YES (R)
AUX. BLDG. SPECIAL VENT	1-144	RELIANCE	284-T	H2	YES (R)
AUX. BLDG. SPECIAL VENT	1-449	CHROMALOX		H2	YES (R)
AUX. BLDG. SPECIAL VENT	1-450	CHROMALOX		H2	YES (R)
AUX. BLDG. SPECIAL VENT	1E-0575	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	1E-0576	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	1E-0577	FOXBORO	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	1E-0578	FOXBORO	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	1E-0579	FOXBORO	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	1E-0580	FOXBORO	BUILT PER SPEC	M	NO
AUX. BLDG. SPECIAL VENT	15254	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15255	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15256	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15257	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15258	FOXBORO	RDF STANDARD	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. SPECIAL VENT	15259	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15263	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15264	FOXBORO	RDF STANDARD	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	15265	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15266	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15267	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15268	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15269	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15272	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15273	FOXBORO	RDF STANDARD	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	15274	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15275	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15276	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15277	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15279	FOXBORO	RDF STANDARD	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	15280	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15281	FOXBORO	RDF STANDARD	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. SPECIAL VENT	15282	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15283	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15284	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15285	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	15286	FOXBORO	RDF STANDARD	M	NO
AUX. BLDG. SPECIAL VENT	1639901	FENWAL	18000-0	H2	YES (R)
AUX. BLDG. SPECIAL VENT	1639902	FENWAL	18000-0	H2	YES (R)
AUX. BLDG. SPECIAL VENT	33252	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33254	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33255	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33256	ASCO	NP8320A176E	H1	YES (R)
AUX. BLDG. SPECIAL VENT	33257	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33259	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33260	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326101	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326102	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326201	JOHNSON	V-24	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. SPECIAL VENT	3326202	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	3326301	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326302	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326401	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3326402	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33267	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	3326801	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	3326802	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	3327001	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	3327002	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33271	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33328	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33329	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33366	JOHNSON	V-24	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33416	ASCO	830204	M	NO
AUX. BLDG. SPECIAL VENT	33417	ASCO	830204	M	NO
AUX. BLDG. SPECIAL VENT	33418	ASCO	830204	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. SPECIAL VENT	33419	ASCO	8302C4	M	NO
AUX. BLDG. SPECIAL VENT	33420	ASCO	8302C4	M	NO
AUX. BLDG. SPECIAL VENT	33421	ASCO	8302C4	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33422	ASCO	8302C4	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33425	ASCO	8302C4	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33426	ASCO	8302C4	H3	YES (R)
AUX. BLDG. SPECIAL VENT	33427	ASCO	8302C4F	M	NO
AUX. BLDG. SPECIAL VENT	33428	ASCO	8302C4F	H3	YES (R)
AUX. BLDG. SPECIAL VENT	3343301	JOHNSON	V-24	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	3343302	JOHNSON	V-24	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	33434	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33435	ASCO	HTX-8302C26F SOL. CAT. NO. 80173	M	NO
AUX. BLDG. SPECIAL VENT	33436	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33437	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33438	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33439	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33440	JOHNSON	V-24	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. SPECIAL VENT	33441	JOHNSON	V-24	M	NO NO
AUX. BLDG. SPECIAL VENT	33442	JOHNSON	V-24	M	NO NO
AUX. BLDG. SPECIAL VENT	33443	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33444	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33445	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33446	ASCO	HTX-8302C26F SOL. CAT. NO. 80173	M	NO
AUX. BLDG. SPECIAL VENT	33447	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33448	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33449	ASCO	8302C4F	M	NO
AUX. BLDG. SPECIAL VENT	33450	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33451	JOHNSON	V-24	M	NO
AUX. BLDG. SPECIAL VENT	33452	JOHNSON	V-24	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	33453	JOHNSON	V-24	H3	YES (T,H)
AUX. BLDG. SPECIAL VENT	3401001	NAMCO	EA 180-31302	H1	YES (R)
AUX. BLDG. SPECIAL VENT	3401002	NAMCO	EA 180-32302	H1	YES (R)
AUX. BLDG. SPECIAL VENT	3401301	NAMCO	EA 180-31302	H1	YES (R)
AUX. BLDG. SPECIAL VENT	3401302	NAMCO	EA 180-32302	H1	YES (R)

TABLE E-2

<u>SYSTEM</u>	<u>PLANT ID</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>	<u>EQ TYPE</u>	<u>HARSH</u>
AUX. BLDG. SPECIAL VENT	3401402	NAMCO	EA-180-31302	H1	YES (R)
AUX. BLDG. SPECIAL VENT	3401502	NAMCO	EA-180-31302	H1	YES (R)
AUX. BLDG. VENT	1-131	LOUIS ALLIS	R184T	M	NO
AUX. BLDG. VENT	1-136	LOUIS ALLIS	R184T	M	NO
AUX. BLDG. VENT	1-164	US ELECTRIC	213T	M	NO
AUX. BLDG. VENT	1-183	US ELECTRIC	213T	M	NO
AUX. BLDG. VENT	1-298	RELIANCE	SPECIAL	H1	YES (R)
AUX. BLDG. VENT	1-299	RELIANCE	SPECIAL	H1	YES (R)
AUXILIARY BUILDING VENTILATION	16345	PENN	P70LB-6	M	YES (T, H)
AUXILIARY BUILDING VENTILATION	16353	PENN	P70LB-6	M	YES (T, H)
AUXILIARY BUILDING VENTILATION	16473	DWYER	1638-1	M	NO
AUX. BLDG. VENT	19526	WESTINGHOUSE	OT2	M	NO
AUX. BLDG. VENT	19527	WESTINGHOUSE	OT2	M	NO
AUX. BLDG. VENT	19528	WESTINGHOUSE	OT2T	M	NO
AUX. BLDG. VENT	19529	WESTINGHOUSE	OT2	M	NO
AUXILIARY BUILDING VENTILATION	32392	BARBER-COLMAN CO.	P/N MA-405-500	M	NO
AUXILIARY BUILDING VENTILATION	32393	BARBER-COLMAN CO.	P/N MA-405-500-0-1	M	NO
AUX. BLDG. VENT	33302	ASCO	8211C328	M	NO
AUX. BLDG. VENT	33303	ASCO	8211C328	H3	YES (R)
AUX. BLDG. VENT	33304	ASCO	8211C328	H3	YES (R)
AUX. BLDG. VENT	33307	ASCO	8211C328	M	NO
AUX. BLDG. VENT	33308	ASCO	8211C328	M	NO

TABLE F-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUX. BLDG. VENT	33313	ASCO	8211C32B	M	NO
AUXILIARY BUILDING VENTILATION	33707	ALCO	240RA9T7T	M	YES (H,T)
AUXILIARY BUILDING VENTILATION	33713	ALCO	240RA9T7T	M	YES (H,T)
AUXILIARY BUILDING VENTILATION	5163379	WESTINGHOUSE	1589196	M	NO
AUXILIARY BUILDING VENTILATION	5163380	WESTINGHOUSE	1589196	M	NO
AUXILIARY BUILDING VENTILATION	5163381	WESTINGHOUSE	1589196	M	NO
AUXILIARY BUILDING VENTILATION	5163382	WESTINGHOUSE	1589196	M	NO
AUXILIARY BUILDING VENTILATION	5163441	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163442	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163443	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163444	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163445	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163446	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163447	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163448	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163450	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163451	WESTINGHOUSE	1589184	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
AUXILIARY BUILDING VENTILATION	5163452	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163453	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163454	WESTINGHOUSE	1589184	M	NO
AUXILIARY BUILDING VENTILATION	5163455	WESTINGHOUSE	1589184	M	NO
AUX. FEEDWATER	MS-103	WOODWARD GOVERNOR CO	PG	M	NO
AUX. FEEDWATER	1-024	ALLIS CHALMERS	507US	M	NO NO
AUX. FEEDWATER	1-031	ALLIS CHALMERS	507US	M	NO NO
AUX. FEEDWATER	1-033	LIMITORQUE	SMB-000	M	NO NO
AUX. FEEDWATER	1-036	WESTINGHOUSE	218A	M	NO NO
AUX. FEEDWATER	1-040	LIMITORQUE	SMB-000	M	NO NO
AUX. FEEDWATER	1-165	LIMITORQUE	SMB-000	M	NO NO
AUX. FEEDWATER	1-280	ALLIS CHALMERS	145T	M	NO NO
AUX. FEEDWATER	1-281	ALLIS CHALMERS	145T	M	NO NO
AUX. FEEDWATER	16085	ASHCROFT	4410A31-02L	M	NO
AUX. FEEDWATER	16114	ASHCROFT	B4208/0-20	M	NO
AUX. FEEDWATER	16937	ASHCROFT	B4208/0-20	M	NO
AUX. FEEDWATER	19474	WESTINGHOUSE	0T2B1M	M	NO
AUX. FEEDWATER	32027	LIMITORQUE	SMB-000	M	NO NO
AUX. FEEDWATER	32028	LIMITORQUE	SMB-000	M	NO NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	FQ TYPE	HARSH
AUX. FEEDWATER	32040	LIMITORQUE	SMB-000	M	NO NO
AUX. FEEDWATER	33323	ASCO	83231A	M	NO NO
AUX. FEEDWATER	33324	ASCO	83231A	M	NO
ACTIVE STATUS PANEL	3125301	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3130901 =	NAMCO	D-2400X-2	H2	YES (R)
ACTIVE STATUS PANEL	3238201	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	3238301	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	3238501	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	3238601	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	52SA/1-506	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52SA/1-507	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52SA/1-608	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52SA/1-609	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	3103802	BETTIS	RX 321	M	NO
ACTIVE STATUS PANEL	3104002	BETTIS	RX 321	M	NO
ACTIVE STATUS PANEL	52A/1-024	MCGRAW EDISON	PSD	M	NO
ACTIVE STATUS PANEL	16073	MERCOID	DA 7021-804	M	NO
ACTIVE STATUS PANEL	52A/1-031	MCGRAW EDISON	PSD	M	NO
ACTIVE STATUS PANEL	16075	MERCOID	DA 7021-804	M	NO
ACTIVE STATUS PANEL	3403901	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	3404001	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	3238701	ALLEN BRADLEY	802T-AT	H2	YES (R)

TABLE F-2

<u>SYSTEM</u>	<u>PLANT ID</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>	<u>EQ TYPE</u>	<u>HARSH</u>
ACTIVE STATUS PANEL	3238401 *	ALLEN BRADLEY	802T-AT	H2	YES (R)
ACTIVE STATUS PANEL	42AX/1-131	CLARK	PM-5U4-2	M	NO
ACTIVE STATUS PANEL	42AX/1-136	GENERAL ELECTRIC	CR120B02222	M	NO
ACTIVE STATUS PANEL	42AX/1-164	CLARK	PM	M	NO
ACTIVE STATUS PANEL	42AX/1-183	GENERAL ELECTRIC	CR120B02222	M	NO
ACTIVE STATUS PANEL	42A/1-116	GENERAL ELECTRIC	7700 SERIES	M	NO
ACTIVE STATUS PANEL	42A/1-118	GENERAL ELECTRIC	7700 SERIES	M	NO
ACTIVE STATUS PANEL	42AX/1-298	CLARK	PM 5U4+2	M	NO
ACTIVE STATUS PANEL	42AX/1-299	GENERAL ELECTRIC	CR120B02222	M	NO
ACTIVE STATUS PANEL	42AX/1-601	CLARK	PM-5U4-2	M	NO
ACTIVE STATUS PANEL	42AX/1-602	CLARK	PM-5U4-2AND 5U2	M	NO
ACTIVE STATUS PANEL	42AX/1-201	CLARK	PM	M	NO
ACTIVE STATUS PANEL	42AX/1-211	CLARK	PM	M	NO
ACTIVE STATUS PANEL	CCRAX-1-A	SQUARE D	TYPE CO-20	M	NO
ACTIVE STATUS PANEL	CCRAX-2-A	SQUARE D	TYPE CO-20	M	NO
ACTIVE STATUS PANEL	42AX/1-583	CLARK	PM 5U4	M	NO
ACTIVE STATUS PANEL	42AX/1-584	GENERAL ELECTRIC	CR120B02222	M	NO
ACTIVE STATUS PANEL	52A/16105	ALLIS CHALMERS	LA-600 FO-A	M	NO
ACTIVE STATUS PANEL	52X/16104	CLARK	PM 5U6	M	NO
ACTIVE STATUS PANEL	52A/15105	ALLIS CHALMERS	LA-600 FO-A	M	NO
ACTIVE STATUS PANEL	52X/15104	CLARK	PM 5U6	M	NO
ACTIVE STATUS PANEL	42X/1-667	CLARK	PM	M	NO
ACTIVE STATUS PANEL	42X2/1-668	CLARK	PM	M	NO
ACTIVE STATUS PANEL	3401102	ALLEN BRADLEY	802T-AT	M	NO
ACTIVE STATUS PANEL	3401202	ALLEN BRADLEY	802T-AT	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
ACTIVE STATUS PANEL	42X/1-126	CLARK	SU4-2-76	M	NO
ACTIVE STATUS PANEL	42X/1-144	CLARK	PM	M	NO
ACTIVE STATUS PANEL	52SA/1-508	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52SA/1-606	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	3139301	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	52SA/1-502	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52SA/1-605	GENERAL ELECTRIC	012881720 SB-1 GROUP 1	M	NO
ACTIVE STATUS PANEL	52HX/15108	CLARK	PM	M	NO
ACTIVE STATUS PANEL	52HX/16108	CLARK	PM	M	NO
ACTIVE STATUS PANEL	3130902 =	NAMCO	D-2400X-2	H2	YES (R)
ACTIVE STATUS PANEL	33248	ASCO	HTX8302C26F	H3	YES (R)
ACTIVE STATUS PANEL	3127202	NAMCO	D-2400X-2	M	NO
ACTIVE STATUS PANEL	3127302	NAMCO	D-2400X-2	M	NO
ACTIVE STATUS PANEL	3125302	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	32079 *	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
ACTIVE STATUS PANEL	3133402 *	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3133502	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3127002	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3127102	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3112502	NAMCO	EA 740-20100	H1	YES (T,H,R)
ACTIVE STATUS PANEL	3112602	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3112402	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3112302	NAMCO	EA 740-20100	H1	YES (T,H,R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
ACTIVE STATUS PANEL	3133702	NAMCO	EA 740-20100	H1	YES (T,H,R)
ACTIVE STATUS PANEL	3133802	NAMCO	EA 740-20100	H1	YES (T,H,R)
ACTIVE STATUS PANEL	3123402	NAMCO	EA-180-31302	H1	YES (R)
ACTIVE STATUS PANEL	3123102	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3123202	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3123302	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
ACTIVE STATUS PANEL	3125902	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3126002	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3129802	NAMCO	D-2400X	M	NO
ACTIVE STATUS PANEL	3126102	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3121602	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3121702	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113202	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113302	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113402	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113502	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113602	NAMCO	D-2400X	H2	YES (R)
ACTIVE STATUS PANEL	3113702	NAMCO	D-2400X	H2	YES (R)
BLOWDOWN TREATMENT	3127010	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
BLOWDOWN TREATMENT	3127011	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
BLOWDOWN TREATMENT	3133410	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
BLOWDOWN TREATMENT	3133411	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
COMPONENT COOLING	1-021	WESTINGHOUSE	504-US	M	NO
COMPONENT COOLING	1-028	WESTINGHOUSE	504-US	M	NO
COMPONENT COOLING	1-102	LIMITORQUE	SMB-000	H1	YES (R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
COMPONENT COOLING	1-359	LIMITORQUE	SMB-00	H3	YES (R)
COMPONENT COOLING	1-361	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	1-362	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	1-363	LIMITORQUE	SMB-000	H1	YES (P)
COMPONENT COOLING	1-364	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	1-365	LIMITORQUE	SMB-00	M	NO
COMPONENT COOLING	1-445	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	1-446	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	1-763	LIMITORQUE	SMB-500	M	NO
COMPONENT COOLING	1-764	LIMITORQUE	SMB-500	M	NO
COMPONENT COOLING	32083	LIMITORQUE	SMB-00	M	NO
COMPONENT COOLING	32084	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32085	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32086	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32087	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32088	LIMITORQUE	SMB-00	H3	YES (R)
COMPONENT COOLING	32119 =	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32120 =	LIMITORQUE	SMB-000	H1	YES (R)
COMPONENT COOLING	32121 *	LIMITORQUE	SMB-500	M	NO
COMPONENT COOLING	32122 *	LIMITORQUE	SMB-500	M	NO
COMPONENT COOLING	32082 *	LIMITORQUE	SMB-000	H1	YES (R)
CONTROL ROOM LOCATED EQUIPMENT	41000	WESTINGHOUSE	VX-252/HX-252	M	NO
CONTROL ROOM LOCATED EQUIPMENT	46000	WESTINGHOUSE	OT2/W-2	M	NO
CR-HVAC	1-265	RELIANCE	213-T	M	NO NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
CR-HVAC	1-266	RELIANCE	213-T	M	NO NO
CR-HVAC	1-315	TRANE		M	NO
CR-HVAC	1-316	TRANE		M	NO NO
CR-HVAC	1-317	US ELECTRIC	256T	M	NO
CR-HVAC	1-318	US ELECTRIC	256T	M	NO NO
CR-HVAC	1-463	ALLIS CHALMERS		M	NO
CR-HVAC	1-464	ALLIS CHALMERS	182T	M	NO NO
CRM-HVAC	1E-0562	BARNES	BUILT PER SPEC	M	YES (T,H)
CR-HVAC	32143	JOHNSON	V-5840	M	NO
CR-HVAC	32144	JOHNSON	V-5840	M	NO NO
CR-HVAC	32367	JOHNSON	M81ACA-3	M	NO
CR-HVAC	32368	JOHNSON	M81ACA-3	M	NO
CR-HVAC	32370	JOHNSON	M81ACA-3	M	NO NO
CR-HVAC	32371	JOHNSON	M81ACA-3	M	NO NO
CR-HVAC	32374	JOHNSON	M81ACA-3	M	NO
CR-HVAC	33094	JOHNSON	V-24	M	NO NO
CR-HVAC	33641	ASCO	8300C61	M	NO NO
CR-HVAC	62-1/1-318	AGASTAT	2412	M	NO
CR-HVAC	62-2/1-318	AGASTAT	2412	M	NO
CHEMICAL & VOL. CONTROL	1-342	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,P)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
CHEMICAL & VOL. CONTROL	1-353	LIMITORQUE	SMB-0	HL	YES (R)
CHEMICAL & VOL. CONTROL	24023	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24024	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24025	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24026	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24027	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24028	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24038	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	24039	BARTON	332/305/351	M	NO
CHEMICAL & VOL. CONTROL	3123101	NAMCO	EA-180	HL	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	3123110	CONAX	N-11001-31 N-21031	HL	YES (T,P,H,CS,P)
CHEMICAL & VOL. CONTROL	3123111	CONAX	N-11001-31 N-21031	HL	YES (T,P,H,CS,P)
CHEMICAL & VOL. CONTROL	3123201	NAMCO	EA-180	HL	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	3123210	CONAX	N-11001-31 N-21031	HL	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	3123211	CONAX	N-11001-31 N-21031	HL	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	3123301	NAMCO	EA-180	HL	YES (T,P,H,CS,P)
CHEMICAL & VOL. CONTROL	3123310	CONAX	N-11001-31 N-21031	HL	YES (T,P,H,CS,R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
CHEMICAL & VOL. CONTROL	3123311	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	3123401	NAMCO	EA-180-32302	H1	YES (R)
CHEMICAL AND VOLUME CONTROL	3168201	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168202	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168301	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168302	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168401	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168402	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168501	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168502	NAMCO	EA 170	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	3168801	NAMCO	EA 180	H1	YES (R)
CHEMICAL AND VOLUME CONTROL	3168802	NAMCO	EA 180	H1	YES (R)
CHEMICAL AND VOLUME CONTROL	3168901	NAMCO	FA 180	H1	YES (R)
CHEMICAL AND VOLUME CONTROL	3168902	NAMCO	EA 180	H1	YES (R)
CHEMICAL & VOL. CONTROL	33193	ASCO	831654	H3	YES (R)
CHEMICAL & VOL. CONTROL	33199	ASCO	831654	H3	YES (T,P,H,CS,R)
CHEMICAL & VOL. CONTROL	33200	ASCO	831654	H3	YES (T,P,H,CS,R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
CHEMICAL & VOL. CONTROL	33201	ASCO	831654	H3	YES (T,P,H,CS,R)
CHEMICAL AND VOLUME CONTROL	33716	ASCO	JVA212-631-4RU	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	33717	ASCO	NP831655E	H1	YES (R)
CHEMICAL AND VOLUME CONTROL	33718	ASCO	JVA212-631-4RU	H3	YES (R)
CHEMICAL AND VOLUME CONTROL	33719	ASCO	NP831655E	H1	YES (R)
CHEMICAL & VOL. CONTROL	32115 =	LIMITORQUE	SMB-0	H1	YES (R)
CHEMICAL & VOL. CONTROL	32124 =	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
CHEMICAL AND VOLUME CONTROL	46997	WESTINGHOUSE	OT-2	M	NO
CHEMICAL AND VOLUME CONTROL	4699701	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699702	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699703	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699704	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699705	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699706	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	46998	WESTINGHOUSE	OT-2	M	NO
CHEMICAL AND VOLUME CONTROL	4699801	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699802	WESTINGHOUSE	1589195	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
CHEMICAL AND VOLUME CONTROL	4699803	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699804	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699805	WESTINGHOUSE	1589195	M	NO
CHEMICAL AND VOLUME CONTROL	4699806	WESTINGHOUSE	1589195	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1-119	SORGEL ELECTRIC	75TEH	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1-125	C & D	ARR130HK150F3E	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1-143	C & D	ARR130HK150F3E	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1-153	SORGEL ELECTRIC	75TEH	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0519	COMMONWEALTH	BUILT PER SPEC	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0520	COMMONWEALTH	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0521	COMMONWEALTH	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0522	COMMONWEALTH	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0523	COMMONWEALTH	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0524	COMMONWEALTH	BUILT PER SPEC	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0526	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0529	SOLIDSTATE CONTROLS	SV12050	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0530	ALLEN BRADLEY	BUILT PER SPEC	M	NO NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0534	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0535	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0536	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0537	WESTINGHOUSE	BUILT PER SPEC	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0539	C & D	LCU-25	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0540	SORGEL ELECTRIC	75T3H	M	NO NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0541	COMMONWEALTH	BUILT PER SPEC	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0542	COMMONWEALTH	BUILT PER SPEC	M	NO
D.C. AUXILIARIES/ EMERGENCY A.C.	1E-0544	SOLIDSTATE CONTROLS	SV1205D	M	NO
DIESEL GENERATOR MECHANICAL	1-110	REDA PUMP	G443D35P-5	M	NO NO
DIESEL GENERATOR MECHANICAL	1-139	REDA PUMP	G443D35P-5	M	NO NO
DIESEL GENERATOR MECHANICAL	1-141	LINCOLN	213T	M	NO
DIESEL GENERATOR MECHANICAL	1-436	LINCOLN	213T	M	NO NO
DIESEL GENERATOR MECHANICAL	1E-0480	WESTERN ENGINE	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0483	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0484	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0485	BARNES	BUILT PER SPEC	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	FO TYPE	HARSH
DIESEL GENERATOR MECHANICAL	1E-0486	COMSTOCK	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0488	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0490	WESTERN ENGINE	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0493	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0494	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0495	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0496	COMSTOCK	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	1E-0498	BARNES	BUILT PER SPEC	M	NO
DIESEL GENERATOR MECHANICAL	11267	BARTON	290A	M	NO
DIESEL GENERATOR MECHANICAL	11268	BARTON	290A	M	NO
DIESEL GENERATOR MECHANICAL	134-031	WESTERN ENGINE		M	NO
DIESEL GENERATOR MECHANICAL	134-032	WESTERN ENGINE		M	NO
EMERGENCY PROCEDURE	21038	FOXBORO	N-E11GH-HIM2-E	H1	YES (T,P,H,CS,R)
EMERGENCY PROCEDURE	21077	FOXBORO	N-E11GH-HIM2-E	H1	YES (T,P,H,CS,R)
EMERGENCY PROCEDURE	23030	FOXBORO	N-E13DM-HIH1-E	H1	YES (R)
EMERGENCY PROCEDURE	24029	BARTON	384	H2	YES (T,P,H,CS,R) YES (R)
EMERGENCY PROCEDURE	3101501	NAMCO	EA 170-12100 & 11100	H2	YES (T,R)
EMERGENCY PROCEDURE	3101502	NAMCO	EA 170-12100 & 11100	H2	YES (T,R)
EMERGENCY PROCEDURE	3101601	NAMCO	EA 170-12100 & 11100	H2	YES (R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EO TYPE	HARSH
EMERGENCY PROCEDURE	3101602	NAMCO	FA 170-12100 & 11100	H2	YES (R)
EMERGENCY PROCEDURE	3140601	NAMCO	D-2400X & D-2400X-5R	M	NO
EMERGENCY PROCEDURE	3140602	NAMCO	D-2400X & D-2400X-5R	M	NO
EMERGENCY PROCEDURE	3140701	NAMCO	D-2400X & D-2400X-5R	M	NO
EMERGENCY PROCEDURE	3140702	NAMCO	D-2400X & D-2400X-5R	M	NO
EMERGENCY PROCEDURE	3400601 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
EMERGENCY PROCEDURE	3400602	ALLEN BRADLEY	802T-AT	H2	YES (R)
EMERGENCY PROCEDURE	3403301 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
EMERGENCY PROCEDURE	3403302 =	ALLEN BRADLEY	802T-AT	H2	YES (R)
EMERGENCY PROCEDURE	46322	WESTINGHOUSE	OT2	M	NO
EMERGENCY PROCEDURE	46323	WESTINGHOUSE	OT2	M	NO
EMERGENCY PROCEDURE	4840209	FOXBORO	62H-2E	M	NO
EMERGENCY PROCEDURE	4840215	FOXBORO	62H-2E	M	NO
FEEDWATER SYS.	1-232	LIMITORQUE	SMB-2	H1	YES (T,R) YES (T,H)
FEEDWATER SYS.	1-236	LIMITORQUE	SMB-2	H1	YES (R) NO
FEEDWATER	23010	ROSEMOUNT	1152	H2	NO
FEEDWATER	23012	ROSEMOUNT	1152	H2	NO
FEEDWATER SYS.	33074	ASCO	LB8300861RU	H3	YES (T,R)
FEEDWATER SYS.	33075	ASCO	LB8300861RU	H3	YES (T,R)
FEEDWATER SYS.	33077	ASCO	LB8300861RU	H3	YES (R)
FEEDWATER SYS.	33078	ASCO	LB8300861RU	H3	YES (R)
FEEDWATER SYS.	33080	ASCO	LB8300C58RU	H3	YES (T,R)
FEEDWATER SYS.	33081	ASCO	LB8300C58RU	H3	YES (T,R)
FEEDWATER SYS.	33082	ASCO	LB8300C58RU	H3	YES (R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
FEEDWATER SYS.	33083	ASCO	LB8300C58RU	H3	YES (R)
FEEDWATER SYSTEM	32015 *	LIMITORQUE	SMB-2	H1	YES (T,R) YES (T,H)
FEEDWATER SYSTEM	32016 *	LIMITORQUE	SMB-2	H1	YES (R) NO
INTERNAL CONTAINMENT SPRAY	1-107	ALLIS CHALMERS	445TS	H2	YES (R)
INTERNAL CONTAINMENT SPRAY	1-148	ALLIS CHALMERS	445TS	H2	YES (R)
INTERNAL CONTAINMENT SPRAY	1-419	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	1-420	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	1-421	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	1-422	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	1-430	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	1-433	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	21114	FOXBORO	N-E11GM-HID1-E	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	21115	FOXBORO	N-E11GM-HID1-E	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	24067	FOXBORO	N-E11GM-HIA1-E	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	3127201	NAMCO	D-2400X	M	NO
INTERNAL CONTAINMENT SPRAY	3127301	NAMCO	D-2400X	M	NO
INTERNAL CONTAINMENT SPRAY	3139302	NAMCO	D-2400X	H2	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
INTERNAL CONTAINMENT SPRAY	3139401	NAMCO	D-2400X	H2	YES (R)
INTERNAL CONTAINMENT SPRAY	3139402	NAMCO	D-2400X	H2	YES (R)
INTERNAL CONTAINMENT SPRAY	32125	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	32126	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	33086	ASCO	830281RF	M	NO
INTERNAL CONTAINMENT SPRAY	33087	ASCO	830281RF	M	NO
INTERNAL CONTAINMENT SPRAY	33378	ASCO	HTX8302C26F	H3	YES (R)
INTERNAL CONTAINMENT SPRAY	33379	ASCO	HTX8302C26F	H3	YES (R)
INTERNAL CONTAINMENT SPRAY	32066	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	32067	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	32068	LIMITORQUE	SMB-00	H1	YES (R)
INTERNAL CONTAINMENT SPRAY	32069	LIMITORQUE	SMB-00	H1	YES (R)
POST LOCA H2	1-670	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
POST LOCA H2	1-671	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
POST LOCA H2	1-672	LIMITORQUE	SMB-000	H1	YES (T,H,R)
POST LOCA H2	1-673	LIMITORQUE	SMB-000	H1	YES (T,H,R)
POST LOCA H2	32145	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
POST LOCA H2	32146	LIMITORQUE	SMB-000	H1	YES (T,P,H,CS,R)
POST LOCA H2	32147	LIMITORQUE	SMB-000	H1	YES (T,H,R)

TABLE F-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
POST LOCA H2	32148	LIMITORQUE	SMB-000	H1	YES (T,H,R)
MISC DRAINS AND SUMPS	1-871	LIMITORQUE	S8-00 O/N 3B9375B	H1	YES (R)
MISC DRAINS AND SUMPS	1-872	LIMITORQUE	S8-00 O/N 3B9375B	H1	YES (R)
MISC DRAINS AND SUMPS	16721	MAGNETROL	8730	H2	YES (R)
MISC DRAINS AND SUMPS	16722	MAGNETROL	8730	H2	YES (R)
MISC DRAINS AND SUMPS	16723	MAGNETROL	8730	H2	YES (R)
MISC DRAINS AND SUMPS	16724	MAGNETROL	8730	H2	YES (R)
MISC DRAINS AND SUMPS	16725	MAGNETROL	8730	H2	YES (R)
MISC DRAINS AND SUMPS	19623	WESTINGHOUSE	P81	0	YES (R)
MISC DRAINS AND SUMPS	1962301	WESTINGHOUSE	P8LXPC	0	YES (R)
MISC DRAINS AND SUMPS	19624	WESTINGHOUSE	P81	0	YES (R)
MISC DRAINS AND SUMPS	1962401	WESTINGHOUSE	P8LXPC	0	YES (R)
MISC DRAINS AND SUMPS	3166701	NAMCO	EA 170	H3	YES (R)
MISC DRAINS AND SUMPS	3166702	NAMCO	EA 170	H3	YES (R)
MISC DRAINS AND SUMPS	3167901	NAMCO	EA 170	H3	YES (R)
MISC DRAINS AND SUMPS	3167902	NAMCO	EA 170	H3	YES (R)
MISC DRAINS AND SUMPS	32390	LIMITORQUE	S8-00 O/N 3B9375B	H1	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISC DRAINS AND SUMPS	32391	LIMITORQUE	SB-00 07N 3893758	H1	YES (R)
MISC DRAINS AND SUMPS	33649	VALCOR	V526-6410-1	H1	YES (R)
MISC DRAINS AND SUMPS	33650	VALCOR	V526-6410-1	H1	YES (R)
MISC DRAINS AND SUMPS	33651	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33652	VALCOR	V573-5231-3	H1	YES (R)
MISC DRAINS AND SUMPS	33653	VALCOR	V573-5231-3	H1	YES (R)
MISC DRAINS AND SUMPS	33654	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33655	VALCOR	V526-5950-8	H1	YES (T, P, H, R, CS)
MISC DRAINS AND SUMPS	33656	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33657	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33664	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33665	VALCOR	V526-5871-1	H1	YES (R)
MISC DRAINS AND SUMPS	33684	VALCOR	V526-6600-1	H1	YES (R)
MISC DRAINS AND SUMPS	33685	VALCOR	V526-6600-1	H1	YES (R)
MISC DRAINS AND SUMPS	33710	ASCO	8320A185	H3	YES (R)
MISC DRAINS AND SUMPS	4492301	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492302	WESTINGHOUSE	1589195	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISC DRAINS AND SUMPS	4492401	WESTINGHOUSE	1589195	M	NO
MISC DRAINS AND SUMPS	4492402	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492501	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492502	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492601	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492602	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492701	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492702	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492801	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4492802	WESTINGHOUSE	1589195	M	NO
MISC DRAINS AND SUMPS	46964	WESTINGHOUSE	OT-281	M	NO
MISC DRAINS AND SUMPS	4696401	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696402	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696403	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46965	WESTINGHOUSE	OT-2	M	NO
MISC DRAINS AND SUMPS	4696501	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696502	WESTINGHOUSE	1589196	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISC DRAINS AND SUMPS	4696503	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46966	WESTINGHOUSE	OT-226	M	NO
MISC DRAINS AND SUMPS	4696601	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696602	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46967	WESTINGHOUSE	OT-226	M	NO
MISC DRAINS AND SUMPS	4696701	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696702	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46968	WESTINGHOUSE	OT-2	M	NO
MISC DRAINS AND SUMPS	4696801	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696802	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46969	WESTINGHOUSE	OT-2V6	M	NO
MISC DRAINS AND SUMPS	4696901	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4696902	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46970	WESTINGHOUSE	OT-2V6	M	NO
MISC DRAINS AND SUMPS	4697001	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4697002	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46971	WESTINGHOUSE	OT-2	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISC DRAINS AND SUMPS	46972	WESTINGHOUSE	OT-2	M	NO
MISC DRAINS AND SUMPS	46975	WESTINGHOUSE	OT-2A	M	NO
MISC DRAINS AND SUMPS	4697501	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4697502	WESTINGHOUSE	1589195	M	NO
MISC DRAINS AND SUMPS	46976	WESTINGHOUSE	OT-2A	M	NO
MISC DRAINS AND SUMPS	4697601	WESTINGHOUSE	1589195	M	NO
MISC DRAINS AND SUMPS	4697602	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4698601	WESTINGHOUSE	OT-2B1	M	NO
MISC DRAINS AND SUMPS	4698602	WESTINGHOUSE	OT-2B1	M	NO
MISC DRAINS AND SUMPS	4698701	WESTINGHOUSE	OT-2B1	M	NO
MISC DRAINS AND SUMPS	4698702	WESTINGHOUSE	OT-2B1	M	NO
MISC DRAINS AND SUMPS	46994	WESTINGHOUSE	OT-2S1	M	NO
MISC DRAINS AND SUMPS	4699401	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4699402	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	46995	WESTINGHOUSE	OT-2S1	M	NO
MISC DRAINS AND SUMPS	4699501	WESTINGHOUSE	1589196	M	NO
MISC DRAINS AND SUMPS	4699502	WESTINGHOUSE	1589196	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISCELLANEOUS	ALP-1	ALPHA	5515	M	NO
MISCELLANEOUS	AMP-1	AMPHENOL	82-816-1000HN	H1	YES (T,P,H,R,CS)
MISCELLANEOUS	BEL-3	BELDEN	8777	M	YES (T,R)
MISCELLANEOUS	BIW-1	BOSTON INSULATE WIRE	BOSTRAD 7	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	BREX-1	BRAND REX	HYPALON JACKET	H1	YES (T,P,H,R,CS)
MISCELLANEOUS	DGO-1	D. G. O'BRIEN	MVP (PB-110)	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	DGO-2	D. G. O'BRIEN	LVP (PR-12)	H2	YES (T,P,H,CS,R) YES (T,H)
MISCELLANEOUS	DGO-3	D. G. O'BRIEN	CRDP (PR-7)	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	DGO-4	D. G. O'BRIEN	NIS (PR-2)	H2	YES (T,P,H,CS,R) YES (T,H)
MISCELLANEOUS	DGO-5	D. G. O'BRIEN	RM (PR-11)	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	DGO-6	D. G. O'BRIEN	I&C (PR-8)	H2	YES (T,P,H,CS,R) YES (T,H)
MISCELLANEOUS	DGO-7	D.G. O'BRIEN	R19P1010G05	H2	YES (T,P,H,R,CS)
MISCELLANEOUS	END-1	ENDEVCO	3075M6-240	0	YES (T,P,H,R,CS)
MISCELLANEOUS	END-2	ENDEVCO	3075M-360	0	YES (T,P,H,R,CS)
MISCELLANEOUS	END-3	ENDEVCO	3075M6-120	0	YES (T,P,H,R,CS)
MISCELLANEOUS	G-7	CHEVRON	BR8-2 SRI-2	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	GEN-2	GENERAL ELECTRIC	EBS, EB25	H1	YES (T,P,H,CS,R)
MISCELLANEOUS	GEN-3	GENERAL ELECTRIC	EBS & EB25	H1	YES (T,P,H,CS,R)
MISCELLANEOUS	KER-1	KERITE	FR INSUL/HTK INSUL	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	KER-2	KERITE	SEE NOTE A	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	NEB-1	NEBULA	ESS0-EP-1	H2	YES (T,P,H,CS,R)
MISCELLANEOUS	OKO-1	OKONITE	OKONITE-OKOPRENE	H1	YES (T,P,H,CS,R)
MISCELLANEOUS	OKO-2	OKONITE	T-95	H1	YES (T,P,H,CS,P)
MISCELLANEOUS	OKO-3	OKONITE	OKOLON JACKET	H1	YES (T,P,H,R,CS)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MISCELLANEOUS	OKO-4	OKONITE	OKOLON JACKET	H1	YES (T,P,H,R,CS)
MISCELLANEOUS	OKO-5	OKONITE	OKOZEL (TEFZEL)	H1	YES (T,P,H,R,CS,
MISCELLANEOUS	OKO-6	OKONITE	OKOZEL (TEFZEL)	H1	YES (T,P,H,R,CS,
MISCELLANEOUS	OKO-7	OKONITE	202-11-2402	H1	YES (T,R)
MISCELLANEOUS	ROC-1	ROCKBESTOS CO.	SIS	H1	NO
MISCELLANEOUS	1E-0564	D. G. O'BRIEN	SEE OTHER SHEETS FOR THIS MANUFACTURER	H2	YES (T,P,H,CS,R)
MAIN STEAM	1-052	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
MAIN STEAM	1-415	LIMITORQUE	SMB-000	H1	YES (T,R)
MAIN STEAM	1-416	LIMITORQUE	SMB-000	H1	YES (T,R)
MAIN STEAM	1-426	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
MAIN STEAM	1-427	LIMITORQUE	SMB-000	H1	NO YES (T,H)
MAIN STEAM	1-428	LIMITORQUE	SMB-000	H1	NO YES (T,H)
MAIN STEAM	21094	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	21095	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	21096	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	21097	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	21098	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	21099	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,H)
MAIN STEAM	23001	ROSEMOUNT	1153006	H1	YES (T,P,H,CS,R) YES (R)
MAIN STEAM	2300110	CONAX	N-11006-35	H1	YES (T,P,H,CS,R)
MAIN STEAM	23002	ROSEMOUNT	1153006	H1	YES (T,P,H,CS,R) YES (R)
MAIN STEAM	2300210	CONAX	N-11006-35	H1	YES (T,P,H,CS,R)
MAIN STEAM	23005	ROSEMOUNT	1153006	H1	YES (T,P,H,CS,R) YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
MAIN STEAM	2300510	CONAX	N-11006-35	H1	YES (T,P,H,CS,R)
MAIN STEAM	23007	ROSEMOUNT	1153006	H1	YES (T,P,H,CS,R) YES (R)
MAIN STEAM	2300710	CONAX	N-11006-35	H1	YES (T,P,H,CS,R)
MAIN STEAM	24042	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
MAIN STEAM	24043	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
MAIN STEAM	24044	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
MAIN STEAM	24046	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
MAIN STEAM	24047	FOXBORO	N-E13DH-HIM1-E	H1	YES (T,P,H,CS,R)
MAIN STEAM	24048	FOXBORO	N-E13DH-HIM1-F	H1	YES (T,P,H,CS,R)
MAIN STEAM	32038	LIMITORQUE	SMB-000	H1	YES (T,R)
MAIN STEAM	32039	LIMITORQUE	SMB-000	H1	YES (T,R)
MAIN STEAM	33177	ASCO	WP-8015C21	H3	YES (T,H)
MAIN STEAM	33178	ASCO	WP-8015C21	H3	YES (T,H)
MAIN STEAM	33181	ASCO	WP-8015B31	H3	YES (T,H)
MAIN STEAM	33182	ASCO	WP-8015B31	H3	YES (T,H)
MAIN STEAM	33183	ASCO	WP-8015B31	H3	YES (T,H)
MAIN STEAM	33184	ASCO	WP-8015B31	H3	YES (T,H)
MAIN STEAM	33185	ASCO	WP-8015C21	H3	YES (T,H)
MAIN STEAM	33186	ASCO	WP-8015D21	H3	YES (T,H)
MAIN STEAM	32077 °	LIMITORQUE	SMB-000	H2	YES (T,P,H,R,S)
MAIN STEAM	32078 °	LIMITORQUE	SMB-000	H1	NO YES (T,H)
MAIN STEAM	32080 °	LIMITORQUE	SMB-000	H1	NO YES (T,H)
PRIMARY SAMPLING	LABARGE-1	LABARGE	MIL-W-81381-12-14	H1	YES (T,H,R)
PRIMARY SAMPLING	1-896	SIEMENS-ALLIS	640	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	1-898	DOERR	3N228E	M	NO
PRIMARY SAMPLING	16195	PENN	P70LB-6	M	YFS (T,H)
PRIMARY SAMPLING	16196	PENN	P70LB-6	M	YES (T,H)
PRIMARY SAMPLING	16358	UNITED ELECTRIC	888	M	NO
PRIMARY SAMPLING	16359	UNITED ELECTRIC	888	M	NO
PRIMARY SAMPLING	16361	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (T,H,R)
PRIMARY SAMPLING	16362	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (T,H,R)
PRIMARY SAMPLING	16363	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (R)
PRIMARY SAMPLING	16364	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (R)
PRIMARY SAMPLING	16365	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
PRIMARY SAMPLING	16366	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
PRIMARY SAMPLING	16367	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
PRIMARY SAMPLING	16368	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
PRIMARY SAMPLING	16369	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (T,H,R)
PRIMARY SAMPLING	16370	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (T,H,R)
PRIMARY SAMPLING	16371	TEXAS INSTRUMENTS	P/N 6786-38-5	H2	YES (R)
PRIMARY SAMPLING	16372	TEXAS INSTRUMENTS	P/N 78TL2A-17	H2	YES (R)
PRIMARY SAMPLING	16373	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
PRIMARY SAMPLING	16374	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
PRIMARY SAMPLING	16375	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
PRIMARY SAMPLING	16376	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
PRIMARY SAMPLING	16377	TEXAS INSTRUMENTS	P/N 6786-38-5	M	NO
PRIMARY SAMPLING	16378	TEXAS INSTRUMENTS	P/N 78TL2A-17	M	NO
PRIMARY SAMPLING	16472	DWYER	1638-1	M	NO
AUXILIARY BUILDING VENTILATION	16474	DWYER	1638-1	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	18319	FLUID COMPONENTS INC	FR78-4	M	NO
PRIMARY SAMPLING	18320	FLUID COMPONENTS INC	FR70	M	NO
PRIMARY SAMPLING	27100	FLUID COMPONENTS INC	FR78-4	M	NO
PRIMARY SAMPLING	3126301 =	NAMCO	EA-180	H1	YES (T, P, H, CS, R)
PRIMARY SAMPLING	3126302 =	NAMCO	EA-180	H1	YES (T, P, H, CS, R)
PRIMARY SAMPLING	3126401 =	NAMCO	EA-180	H1	YES (T, P, H, CS, R)
PRIMARY SAMPLING	3126402 =	NAMCO	EA-180	H1	YES (T, P, H, CS, R)
PRIMARY SAMPLING	3126701 =	NAMCO	D-2400X	H2	YES (R)
PRIMARY SAMPLING	3126702 =	NAMCO	D-2400X	H2	YES (R)
PRIMARY SAMPLING	3126801 =	NAMCO	D-2400X	H2	YES (R)
PRIMARY SAMPLING	3126802 =	NAMCO	D-2400X	H2	YES (R)
PRIMARY SAMPLING	33030	ASCO	8316854	H3	YES (T, P, H, CS, R)
PRIMARY SAMPLING	33092	VALCOR	V526-5295-34	H1	YES (T, P, H, R, CS)
PRIMARY SAMPLING	33092	VALCOR	V526-5295-34	H1	YES (T, P, H, CS, R)
PRIMARY SAMPLING	33274	ASCO	8316854	H3	YES (T, P, H, CS, R)
PRIMARY SAMPLING	33325	ASCO	8302026	H3	YES (R)
PRIMARY SAMPLING	33326	ASCO	HTX8302026F	H3	YES (R)
PRIMARY SAMPLING	33327	VALCOR	V526-5295-33	H1	YES (R)
PRIMARY SAMPLING	33327	VALCOR	V526-5295-33	H1	YES (R)
PRIMARY SAMPLING	33666	VALCOR	V526-6042-5	H1	NO
PRIMARY SAMPLING	33667	VALCOR	V526-5295-38	H1	NO
PRIMARY SAMPLING	33668	VALCOR	V526-5295-38	H1	YES (R)
PRIMARY SAMPLING	33669	VALCOR	V526-5295-4	H1	YES (R)
PRIMARY SAMPLING	33670	VALCOR	V526-5295-38	H1	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	33671	VALCOR	V526-5295-42	H1	YES (R)
PRIMARY SAMPLING	33672	VALCOR	V526-5295-39	H1	YES (R)
PRIMARY SAMPLING	33673	VALCOR	V526-5295-39	H1	YES (R)
PRIMARY SAMPLING	33674	VALCOR	V526-5295-41	H1	NO
PRIMARY SAMPLING	33675	VALCOR	V573-5231-4	H1	YES (R)
PRIMARY SAMPLING	33676	VALCOR	V573-5231-4	H1	YES (R)
PRIMARY SAMPLING	33677	VALCOR	V526-5295-38	M	NO
PRIMARY SAMPLING	33678	VALCOR	V526-6042-4	H1	YES (R)
PRIMARY SAMPLING	33679	VALCOR	V526-6042-2	H1	YES (R)
PRIMARY SAMPLING	33680	VALCOR	V526-6042-4	H1	YES (R)
PRIMARY SAMPLING	33681	VALCOR	V526-6042-2	H1	YES (R)
PRIMARY SAMPLING	33682	VALCOR	V526-6042-4	H1	YES (R)
PRIMARY SAMPLING	33683	VALCOR	V526-6042-2	H1	YES (R)
PRIMARY SAMPLING	33686	VALCOR	V526-5631-6	H1	YES (R)
PRIMARY SAMPLING	33687	VALCOR	V526-5631-6	H1	YES (R)
PRIMARY SAMPLING	33688	VALCOR	V526-5295-31	H1	YES (R)
PRIMARY SAMPLING	33690	VALCOR	V526-5295-31	H1	YES (R)
PRIMARY SAMPLING	33695	ASCO	8320813	M	NO
PRIMARY SAMPLING	33696	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33697	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33698	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33699	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33700	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33702	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33703	SKINNER	V52081100	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	33704	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33705	SKINNER	V52081100	M	NO
PRIMARY SAMPLING	33709	ASCO	8320813	M	NO
PRIMARY SAMPLING	33714	SKINNER	R2HLX28	M	NO
PRIMARY SAMPLING	33715	SKINNER	R2HLX28	M	NO
PRIMARY SAMPLING	5163301	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163302	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163303	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163304	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163305	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163306	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163307	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163308	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163309	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163310	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163311	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163312	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163313	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163314	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163315	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163316	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163317	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163318	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163319	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163320	WESTINGHOUSE	1589196	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	5163321	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163322	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163323	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163324	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163325	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163326	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163327	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163328	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163329	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163330	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163331	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163333	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163334	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163335	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163336	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163337	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163338	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163339	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163340	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163341	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163342	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163343	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163344	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163345	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163346	WESTINGHOUSE	1589196	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	5163347	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163348	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163349	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163350	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163351	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163352	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163353	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163354	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163355	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163356	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163357	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163358	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163359	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163360	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163361	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163362	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163363	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163364	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163365	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163366	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163367	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163368	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163369	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163370	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163371	WESTINGHOUSE	1589196	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	5163372	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163373	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163374	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163375	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163376	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163377	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163378	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163383	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163384	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163385	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163401	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163402	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	5163403	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163404	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163405	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163406	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163407	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163408	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163409	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163410	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163411	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163412	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163413	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163414	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163415	WESTINGHOUSE	1589184	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	5163416	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163417	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163418	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163419	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163420	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163421	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163422	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163423	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163424	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163425	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163426	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163427	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163428	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163429	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163430	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	5163431	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163432	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163438	FLUID COMPONENTS INC	FR78-4	M	NO
PRIMARY SAMPLING	5163439	WESTINGHOUSE	1589184	M	NO
PRIMARY SAMPLING	5163440	WESTINGHOUSE	OT-2A	M	NO
PRIMARY SAMPLING	8103301	ATHENA CONTROLS	P/N 74-6	M	NO
PRIMARY SAMPLING	8103302	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103304	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103305	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103307	WESTINGHOUSE	1589196	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
PRIMARY SAMPLING	8103308	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103310	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103311	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103313	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103314	ATHENA CONTROLS	P/N 74-6	M	NO
PRIMARY SAMPLING	8103315	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103317	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103318	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103320	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103321	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103323	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103324	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103326	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103327	ATHENA CONTROLS	P/N 74-6	M	NO
PRIMARY SAMPLING	8103328	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103330	WESTINGHOUSE	1589196	M	NO
PRIMARY SAMPLING	8103331	ALLIED ELECTRONICS	703-0503	M	NO
REACTOR BUILDING VENTILATION	1-120	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	1-121	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	1-156	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	1-157	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	1-583	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	1-584	RELIANCE	TYPE N	H2	YES (T,P,H,CS,R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
REACTOR BUILDING VENTILATION	15302	CONAX	2323-9708-01	H1	YES (T,P,H,R,CS)
REACTOR BUILDING VENTILATION	16427	BARTON	288A	H2	YES (R)
REACTOR BUILDING VENTILATION	16428	BARTON	288A	H2	YES (R)
REACTOR BUILDING VENTILATION	21100 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21101 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21102 =	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21117	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21118	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21119	FOXBORO	N-E11DM-HIBI-AE	H1	YES (R)
REACTOR BUILDING VENTILATION	21132	ROSEMOUNT	1152GP7D22PB	H2	YES (P)
REACTOR BUILDING VENTILATION	21133	ROSEMOUNT	1152GP7D22PB	H2	YES (R)
REACTOR BUILDING VENTILATION	25019	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	25020	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	28107	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	28108	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	3112301	NAMCO	EA 740-20100	H1	YES (T,H,R)
REACTOR BUILDING VENTILATION	3112401	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,P)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
REACTOR BUILDING VENTILATION	3112410	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	3112411	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	3112501	NAMCO	EA 740-20100	H1	YES (T,H,R)
REACTOR BUILDING VENTILATION	3112601	NAMCO	EA 740-20100	H1	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	3112610	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	3112611	CONAX	N-11006-45	H1	YES (T,P,H,CS,R)
REACTOR BUILDING VENTILATION	3133701	NAMCO	EA 740-20100	H1	YES (T,H,R)
REACTOR BUILDING VENTILATION	3133801	NAMCO	EA 740-20100	H1	YES (T,H,R)
REACTOR BUILDING VENTILATION	3138301 =	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	3138302 =	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	3138401 =	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	3138402 =	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	3138501	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	3138502 =	NAMCO	D-2400X	H2	YES (R)
REACTOR BUILDING VENTILATION	33291	ASCO	8302C26	O	YES (T,H,P)
REACTOR BUILDING VENTILATION	33292	ASCO	8302C26	O	YES (T,H,R)
REACTOR BUILDING VENTILATION	33385	ASCO	8302C26F	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
REACTOR BUILDING VENTILATION	33386	ASCO	8302C26F	H3	YES (R)
REACTOR BUILDING VENTILATION	33387	ASCO	8302C26F	H3	YES (R)
REACTOR BUILDING VENTILATION	33692	VALCOR	V526-5292-26	M	NO
REACTOR BUILDING VENTILATION	33693	VALCOR	V526-5292-26	M	NO
REACTOR BUILDING VENTILATION	41615	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	41616	COMSIP/DELPHI	III	M	NO
REACTOR BUILDING VENTILATION	42597	FOXBORO	N226S	M	NO
REACTOR BUILDING VENTILATION	42598	FOXBORO	N226S	M	NO
REACTOR BUILDING VENTILATION	4810401	FOXBORO	2AI-12V	M	NO
REACTOR BUILDING VENTILATION	48106	FOXBORO	N-2AX-D10	M	NO
REACTOR BUILDING VENTILATION	4811301	FOXBORO	N-2AO-VAI	M	NO
REACTOR BUILDING VENTILATION	4812101	FOXBORO	N-2AI-12V	M	NO
REACTOR BUILDING VENTILATION	48123	FOXBORO	N-2AX-D10	M	NO
REACTOR BUILDING VENTILATION	4813801	FOXBORO	N-2AI-P2V	M	NO
REACTOR BUILDING VENTILATION	64001	TECHNICAL HEATERS	N/A	M	NO
REACTOR BUILDING VENTILATION	6400101	ATHENA CONTROLS	74-6	M	NO
REACTOR BUILDING VENTILATION	6400102	ATHENA CONTROLS	74-6	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
REACTOR BUILDING VENTILATION	6400103	ATHENA CONTROLS	74-6	M	NO
REACTOR COOLANT	1-355	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	1-356	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	21079 =	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	21080 =	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	21081 =	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	21082 =	FOXBORO	N-E11GM-HIE1-E	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	23079	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
REACTOR COOLANT	23080	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
REACTOR COOLANT	23081	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
REACTOR COOLANT	23082	UNHOLTZ-DICKIE CORP	22CA-2TR	O	YES (T,P,H,R,CS)
REACTOR COOLANT	24030 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
REACTOR COOLANT	24031 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
REACTOR COOLANT	24032 =	BARTON	386/351	H2	YES (T,P,H,CS,R) YES (R)
REACTOR COOLANT	27096	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
REACTOR COOLANT	27097	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
REACTOR COOLANT	27098	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
REACTOR COOLANT	27099	ENDEVCO	2273AM20	O	YES (T,P,H,R,CS)
REACTOR COOLANT	3110901	NAMCO	EA 180	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	3110902	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	3111001	NAMCO	EA 180	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	3111002	NAMCO	EA 180	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	3125901	NAMCO	D-2400X	H2	YES (R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	FQ TYPE	HARSH
REACTOR COOLANT	3126001	NAMCO	D-2400X	H2	YES (R)
REACTOR COOLANT	3126101	NAMCO	D-2400X	H2	YES (R)
REACTOR COOLANT	3126310	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,P)
REACTOR COOLANT	3126311	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	3126410	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	3126411	CONAX	N-11001-31 N-21031	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	3129801	NAMCO	D-2400X	M	NO
REACTOR COOLANT	32089	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,P)
REACTOR COOLANT	32090	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
REACTOR COOLANT	33093	ASCO	LB-83146	H3	YES (R)
REACTOR COOLANT	33137	ASCO	LB-83146	H3	YES (R)
REACTOR COOLANT	33170	ASCO	LB-83146	H3	YES (R)
REACTOR COOLANT	33171	ASCO	LB-83146	M	NO
REACTOR COOLANT	33658	TARGET ROCK	808-001	H1	YES (T,P,H,P,CS)
REACTOR COOLANT	3365810	CONAX	SALL	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	33659	TARGET ROCK	808-001	H1	YES (T,P,H,P,CS)
REACTOR COOLANT	3365910	CONAX	SALL	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	33660	TARGET ROCK	808-001	H1	YES (T,P,H,P,CS)
REACTOR COOLANT	3366010	CONAX	SALL	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	33661	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	3366110	CONAX	SALL	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	33662	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	3366210	CONAX	SALL	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	33663	TARGET ROCK	808-001	H1	YES (T,P,H,R,CS)
REACTOR COOLANT	3366310	CONAX	SALL	H1	YES (T,P,H,R,CS)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
REACTOR COOLANT	4680402	WESTINGHOUSE	1589184	M	NO
REACTOR COOLANT	46988	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4698801	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4698802	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	46989	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4698901	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4698902	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	46990	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4699001	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4699002	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	46991	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4699101	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4699102	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	46992	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4699201	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4699202	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	46993	WESTINGHOUSE	OT-2	M	NO
REACTOR COOLANT	4699301	WESTINGHOUSE	1589195	M	NO
REACTOR COOLANT	4699302	WESTINGHOUSE	1589195	M	NO
RESIDUAL HEAT REMOVAL	1-025	WESTINGHOUSE	ABDP	H2	YES (R)
RESIDUAL HEAT REMOVAL	1-032	WESTINGHOUSE	ABDP	H2	YES (R)
RESIDUAL HEAT REMOVAL	1-149	LIMITORQUE	SMB-000	H3	YES (R)
RESIDUAL HEAT REMOVAL	1-150	LIMITORQUE	SMB-000	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
RESIDUAL HEAT REMOVAL	16638	MAGNETROL	A-153-F-EP/VP-X-Y	O	YES (R,S)
RESIDUAL HEAT REMOVAL	16639	MAGNETROL	A-153-F-EP/VP-X-Y	O	YES (R,S)
RESIDUAL HEAT REMOVAL	1669301	MAGNETROL	A-153-FXEP/VP-XY-TDM	O	YES (R,S)
RESIDUAL HEAT REMOVAL	1669302	MAGNETROL	A-153-FXEP/VP-XY-TDM	O	YES (R,S)
RESIDUAL HEAT REMOVAL	1669401	MAGNETROL	A-153-FXEP/VP-XY-TDM	O	YES (R,S)
RESIDUAL HEAT REMOVAL	1669402	MAGNETROL	A-153-FXEP/VP-XY-TDM	O	YES (R,S)
RESIDUAL HEAT REMOVAL	19530	ELECTRO-SWITCH	20K00904S3-034	M	NO
RESIDUAL HEAT REMOVAL	19531	ELECTRO-SWITCH	20K00904S3-034	M	NO
RESIDUAL HEAT REMOVAL	19651	ELECTRO-SWITCH	SERIES 20K	M	NO
RESIDUAL HEAT REMOVAL	19652	ELECTRO-SWITCH	SERIES 20K	M	NO
RESIDUAL HEAT REMOVAL	19653	ELECTRO-SWITCH	SERIES 20K	M	NO
RESIDUAL HEAT REMOVAL	19654	ELECTRO-SWITCH	SERIES 20K	M	NO
RESIDUAL HEAT REMOVAL	21084 =	FOXBORO	N-E11GM-HID1-E	H1	YES (R)
RESIDUAL HEAT REMOVAL	21085 =	FOXBORO	N-E11GM-HID1-E	H1	YES (R)
RESIDUAL HEAT REMOVAL	24040 =	FOXBORO	N-E11GM-HIB1-E	H1	YES (R)
RESIDUAL HEAT REMOVAL	24062 =	BARTON	332	H2	YES (R)
RESIDUAL HEAT REMOVAL	2407001	GEMS TLI TRANSAMERICA	XM-54852	H1	YES (T,P,H,R,CS)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
RESIDUAL HEAT REMOVAL	2407002	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
RESIDUAL HEAT REMOVAL	2407003	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
RESIDUAL HEAT REMOVAL	2407101	GEMS TLI TRANSAMERICA	XM-54852	H1	YES (T,P,H,R,CS)
RESIDUAL HEAT REMOVAL	2407102	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
RESIDUAL HEAT REMOVAL	2407103	GEMS TLI TRANSAMERICA	XM-54853	H1	YES (T,P,H,R,CS)
RESIDUAL HEAT REMOVAL	33330	ASCO	HTX8302826F	H3	YES (R)
RESIDUAL HEAT REMOVAL	33331	ASCO	HTX8302826F	H3	YES (R)
RESIDUAL HEAT REMOVAL	35073	GEMS TLI TRANSAMERICA	RE-36562	H1	NO
RESIDUAL HEAT REMOVAL	35074	GEMS TLI TRANSAMERICA	RE-36562	H1	NO
RESIDUAL HEAT REMOVAL	4131703	WESTINGHOUSE	VX-252	M	NO
RESIDUAL HEAT REMOVAL	4131704	WESTINGHOUSE	VX-252	M	NO
RESIDUAL HEAT REMOVAL	44301	MICRO SWITCH	907AUS	M	NO
RESIDUAL HEAT REMOVAL	44302	MICRO SWITCH	907AUS	M	NO
RESIDUAL HEAT REMOVAL	32134 = *	LIMITORQUE	SMB-00	H3	YES (R)
RESIDUAL HEAT REMOVAL	32135 = *	LIMITORQUE	SMB-000	H3	YES (R)
RADIATION MONITORING	2906401	GENERAL ATOMICS	RD-23	H1	YES (T,P,H,R,CS)
RADIATION MONITORING	2906501	GENERAL ATOMICS	RD-23	H1	YES (T,P,H,R,CS)

TABLE F-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EO TYPE	HARSH
RADIATION MONITORING	2907101	EBERLINE	SPING-4	M	NO
RADIATION MONITORING	2907102	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	2907103	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	2907201	EBERLINE	SPING-4	M	NO
RADIATION MONITORING	2907202	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	2907203	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	42599	FOXBORO	N-226S	M	NO
RADIATION MONITORING	42600	FOXBORO	N-226S	M	NO
RADIATION MONITORING	48127	FOXBORO	N-2AX-DIO	M	NO
RADIATION MONITORING	48128	FOXBORO	N-2AX-DIO	M	NO
RADIATION MONITORING	48143	GENERAL ATOMICS	RP-2C	M	NO
RADIATION MONITORING	48144	GENERAL ATOMICS	RP-2C	M	NO
RADIATION MONITORING	48997	GENERAL ATOMICS	RP-23	M	NO
RADIATION MONITORING	48998	GENERAL ATOMICS	RP-23	M	NO
RADIATION MONITORING	8102502	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102503	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102601	EBERLINE	DAM-4	H3	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
RADIATION MONITORING	8102602	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	8102603	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	8102702	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102703	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102802	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102803	EBERLINE	CLI-1	H3	YES (T)
RADIATION MONITORING	8102901	EBERLINE	DAM-4	M	NO
RADIATION MONITORING	8102902	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	8102903	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	810300	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	8103001	EBERLINE	DAM-4	M	NO
RADIATION MONITORING	8103002	EBERLINE	CLI-1	M	NO
RADIATION MONITORING	8103101	EBERLINE	CT-1	M	NO
RADIATION MONITORING	8103201	EBERLINE	CT-1	H3	YES (T)
RELAY ROOM LOCATED EQUIPMENT	1E-0205	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0206	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0207	FOXBORO	BUILT PER SPEC	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
RELAY ROOM LOCATED EQUIPMENT	1E-0208	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0211	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0212	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0213	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0214	FOXBORO	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0220	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0221	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0222	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0223	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0224	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0225	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0226	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0227	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0228	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0229	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0230	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0231	WESTINGHOUSE	BUILT PER SPEC	M	NO

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
RELAY ROOM LOCATED EQUIPMENT	1E-0232	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0233	WESTINGHOUSE	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0242	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0243	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0269	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0270	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0272	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0273	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO
RELAY ROOM LOCATED EQUIPMENT	1E-0274	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO NO
RELAY ROOM LOCATED EQUIPMENT	1E-0275	BRIGGS ELECTRIC	BUILT PER SPEC	M	NO NO
SHIELD BUILDING VENTILATION	1-115	ROTRON	1505JH	H2	YES (R)
SHIELD BUILDING VENTILATION	1-127	RELIANCE	284-T	H2	YES (R)
SHIELD BUILDING VENTILATION	1-145	RELIANCE	284-T	H2	YES (R)
SHIELD BUILDING VENTILATION	1-147	ROTRON	1505JH	H2	YES (R)
SHIELD BUILDING VENTILATION	1-238	CHROMALOX		H2	YES (R)
SHIELD BUILDING VENTILATION	1-239	CHROMALOX		H2	YES (R)
SHIELD BUILDING VENTILATION	1639801	FENWAL	18000-0	H2	YES (R)

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SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SHIELD BUILDING VENTILATION	1639802	FENWAL	18000-0	H2	YES (R)
SHIELD BUILDING VENTILATION	16416	BARTON	289A	H2	YES (R)
SHIELD BUILDING VENTILATION	16417	BARTON	289A	H2	YES (R)
SHIELD BUILDING VENTILATION	32375	JOHNSON	D-3200	U	YES (R) NO
SHIELD BUILDING VENTILATION	32375-1	DWYER	3001	U	YES (R)
SHIELD BUILDING VENTILATION	32375-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32375-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENTILATION	32376	JOHNSON	D-3200	U	YES (R)
SHIELD BUILDING VENTILATION	32376-1	DWYER	3004	U	YES (R)
SHIELD BUILDING VENTILATION	32376-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32376-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENTILATION	32377	JOHNSON	D-3200	U	YES (R)
SHIELD BUILDING VENTILATION	32377-1	DWYER	3001	U	YES (R)
SHIELD BUILDING VENTILATION	32377-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32377-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENTILATION	32378	JOHNSON	D-3200	U	YES (R)
SHIELD BUILDING VENTILATION	32378-1	DWYER	3001	U	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SHIELD BUILDING VENTILATION	32378-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32378-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENT SYSTEM	32379	JOHNSON	D-3200	U	YES (R)
SHIELD BUILDING VENTILATION	32379-1	DWYER	3004	U	YES (R)
SHIELD BUILDING VENTILATION	32379-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32379-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENTILATION	32380	JOHNSON	D-3200	U	YES (R)
SHIELD BUILDING VENTILATION	32380-1	DWYER	3001	U	YES (R)
SHIELD BUILDING VENTILATION	32380-2	JOHNSON	PC-4000	U	YES (R)
SHIELD BUILDING VENTILATION	32380-3	JOHNSON	TZ5000-2	U	YES (R)
SHIELD BUILDING VENTILATION	32382	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238202	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BUILDING VENTILATION	32383	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238302	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BUILDING VENTILATION	32384	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238402	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BUILDING VENTILATION	32385	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238502	ALLEN BRADLEY	802T-AT	H2	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SHIELD BUILDING VENTILATION	32386	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238602	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BUILDING VENTILATION	32387	JOHNSON	M81ACA-3	H2	YES (R)
SHIELD BLDG VENT	3238702	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BUILDING VENTILATION	33289	JOHNSON	V-24	H3	YES (R)
SHIELD BUILDING VENTILATION	33290	JOHNSON	V-24	H3	YES (R)
SHIELD BLDG VENT	3403902	ALLEN BRADLEY	802T-AT	H2	YES (R)
SHIELD BLDG VENT	3404002	ALLEN BRADLEY	802T-AT	H2	YES (R)
SAFETY INJECTION	1-020	WESTINGHOUSE	5809-H	H2	YES (R) NO
SAFETY INJECTION	1-027	WESTINGHOUSE	5809-H	H2	YES (R) NO
SAFETY INJECTION	1-130	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	1-140	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	1-321	LIMITORQUE	SMB-00	H3	YES (R)
SAFETY INJECTION	1-366	LIMITORQUE	SMB-0	H3	YES (R) NO
SAFETY INJECTION	1-367	LIMITORQUE	SMB-0	H3	YES (R) NO
SAFETY INJECTION	1-368	LIMITORQUE	SMB-00	H3	YES (R) NO
SAFETY INJECTION	1-370	LIMITORQUE	SMB-00	H3	YES (R) NO
SAFETY INJECTION	1-373	LIMITORQUE	SMB 1-40	H1	YES (R)
SAFETY INJECTION	1-374	LIMITORQUE	SMB 1-40	H1	YES (R)
SAFETY INJECTION	1-375	LIMITORQUE	SMB 1-40	H1	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SAFETY INJECTION	1-376	LIMITORQUE	SMB 1-40	H1	YES (R)
SAFETY INJECTION	1-377	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	1-378	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,P)
SAFETY INJECTION	1-379	LIMITORQUE	SMB-0	H1	YES (R)
SAFETY INJECTION	1-380	LIMITORQUE	SMB-0	H1	YES (R)
SAFETY INJECTION	1-381	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	1-382	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	1-383	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	1-384	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	1-385	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	1-386	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	1-387	LIMITORQUE	SMB-00	H3	YES (R)
SAFETY INJECTION	1-388	LIMITORQUE	SMB-00	H3	YES (R)
SAFETY INJECTION	32092 =	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	32093	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,P)
SAFETY INJECTION	32094 =	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	32095	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	32097 =	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	32098	LIMITORQUE	SMB-00	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	32104 =	LIMITORQUE	SMB-00	H3	YES (R) NO
SAFETY INJECTION	32105 =	LIMITORQUE	SMB-00	H3	YES (R) NO
SAFETY INJECTION	32106	LIMITORQUE	SMB-00	H3	YES (R)
SAFETY INJECTION	32107 =	LIMITORQUE	SMB-00	H3	YES (R)
SAFETY INJECTION	32108 =	LIMITORQUE	SMB-00	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SAFETY INJECTION	32111 =	LIMITORQUE	SMB-0	H1	YES (R)
SAFETY INJECTION	32112 =	LIMITORQUE	SMB-0	H1	YES (R)
SAFETY INJECTION	32130 =	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	32131 =	LIMITORQUE	SMB-00	H1	YES (R)
SAFETY INJECTION	33192	ASCO	LB-831654	H3	YES (R)
SAFETY INJECTION	32102 = *	LIMITORQUE	SMB-1-40	H1	YES (R)
SAFETY INJECTION	32103 = *	LIMITORQUE	SMB-1-40	H1	YES (R)
SAFETY INJECTION	32113 = *	LIMITORQUE	SMB-1-40	H1	YES (R)
SAFETY INJECTION	32114 = *	LIMITORQUE	SMB-1-40	H1	YES (R)
SAFETY INJECTION	32109 = *	LIMITORQUE	SMB-0	H3	YES (R) NO
SAFETY INJECTION	32110 = *	LIMITORQUE	SMB-0	H3	YES (R) NO
SAFETY INJECTION	32100 *	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
SAFETY INJECTION	32101 *	LIMITORQUE	SMB-1	H1	YES (T,P,H,CS,R)
SECONDARY SAMP.	3127001	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
SECONDARY SAMP.	3127101 *	NAMCO	D-2400X	H2	YES (R)
SECONDARY SAMP.	3133401	NAMCO	EA-180	H1	YES (T,P,H,CS,R)
SECONDARY SAMP.	3133501 *	NAMCO	D-2400X	H2	YES (R)
SECONDARY SAMP.	33016	ASCO	8302026RF	H3	YES (T,P,H,CS,R)
SECONDARY SAMP.	33017	ASCO	LB83146	H3	YES (R)
SECONDARY SAMP.	33158	ASCO	830204	H3	YES (T,P,H,CS,R)
SECONDARY SAMP.	33159	ASCO	LB 83146	H3	YES (R)
SERVICE WATER	1-022	ALLIS CHALMERS	580888	M	NO NO
SERVICE WATER	1-023	ALLIS CHALMERS	580888	M	NO NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SERVICE WATER	1-029	ALLIS CHALMERS	580888	M	NO
SERVICE WATER	1-030	ALLIS CHALMERS	580888	M	NO
SERVICE WATER	1-073	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-242	RELIANCE	184 TD	M	NO
SERVICE WATER	1-243	RELIANCE	184 TD	M	NO
SERVICE WATER	1-252	RELIANCE	184 TD	M	NO
SERVICE WATER	1-294	RELIANCE	184 TD	M	NO
SERVICE WATER	1-394	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	1-395	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	1-396	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	1-397	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	1-399	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-401	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-402	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-403	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-408	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	1-409	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32011	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32012	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32029	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32030	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32031	LIMITORQUE	SMB-000	M	NO
SERVICE WATER	32060 =	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	33033	ASCO	8320A19	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
SERVICE WATER	33034	ASCO	8320A19	M	NO NO
SERVICE WATER	33040	ASCO	8302C29	M	NO NO
SERVICE WATER	33041	ASCO	8302C29	M	NO NO
SERVICE WATER	33043	ASCO	8344862	M	NO
SERVICE WATER	33044	ASCO	8344862	M	NO
SERVICE WATER	32061 = *	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	32058 * =	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	32059 = *	LIMITORQUE	SMB-000	H1	YES (R)
SERVICE WATER	32009 *	LIMITORQUE	SMB-00	M	NO
SERVICE WATER	32010 *	LIMITORQUE	SMB-00	M	NO
TURBINE BUILDING VENT	1-116	RELIANCE	324TCZ	M	NO NO
TURBINE BUILDING VENT	1-118	RELIANCE	324TCZ	M	NO NO
TURBINE BUILDING VENT	1-201	LOUIS ALLIS	R18T	M	NO NO
TURBINE BUILDING VENT	1-211	LOUIS ALLIS	R184T	M	NO NO
TURBINE BUILDING VENT	1-451	ALLIS CHALMERS	286T	M	NO
TURBINE BUILDING VENT	1-452	ALLIS CHALMERS	286T	M	NO
TURBINE BUILDING VENT	1-667	GENERAL ELECTRIC	182T	M	NO NO
TURBINE BUILDING VENT	1-668	GENERAL ELECTRIC	182T	M	NO NO
TURBINE BUILDING VENT	19432	WESTINGHOUSE	0T2S01	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
TURBINE BUILDING VENT	19433	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19434	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19435	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19436	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19437	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19565	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	19566	WESTINGHOUSE	OT2	M	NO
TURBINE BUILDING VENT	33287	ASCO	8211C328	M	NO NO
TURBINE BUILDING VENT	33288	ASCO	8211C328	M	NO NO
TURBINE BUILDING VENT	3336701	JOHNSON	V-24-2	M	NO NO
TURBINE BUILDING VENT	3336702	JOHNSON	V-24-2	M	NO NO
TURBINE BUILDING VENT	3336801	JOHNSON	V-24-2	M	NO
TURBINE BUILDING VENT	3336802	JOHNSON	V-24-2	M	NO
TURBINE BUILDING VENT	3336901	JOHNSON	V-24-2	M	NO NO
TURBINE BUILDING VENT	3336902	JOHNSON	V-24-2	M	NO NO
TURBINE BUILDING VENT	3337001	JOHNSON	V-24-2	M	NO
TURBINE BUILDING VENT	3337002	JOHNSON	V-24-2	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
TURBINE BUILDING VENT	33371	ASCO	8211C32B	M	NO
TURBINE BUILDING VENT	33372	ASCO	8211C32B	M	NO
TURBINE BUILDING VENT	33454	JOHNSON	V-24 SAV	M	NO
TURBINE BUILDING VENT	33455	JOHNSON	V-24 SAV	M	NO
TURBINE BUILDING VENT	33456	JOHNSON	V-24 SAV	M	NO NO
TURBINE BUILDING VENT	33457	JOHNSON	V-24 SAV	M	NO NO
WASTE DISPOSAL	3113201	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3113301	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3113401	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3113501	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3113601	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3113701	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3121601	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	3121701	NAMCO	D-2400X	H2	YES (R)
WASTE DISPOSAL	33024	ASCO	LB 83146	H3	YES (R)
WASTE DISPOSAL	33072	ASCO	LB 831654	H3	YES (R)
WASTE DISPOSAL	33120	ASCO	LB 83146	H3	YES (R)
WASTE DISPOSAL	33143	ASCO	LB 83146	H3	YES (R)
WASTE DISPOSAL	33145	ASCO	LB 83146	H3	YES (R)
WASTE DISPOSAL	33146	ASCO	LB 83146	H3	YES (R)
WASTE DISPOSAL	33244	ASCO	FT8320A101	H3	YES (R)
WASTE DISPOSAL	33245	ASCO	FT8320A101	H3	YES (R)

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
4160V SUPPLY & DIST (EHV)	1E-0027	MCGRAW EDISON	PSD	M	NO NO
4160V SUPPLY & DIST (EHV)	1E-0028	MCGRAW EDISON	PSD	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0120	ALLIS CHALMERS	LA	M	NO
480V SUPPLY & DISTRIBUTION	1E-0121	ALLIS CHALMERS	LA	M	NO
480V SUPPLY & DISTRIBUTION	1E-0122	ALLIS CHALMERS	LA	M	NO
480V SUPPLY & DISTRIBUTION	1E-0123	ALLIS CHALMERS	LA	M	NO
480V SUPPLY & DISTRIBUTION	1E-0326	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0327	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0328	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0329	GENERAL ELECTRIC	7700 SERIES	M	NO
480V SUPPLY & DISTRIBUTION	1E-0330	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0331	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0332	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0333	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0334	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0335	GENERAL ELECTRIC	7700 SERIES	M	NO NO
480V SUPPLY & DISTRIBUTION	1E-0336	GENERAL ELECTRIC	7700 SERIES	M	NO

TABLE E-2

SYSTEM	PLANT ID	MANUFACTURER	MODEL NUMBER	EQ TYPE	HARSH
480V SUPPLY & DISTRIBUTION	1E-0633	SQUARE D	=4	M	NO
480V SUPPLY & DISTRIBUTION	1E-0634	SQUARE D	=4	M	NO
480V SUPPLY & DISTRIBUTION	1E-0635	SQUARE D	=4	M	NO
480V SUPPLY & DISTRIBUTION	1E-0662	SQUARE D	4	M	NO

01270 RECORDS RETRIEVED FOR THIS REQUEST

TABLE E-3ELECTRICAL EQUIPMENT IMPORTANT TO SAFETY (per 10CFR50.49)MANUFACTURER SORT

NOTES ON USE:

1. Manufacturers are listed in alphabetic order. Model numbers from each manufacturer are listed in alphanumeric order. Plant ID's are listed in numerical order under each model number.
2. Limitorque valve motor operators are listed twice: once by 5-digit instrument number and once by electrical motor number (1-XXX). No other equipment is listed twice.
3. If you do not find equipment listed in this appendix, then its EQ Type is "N".

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
AGASTAT	2412	62-1/1-318	M	NO
AGASTAT	2412	62-2/1-318	M	NO
ALCO	240RA9T7T	33707	M	YES (H,T)
ALCO	240RA9T7T	33713	M	YES (H,T)
ALLEN BRADLEY	BUILT PER SPEC	1E-0530	M	NO NO
ALLEN BRADLEY	802T-AT	3401102	M	NO
ALLEN BRADLEY	802T-AT	3401202	M	NO
ALLEN BRADLEY	802T-AT	3238201	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238202	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238301	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238302	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238402	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238501	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238502	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238601	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238602	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238702	H2	YES (R)
ALLEN BRADLEY	802T-AT	3400601 =	H2	YES (R)
ALLEN BRADLEY	802T-AT	3400602	H2	YES (R)
ALLEN BRADLEY	802T-AT	3403301 =	H2	YES (R)
ALLEN BRADLEY	802T-AT	3403302 =	H2	YES (R)
ALLEN BRADLEY	802T-AT	3403902	H2	YES (R)
ALLEN BRADLEY	802T-AT	3404002	H2	YES (R)
ALLEN BRADLEY	802T-AT	3403901	H2	YES (R)
ALLEN BRADLEY	802T-AT	3404001	H2	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ALLEN BRADLEY	802T-AT	3238701	H2	YES (R)
ALLEN BRADLEY	802T-AT	3238401	H2	YES (R)
ALLIED ELECTRONICS	703-0503	8103331	M	NO
ALLIS CHALMERS		1-463	M	NO
ALLIS CHALMERS	LA	1E-0120	M	NO
ALLIS CHALMERS	LA	1E-0121	M	NO
ALLIS CHALMERS	LA	1E-0122	M	NO
ALLIS CHALMERS	LA	1E-0123	M	NO
ALLIS CHALMERS	LA-600 EO-A	52A/16105	M	NO
ALLIS CHALMERS	LA-600 EO-A	52A/15105	M	NO
ALLIS CHALMERS	145T	1-280	M	NO NO
ALLIS CHALMERS	145T	1-281	M	NO NO
ALLIS CHALMERS	182T	1-464	M	NO NO
ALLIS CHALMERS	286T	1-451	M	NO
ALLIS CHALMERS	286T	1-452	M	NO
ALLIS CHALMERS	445TS	1-107	H2	YES (R)
ALLIS CHALMERS	445TS	1-148	H2	YES (R)
ALLIS CHALMERS	507US	1-024	M	NO NO
ALLIS CHALMERS	507US	1-031	M	NO NO
ALLIS CHALMERS	580888	1-022	M	NO NO
ALLIS CHALMERS	580888	1-023	M	NO NO
ALLIS CHALMERS	580888	1-029	M	NO NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ALLIS CHALMERS	580888	1-030	M	NO NO
ALPHA	5515	ALP-1	M	NO
AMPHENOL	82-816-1000HN	AMP-1	H1	YES (T,P,H,R,CS)
ASCO	FT8320A101	33244	H3	YES (R)
ASCO	FT8320A101	33245	H3	YES (R)
ASCO	HTX-8302C26F SOL. CAT. NO. 80173	33435	M	NO
ASCO	HTX-8302C26F SOL. CAT. NO. 80173	33446	M	NO
ASCO	HTX8302B26F	33330	H3	YES (R)
ASCO	HTX8302B26F	33331	H3	YES (R)
ASCO	HTX8302C26F	33326	H3	YES (R)
ASCO	HTX8302C26F	33378	H3	YES (R)
ASCO	HTX8302C26F	33379	H3	YES (R)
ASCO	HTX8302C26F	33248	H3	YES (R)
ASCO	JVA212-631-4RU	33716	H3	YES (R)
ASCO	JVA212-631-4RU	33718	H3	YES (R)
ASCO	LB 83146	33024	H3	YES (R)
ASCO	LB 83146	33120	H3	YES (R)
ASCO	LB 83146	33143	H3	YES (R)
ASCO	LB 83146	33145	H3	YES (R)
ASCO	LB 83146	33146	H3	YES (R)
ASCO	LB 83146	33159	H3	YES (R)
ASCO	LB 831654	33072	H3	YES (R)
ASCO	LB-83146	33171	M	NO
ASCO	LB-83146	33093	H3	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EO TYPE	HARSH
ASCO	LB-83146	33137	H3	YES (R)
ASCO	LB-83146	33170	H3	YES (R)
ASCO	LB-831654	33192	H3	YES (R)
ASCO	LB8300861RU	33077	H3	YES (R)
ASCO	LB8300861RU	33078	H3	YES (R)
ASCO	LB8300861RU	33074	H3	YES (T,R)
ASCO	LB8300861RU	33075	H3	YES (T,R)
ASCO	LB8300C58RU	33082	H3	YES (R)
ASCO	LB8300C58RU	33083	H3	YES (R)
ASCO	LB8300C58RU	33080	H3	YES (T,R)
ASCO	LB8300C58RU	33081	H3	YES (T,R)
ASCO	LB83146	33017	H3	YES (P)
ASCO	NP831655E	33717	H1	YES (R)
ASCO	NP831655E	33719	H1	YES (R)
ASCO	NP8320A176E	33256	H1	YES (R)
ASCO	WP-8015831	33181	H3	YES (T,H)
ASCO	WP-8015831	33182	H3	YES (T,H)
ASCO	WP-8015831	33183	H3	YES (T,H)
ASCO	WP-8015831	33184	H3	YES (T,H)
ASCO	WP-8015C21	33177	H3	YES (T,H)
ASCO	WP-8015C21	33178	H3	YES (T,H)
ASCO	WP-8015C21	33185	H3	YES (T,H)
ASCO	WP-8015D21	33186	H3	YES (T,H)
ASCO	8211C32B	33287	M	NO NO
ASCO	8211C32B	33288	M	NO NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ASCO	8211C328	33302	M	NO
ASCO	8211C328	33307	M	NO
ASCO	8211C328	33308	M	NO
ASCO	8211C328	33313	M	NO
ASCO	8211C328	33371	M	NO
ASCO	8211C328	33372	M	NO
ASCO	8211C328	33303	H3	YES (R)
ASCO	8211C328	33304	H3	YES (R)
ASCO	8300C61	33641	M	NO NO
ASCO	8302C26	33325	H3	YES (R)
ASCO	8302C26	33291	O	YES (T,H,R)
ASCO	8302C26	33292	O	YES (T,H,R)
ASCO	8302C26F	33385	H3	YES (R)
ASCO	8302C26F	33386	H3	YES (R)
ASCO	8302C26F	33387	H3	YES (R)
ASCO	8302C26RF	33016	H3	YES (T,P,H,CS,R)
ASCO	8302C29	33040	M	NO NO
ASCO	8302C29	33041	M	NO NO
ASCO	8302C4	33416	M	NO
ASCO	8302C4	33417	M	NO
ASCO	8302C4	33419	M	NO
ASCO	8302C4	33420	M	NO
ASCO	8302C4	33418	H3	YES (R)
ASCO	8302C4	33421	H3	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ASCO	8302C4	33422	H3	YES (R)
ASCO	8302C4	33425	H3	YES (R)
ASCO	8302C4	33426	H3	YES (R)
ASCO	8302C4	33158	H3	YES (T,P,H,CS,R)
ASCO	8302C4F	33427	M	NO
ASCO	8302C4F	33449	M	NO
ASCO	8302C4F	33428	H3	YES (R)
ASCO	830281RF	33086	M	NO
ASCO	830281RF	33087	M	NO
ASCO	8316854	33030	H3	YES (T,P,H,CS,R)
ASCO	8316854	33274	H3	YES (T,P,H,CS,R)
ASCO	831654	33193	H3	YES (R)
ASCO	831654	33199	H3	YES (T,P,H,CS,R,S)
ASCO	831654	33200	H3	YES (T,P,H,CS,R,S)
ASCO	831654	33201	H3	YES (T,P,H,CS,R,S)
ASCO	8320A185	33710	H3	YES (R)
ASCO	8320A19	33033	M	NO NO
ASCO	8320A19	33034	M	NO NO
ASCO	8320B13	33695	M	NO
ASCO	8320B13	33709	M	NO
ASCO	832318	33323	M	NO NO
ASCO	832318	33324	M	NO
ASCO	8344862	33043	M	NO
ASCO	8344862	33044	M	NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EO TYPE	HARSH
ASHCROFT	84208/0-20	16114	M	NO
ASHCROFT	84208/0-20	16937	M	NO
ASHCROFT	4410A31-02L	16085	M	NO
ATHENA CONTROLS	P/N 74-6	8103301	M	NO
ATHENA CONTROLS	P/N 74-6	8103314	M	NO
ATHENA CONTROLS	P/N 74-6	8103327	M	NO
ATHENA CONTROLS	74-6	6400101	M	NO
ATHENA CONTROLS	74-6	6400102	M	NO
ATHENA CONTROLS	74-6	6400103	M	NO
BARBER-COLMAN CO.	P/N MA-405-500	32392	M	NO
BARBER-COLMAN CO.	P/N MA-405-500-0-1	32393	M	NO
BARNES	BUILT PER SPEC	1E-0483	M	NO
BARNES	BUILT PER SPEC	1E-0484	M	NO
BARNES	BUILT PER SPEC	1E-0485	M	NO
BARNES	BUILT PER SPEC	1E-0488	M	NO
BARNES	BUILT PER SPEC	1E-0493	M	NO
BARNES	BUILT PER SPEC	1E-0494	M	NO
BARNES	BUILT PER SPEC	1E-0495	M	NO
BARNES	BUILT PER SPEC	1E-0498	M	NO
BARNES	BUILT PER SPEC	1E-0562	M	YES (T,H)
BARTON	288A	16427	H2	YES (R)
BARTON	288A	16428	H2	YES (R)
BARTON	289A	16416	H2	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
BARTON	289A	16417	H2	YES (R)
BARTON	290A	11267	M	NO
BARTON	290A	11268	M	NO
BARTON	332	24062 =	H2	YES (R)
BARTON	332/305/351	24023	M	NO
BARTON	332/305/351	24024	M	NO
BARTON	332/305/351	24025	M	NO
BARTON	332/305/351	24026	M	NO
BARTON	332/305/351	24027	M	NO
BARTON	332/305/351	24028	M	NO
BARTON	332/305/351	24038	M	NO
BARTON	332/305/351	24039	M	NO
BARTON	384	24029	H2	YES (T, P, H, CS, R) YES (R)
BARTON	386/351	24030 =	H2	YES (T, P, H, CS, R) YES (R)
BARTON	386/351	24031 =	H2	YES (T, P, H, CS, R) YES (R)
BARTON	386/351	24032 =	H2	YES (T, P, H, CS, R) YES (R)
BELDEN	8777	BEL-3	M	YES (T, R)
BETTIS	RX 321	3103802	M	NO
BETTIS	RX 321	3104002	M	NO
BOSTON INSULATE WIRE	BOSTRAD 7	BIW-1	H2	YES (T, P, H, CS, R, S)
BRAND REX	HYPALON JACKET	BREX-1	H1	YES (T, P, H, R, CS)
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0242	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0243	M	NO

TABLE F-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0269	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0270	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0272	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0273	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0274	M	NO NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0275	M	NO NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0575	M	NO
BRIGGS ELECTRIC	BUILT PER SPEC	1E-0576	M	NO
C & D	ARR130HK150F3E	1-125	M	NO NO
C & D	ARR130HK150F3E	1-143	M	NO NO
C & D	LCU-25	1E-0539	M	NO NO
CHEVRON	BRB-2 SRI-2	G-7	H2	YES (T, P, H, CS, R, S)
CHROMALOX		1-238	H2	YES (R)
CHROMALOX		1-239	H2	YES (R)
CHROMALOX		1-449	H2	YES (R)
CHROMALOX		1-450	H2	YES (R)
CLARK	PM	42AX/1-164	M	NO
CLARK	PM	42AX/1-201	M	NO
CLARK	PM	42AX/1-211	M	NO
CLARK	PM	42X/1-667	M	NO
CLARK	PM	42X2/1-668	M	NO
CLARK	PM	42X/1-144	M	NO
CLARK	PM	52HX/15108	M	NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
CLARK	PM	52HX/16108	M	NO
CLARK	PM 5U4	42AX/1-583	M	NO
CLARK	PM 5U4+2	42AX/1-298	M	NO
CLARK	PM 5U6	52X/16104	M	NO
CLARK	PM 5U6	52X/15104	M	NO
CLARK	PM-5U4-2	42AX/1-131	M	NO
CLARK	PM-5U4-2	42AX/1-601	M	NO
CLARK	PM-5U4-2AND 5U2	42AX/1-602	M	NO
CLARK	5U4-2-76	42X/1-126	M	NO
COMMONWEALTH	BUILT PER SPEC	1E-0519	M	NO
COMMONWEALTH	BUILT PER SPEC	1E-0520	M	NO NO
COMMONWEALTH	BUILT PER SPEC	1E-0521	M	NO NO
COMMONWEALTH	BUILT PER SPEC	1E-0522	M	NO NO
COMMONWEALTH	BUILT PER SPEC	1E-0523	M	NO NO
COMMONWEALTH	BUILT PER SPEC	1E-0524	M	NO
COMMONWEALTH	BUILT PER SPEC	1E-0541	M	NO
COMMONWEALTH	BUILT PER SPEC	1E-0542	M	NO
COMSIP/DELPHI	III	25019	M	NO
COMSIP/DELPHI	III	25020	M	NO
COMSIP/DELPHI	III	28107	M	NO
COMSIP/DELPHI	III	28108	M	NO
COMSIP/DELPHI	III	41615	M	NO
COMSIP/DELPHI	III	41616	M	NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
COMSTOCK	BUILT PER SPEC	1E-0486	M	NO
COMSTOCK	BUILT PER SPEC	1E-0496	M	NO
CONAX	N-11001-31 N-21031	3123110	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3123111	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3123210	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3123211	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3123310	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3123311	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3126310	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3126311	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3126410	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3126411	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3127010	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3127011	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3133410	H1	YES (T,P,H,CS,R)
CONAX	N-11001-31 N-21031	3133411	H1	YES (T,P,H,CS,R)
CONAX	N-11006-35	2300110	H1	YES (T,P,H,CS,R)
CONAX	N-11006-35	2300210	H1	YES (T,P,H,CS,R)
CONAX	N-11006-35	2300510	H1	YES (T,P,H,CS,R)
CONAX	N-11006-35	2300710	H1	YES (T,P,H,CS,R)
CONAX	N-11006-45	3112410	H1	YES (T,P,H,CS,R)
CONAX	N-11006-45	3112411	H1	YES (T,P,H,CS,R)
CONAX	N-11006-45	3112610	H1	YES (T,P,H,CS,R)
CONAX	N-11006-45	3112611	H1	YES (T,P,H,CS,R)
CONAX	SALL	3365810	H1	YES (T,P,H,R,CS)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
CONAX	S111	3365910	H1	YES (T,P,H,R,CS)
CONAX	S111	3366010	H1	YES (T,P,H,R,CS)
CONAX	S111	3366110	H1	YES (T,P,H,R,CS)
CONAX	S111	3366210	H1	YES (T,P,H,R,CS)
CONAX	S111	3366310	H1	YES (T,P,H,R,CS)
CONAX	2323-9708-01	15302	H1	YES (T,P,H,R,CS)
D. G. O'BRIEN	CRDP (PR-7)	DGO-3	H2	YES (T,P,H,CS,R)
D. G. O'BRIEN	I&C (PR-8)	DGO-6	H2	YES (T,P,H,CS,R) YES (T,H)
D. G. O'BRIEN	LVP (PR-12)	DGO-2	H2	YES (T,P,H,CS,R) YES (T,H)
D. G. O'BRIEN	MVP (PR-110)	DGO-1	H2	YES (T,P,H,CS,R)
D. G. O'BRIEN	NIS (PR-2)	DGO-4	H2	YES (T,P,H,CS,P) YES (T,H)
D. G. O'BRIEN	RM (PR-11)	DGO-5	H2	YES (T,P,H,CS,R)
D. G. O'BRIEN	SEE OTHER SHEETS FOR THIS MANUFACTURER	1E-0564	H2	YES (T,P,H,CS,R)
D.G. O'BRIEN	R19P1010G05	DGO-7	H2	YES (T,P,H,R,CS)
DOERR	3N228E	1-898	M	NO
DWYER	1638-1	16472	M	NO
DWYER	1638-1	16473	M	NO
DWYER	1638-1	16474	M	NO
DWYER	3001	32375-1	U	YES (R)
DWYER	3001	32377-1	U	YES (R)
DWYER	3001	32378-1	U	YES (R)
DWYER	3001	32380-1	U	YES (R)
DWYER	3004	32376-1	U	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
DWYER	3004	32379-1	U	YES (R)
EBERLINE	CLI-1	2907102	M	NO
EBERLINE	CLI-1	2907103	M	NO
EBERLINE	CLI-1	2907202	M	NO
EBERLINE	CLI-1	2907203	M	NO
EBERLINE	CLI-1	8102602	M	NO
EBERLINE	CLI-1	8102603	M	NO
EBERLINE	CLI-1	8102902	M	NO
EBERLINE	CLI-1	8102903	M	NO
EBERLINE	CLI-1	810300	M	NO
EBERLINE	CLI-1	8103002	M	NO
EBERLINE	CLI-1	8102502	H3	YES (T)
EBERLINE	CLI-1	8102503	H3	YES (T)
EBERLINE	CLI-1	8102702	H3	YES (T)
EBERLINE	CLI-1	8102703	H3	YES (T)
EBERLINE	CLI-1	8102802	H3	YES (T)
EBERLINE	CLI-1	8102803	H3	YES (T)
EBERLINE	CT-1	8103101	M	NO
EBERLINE	CT-1	8103201	H3	YES (T)
EBERLINE	DAM-4	8102601	H3	NO
EBERLINE	DAM-4	8102901	M	NO
EBERLINE	DAM-4	8103001	M	NO
EBERLINE	SPING-4	2907101	M	NO
EBERLINE	SPING-4	2907201	M	NO
ELECTRO-SWITCH	SERIES 20K	19651	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ELECTRO-SWITCH	SERIES 20K	19652	M	NO
ELECTRO-SWITCH	SERIES 20K	19653	M	NO
ELECTRO-SWITCH	SERIES 20K	19654	M	NO
ELECTRO-SWITCH	20K00904S3-034	19530	M	NO
ELECTRO-SWITCH	20K00904S3-034	19531	M	NO
ENDEVCO	2273AM20	27096	O	YES (T, P, H, R, CS)
ENDEVCO	2273AM20	27097	O	YES (T, P, H, R, CS)
ENDEVCO	2273AM20	27098	O	YES (T, P, H, R, CS)
ENDEVCO	2273AM20	27099	O	YES (T, P, H, R, CS)
ENDEVCO	3075M-360	END-2	O	YES (T, P, H, R, CS)
ENDEVCO	3075M6-120	END-3	O	YES (T, P, H, R, CS)
ENDEVCO	3075M6-240	END-1	O	YES (T, P, H, R, CS)
FENWAL	18000-0	1639801	H2	YES (R)
FENWAL	18000-0	1639802	H2	YES (R)
FENWAL	18000-0	1639901	H2	YES (R)
FENWAL	18000-0	1639902	H2	YES (R)
FLUID COMPONENTS INC	FR70	18320	M	NO
FLUID COMPONENTS INC	FR78-4	18319	M	NO
FLUID COMPONENTS INC	FR78-4	27100	M	NO
FLUID COMPONENTS INC	FR78-4	5163438	M	NO
FOXBORO	BUILT PER SPEC	1E-0205	M	NO
FOXBORO	BUILT PER SPEC	1E-0206	M	NO
FOXBORO	BUILT PER SPEC	1E-0207	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	FQ TYPE	HARSH
FOXBORO	BUILT PER SPEC	1E-0208	M	NO
FOXBORO	BUILT PER SPEC	1E-0211	M	NO
FOXBORO	BUILT PER SPEC	1E-0212	M	NO
FOXBORO	BUILT PER SPEC	1E-0213	M	NO
FOXBORO	BUILT PER SPEC	1E-0214	M	NO
FOXBORO	BUILT PER SPEC	1E-0577	M	NO
FOXBORO	BUILT PER SPEC	1E-0578	M	NO
FOXBORO	BUILT PER SPEC	1E-0579	M	NO
FOXBORO	BUILT PER SPEC	1E-0580	M	NO
FOXBORO	N-E11DM-HIBI-AE	21100 =	H1	YES (R)
FOXBORO	N-E11DM-HIBI-AE	21101 =	H1	YES (R)
FOXBORO	N-E11DM-HIBI-AE	21102 =	H1	YES (R)
FOXBORO	N-E11DM-HIBI-AE	21117	H1	YES (R)
FOXBORO	N-E11DM-HIBI-AE	21118	H1	YES (R)
FOXBORO	N-E11DM-HIBI-AE	21119	H1	YES (R)
FOXBORO	N-E11GH-HIM2-E	21038	H1	YES (T,P,H,CS,R)
FOXBORO	N-E11GH-HIM2-E	21077	H1	YES (T,P,H,CS,R)
FOXBORO	N-E11GM-HIA1-E	24067	H1	YES (R)
FOXBORO	N-E11GM-HIB1-E	24040 =	H1	YES (R)
FOXBORO	N-E11GM-HID1-E	21084 =	H1	YES (R)
FOXBORO	N-E11GM-HID1-E	21085 =	H1	YES (R)
FOXBORO	N-E11GM-HID1-E	21114	H1	YES (R)
FOXBORO	N-E11GM-HID1-E	21115	H1	YES (R)
FOXBORO	N-E11GM-HIE1-E	21094	H1	YES (T,H)
FOXBORO	N-E11GM-HIE1-E	21095	H1	YES (T,H)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
FOXBORO	N-E11GM-HI1-E	21096	H1	YES (T,H)
FOXBORO	N-E11GM-HI1-E	21097	H1	YES (T,H)
FOXBORO	N-E11GM-HI1-E	21098	H1	YES (T,H)
FOXBORO	N-E11GM-HI1-E	21099	H1	YES (T,H)
FOXBORO	N-E11GM-HI1-E	21079 =	H1	YES (T,P,H,CS,R)
FOXBORO	N-E11GM-HI1-E	21080 =	H1	YES (T,P,H,CS,R)
FOXBORO	N-E11GM-HI1-E	21081 =	H1	YES (T,P,H,CS,R)
FOXBORO	N-E11GM-HI1-E	21082 =	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24042	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24043	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24044	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24046	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24047	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DH-HI1-E	24048	H1	YES (T,P,H,CS,R)
FOXBORO	N-E13DM-HI1-E	23030	H1	YES (R)
FOXBORO	N-2AI-12V	4812101	M	NO
FOXBORO	N-2AI-P2V	4813801	M	NO
FOXBORO	N-2AO-VAI	4811301	M	NO
FOXBORO	N-2AX-DIO	48127	M	NO
FOXBORO	N-2AX-DIO	48128	M	NO
FOXBORO	N-2AX-DIO	48106	M	NO
FOXBORO	N-2AX-DIO	48123	M	NO
FOXBORO	N-226S	42599	M	NO
FOXBORO	N-226S	42600	M	NO
FOXBORO	N226S	42597	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
FOXBORO	N226S	42598	M	NO
FOXBOPO	RDF STANDARD	15254	M	NO
FOXBORO	RDF STANDARD	15255	M	NO
FOXBORO	RDF STANDARD	15256	M	NO
FOXBORO	RDF STANDARD	15257	M	NO
FOXBORO	RDF STANDARD	15258	M	NO
FOXBORO	RDF STANDARD	15259	M	NO
FOXBORO	RDF STANDARD	15263	M	NO
FOXBORO	RDF STANDARD	15265	M	NO
FOXBORO	RDF STANDARD	15266	M	NO
FOXBORO	RDF STANDARD	15267	M	NO
FOXBORO	RDF STANDARD	15268	M	NO
FOXBORO	RDF STANDARD	15269	M	NO
FOXBORO	RDF STANDARD	15272	M	NO
FOXBORO	RDF STANDARD	15274	M	NO
FOXBORO	PDF STANDARD	15275	M	NO
FOXBORO	RDF STANDARD	15276	M	NO
FOXBORO	RDF STANDARD	15277	M	NO
FOXBORO	RDF STANDARD	15280	M	NO
FOXBORO	RDF STANDARD	15281	M	NO
FOXBORO	RDF STANDARD	15282	M	NO
FOXBORO	RDF STANDARD	15283	M	NO
FOXBORO	RDF STANDARD	15284	M	NO
FOXBORO	RDF STANDARD	15285	M	NO
FOXBORO	RDF STANDARD	15286	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
FOXBORO	RDF STANDARD	15264	H3	YES (T,H)
FOXBORO	RDF STANDARD	15273	H3	YES (T,H)
FOXBORO	RDF STANDARD	15279	H3	YES (T,H)
FOXBORO	2AI-12V	4810401	M	NO
FOXBORO	62H-2E	4840209	M	NO
FOXBORO	62H-2E	4840215	M	NO
GEMS TLI TRANSAMERICA	RE-36562	35073	H1	NO
GEMS TLI TRANSAMERICA	RE-36562	35074	H1	NO
GEMS TLI TRANSAMERICA	XM-54852	2407001	H1	YES (T,P,H,R,CS)
GEMS TLI TRANSAMERICA	XM-54852	2407101	H1	YES (T,P,H,R,CS)
GEMS TLI TRANSAMERICA	XM-54853	2407002	H1	YES (T,P,H,R,CS)
GEMS TLI TRANSAMERICA	XM-54853	2407003	H1	YES (T,P,H,R,CS)
GEMS TLI TRANSAMERICA	XM-54853	2407102	H1	YES (T,P,H,R,CS)
GEMS TLI TRANSAMERICA	XM-54853	2407103	H1	YES (T,P,H,R,CS)
GENERAL ATOMICS	RD-23	2906401	H1	YES (T,P,H,R,CS)
GENERAL ATOMICS	RD-23	2906501	H1	YES (T,P,H,R,CS)
GENERAL ATOMICS	RP-2C	48143	M	NO
GENERAL ATOMICS	RP-2C	48144	M	NO
GENERAL ATOMICS	RP-23	48997	M	NO
GENERAL ATOMICS	RP-23	48998	M	NO
GENERAL ELECTRIC	CR120B02222	42AX/1-136	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
GENERAL ELECTRIC	CR120802222	42AX/1-183	M	NO
GENERAL ELECTRIC	CR120802222	42AX/1-299	M	NO
GENERAL ELECTRIC	CR120802222	42AX/1-584	M	NO
GENERAL ELECTRIC	EB5 & EB25	GEN-3	H1	YES (T,P,H,CS,R)
GENERAL ELECTRIC	EB5, EB25	GEN-2	H1	YES (T,P,H,CS,R)
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-506	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-507	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-608	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-609	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-508	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-606	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-502	M	NO
GENERAL ELECTRIC	012881720 SB-1 GROUP 1	52SA/1-605	M	NO
GENERAL ELECTRIC	182T	1-667	M	NO NO
GENERAL ELECTRIC	182T	1-668	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0326	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0327	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0328	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0329	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
GENERAL ELECTRIC	7700 SERIES	1E-0334	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0335	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0336	M	NO
GENERAL ELECTRIC	7700 SERIES	42A/1-116	M	NO
GENERAL ELECTRIC	7700 SERIES	42A/1-118	M	NO
GENERAL ELECTRIC	7700 SERIES	1E-0330	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0331	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0332	M	NO NO
GENERAL ELECTRIC	7700 SERIES	1E-0333	M	NO NO
JOHNSON	D-3200	32375	U	YES (R) NO
JOHNSON	D-3200	32376	U	YES (R)
JOHNSON	D-3200	32377	U	YES (R)
JOHNSON	D-3200	32378	U	YES (R)
JOHNSON	D-3200	32379	U	YES (R)
JOHNSON	D-3200	32380	U	YES (R)
JOHNSON	M81ACA-3	32367	M	NO
JOHNSON	M81ACA-3	32368	M	NO
JOHNSON	M81ACA-3	32370	M	NO NO
JOHNSON	M81ACA-3	32371	M	NO NO
JOHNSON	M81ACA-3	32374	M	NO
JOHNSON	M81ACA-3	32382	H2	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ. TYPE	HARSH
JOHNSON	M81ACA-3	32383	H2	YES (R)
JOHNSON	M81ACA-3	32384	H2	YES (R)
JOHNSON	M81ACA-3	32385	H2	YES (R)
JOHNSON	M81ACA-3	32386	H2	YES (R)
JOHNSON	M81ACA-3	32387	H2	YES (R)
JOHNSON	PC-4000	32375-2	U	YES (R)
JOHNSON	PC-4000	32376-2	U	YES (R)
JOHNSON	PC-4000	32377-2	U	YES (R)
JOHNSON	PC-4000	32378-2	U	YES (R)
JOHNSON	PC-4000	32379-2	U	YES (R)
JOHNSON	PC-4000	32380-2	U	YES (R)
JOHNSON	TZ5000-2	32375-3	U	YES (R)
JOHNSON	TZ5000-2	32376-3	U	YES (R)
JOHNSON	TZ5000-2	32377-3	U	YES (R)
JOHNSON	TZ5000-2	32378-3	U	YES (R)
JOHNSON	TZ5000-2	32379-3	U	YES (R)
JOHNSON	TZ5000-2	32380-3	U	YES (R)
JOHNSON	V-24	33094	M	NO NO
JOHNSON	V-24	33260	M	NO
JOHNSON	V-24	3326101	M	NO
JOHNSON	V-24	3326102	M	NO
JOHNSON	V-24	3326301	M	NO
JOHNSON	V-24	3326302	M	NO
JOHNSON	V-24	3326401	M	NO
JOHNSON	V-24	3326402	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
JOHNSON	V-24	3327001	M	NO
JOHNSON	V-24	3327002	M	NO
JOHNSON	V-24	33434	M	NO
JOHNSON	V-24	33436	M	NO
JOHNSON	V-24	33437	M	NO
JOHNSON	V-24	33438	M	NO
JOHNSON	V-24	33439	M	NO
JOHNSON	V-24	33440	M	NO
JOHNSON	V-24	33441	M	NO NO
JOHNSON	V-24	33442	M	NO NO
JOHNSON	V-24	33443	M	NO
JOHNSON	V-24	33444	M	NO
JOHNSON	V-24	33445	M	NO
JOHNSON	V-24	33447	M	NO
JOHNSON	V-24	33448	M	NO
JOHNSON	V-24	33450	M	NO
JOHNSON	V-24	33451	M	NO
JOHNSON	V-24	33252	H3	YES (R)
JOHNSON	V-24	33254	H3	YES (R)
JOHNSON	V-24	33255	H3	YES (R)
JOHNSON	V-24	33257	H3	YES (R)
JOHNSON	V-24	33259	H3	YES (R)
JOHNSON	V-24	3326201	H3	YES (R)
JOHNSON	V-24	3326202	H3	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
JOHNSON	V-24	33267	H3	YES (R)
JOHNSON	V-24	3326801	H3	YES (R)
JOHNSON	V-24	3326802	H3	YES (R)
JOHNSON	V-24	33271	H3	YES (R)
JOHNSON	V-24	33289	H3	YES (R)
JOHNSON	V-24	33290	H3	YES (R)
JOHNSON	V-24	33328	H3	YES (R)
JOHNSON	V-24	33329	H3	YES (R)
JOHNSON	V-24	33366	H3	YES (R)
JOHNSON	V-24	3343301	H3	YES (T,H)
JOHNSON	V-24	3343302	H3	YES (T,H)
JOHNSON	V-24	33452	H3	YES (T,H)
JOHNSON	V-24	33453	H3	YES (T,H)
JOHNSON	V-24 SAV	33454	M	NO
JOHNSON	V-24 SAV	33455	M	NO
JOHNSON	V-24 SAV	33456	M	NO NO
JOHNSON	V-24 SAV	33457	M	NO NO
JOHNSON	V-24-2	3336701	M	NO NO
JOHNSON	V-24-2	3336702	M	NO NO
JOHNSON	V-24-2	3336801	M	NO
JOHNSON	V-24-2	3336802	M	NO
JOHNSON	V-24-2	3336901	M	NO NO
JOHNSON	V-24-2	3336902	M	NO NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
JOHNSON	V-24-2	3337001	M	NO
JOHNSON	V-24-2	3337002	M	NO
JOHNSON	V-5840	32143	M	NO
JOHNSON	V-5840	32144	M	NO NO
KERITE	FR INSUL/HTK INSUL	KER-1	H2	YES (T,P,H,CS,R,S)
KERITE	SEE NOTE A	KER-2	H2	YES (T,P,H,CS,R)
LABARGE	MIL-W-81381-12-14	LABARGE-1	H1	YES (T,H,R)
LIMITORQUE	SB-00 O/N 389375B	1-871	H1	YES (R)
LIMITORQUE	SB-00 O/N 389375B	1-872	H1	YES (R)
LIMITORQUE	SB-00 O/N 389375B	32390	H1	YES (R)
LIMITORQUE	SB-00 O/N 389375B	32391	H1	YES (R)
LIMITORQUE	SMB 1-40	1-373	H1	YES (R)
LIMITORQUE	SMB 1-40	1-374	H1	YES (R)
LIMITORQUE	SMB 1-40	1-375	H1	YES (R)
LIMITORQUE	SMB 1-40	1-376	H1	YES (R)
LIMITORQUE	SMB-00	32069	H1	YES (R)
LIMITORQUE	SMB-000	32060	H1	YES (R)
LIMITORQUE	SMB-0	1-353	H1	YES (R)
LIMITORQUE	SMB-0	1-366	H3	YES (R) NO
LIMITORQUE	SMB-0	1-367	H3	YES (R) NO
LIMITORQUE	SMB-0	1-379	H1	YES (R)
LIMITORQUE	SMB-0	1-380	H1	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-0	32111 =	H1	YES (R)
LIMITORQUE	SMB-0	32112 =	H1	YES (R)
LIMITORQUE	SMB-0	32109 = *	H3	YES (R) NO
LIMITORQUE	SMB-0	32110 = *	H3	YES (R) NO
LIMITORQUE	SMB-0	32115 = *	H1	YES (R)
LIMITORQUE	SMB-00	1-365	M	NO
LIMITORQUE	SMB-00	32083	M	NO
LIMITORQUE	SMB-00	32009 *	M	NO
LIMITORQUE	SMB-00	32010 *	M	NO
LIMITORQUE	SMB-00	1-130	H1	YES (R)
LIMITORQUE	SMB-00	1-140	H1	YES (R)
LIMITORQUE	SMB-00	1-321	H3	YES (R)
LIMITORQUE	SMB-00	1-359	H3	YES (R)
LIMITORQUE	SMB-00	1-36A	H3	YES (R) NO
LIMITORQUE	SMB-00	1-370	H3	YES (R) NO
LIMITORQUE	SMB-00	1-381	H1	YES (R)
LIMITORQUE	SMB-00	1-382	H1	YES (R)
LIMITORQUE	SMB-00	1-387	H3	YES (R)
LIMITORQUE	SMB-00	1-388	H3	YES (R)
LIMITORQUE	SMB-00	1-419	H1	YES (R)
LIMITORQUE	SMB-00	1-420	H1	YES (R)
LIMITORQUE	SMB-00	1-421	H1	YES (R)
LIMITORQUE	SMB-00	1-422	H1	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-00	1-430	H1	YES (R)
LIMITORQUE	SMB-00	1-433	H1	YES (R)
LIMITORQUE	SMB-00	32088	H3	YES (R)
LIMITORQUE	SMB-00	32094 =	H1	YES (R)
LIMITORQUE	SMB-00	32095	H1	YES (R)
LIMITORQUE	SMB-00	32104 =	H3	YES (R) NO
LIMITORQUE	SMB-00	32105 =	H3	YES (R) NO
LIMITORQUE	SMB-00	32106	H3	YES (R)
LIMITORQUE	SMB-00	32107 =	H3	YES (R)
LIMITORQUE	SMB-00	32108 =	H3	YES (R)
LIMITORQUE	SMB-00	32125	H1	YES (R)
LIMITORQUE	SMB-00	32126	H1	YES (R)
LIMITORQUE	SMB-00	32130 =	H1	YES (R)
LIMITORQUE	SMB-00	32131 =	H1	YES (R)
LIMITORQUE	SMB-00	32134 =	H3	YES (R)
LIMITORQUE	SMB-00	32066 *	H1	YES (R)
LIMITORQUE	SMB-00	32067 *	H1	YES (R)
LIMITORQUE	SMB-00	32068 *	H1	YES (R)
LIMITORQUE	SMB-00	1-342	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	1-355	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	1-356	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	1-383	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	1-384	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	1-385	H1	YES (T,P,H,CS,R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-00	1-386	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32089	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32090	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32092 =	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32093	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32097 =	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32098	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-00	32124 =	H1	YES (T,P,H,CS,R)
LIMITORQUE	SMB-000	1-033	M	NO NO
LIMITORQUE	SMB-000	1-040	M	NO NO
LIMITORQUE	SMB-000	1-073	M	NO
LIMITORQUE	SMB-000	1-165	M	NO NO
LIMITORQUE	SMB-000	1-399	M	NO
LIMITORQUE	SMB-000	1-401	M	NO
LIMITORQUE	SMB-000	1-402	M	NO
LIMITORQUE	SMB-000	1-403	M	NO
LIMITORQUE	SMB-000	1-408	M	NO
LIMITORQUE	SMB-000	1-409	M	NO
LIMITORQUE	SMB-000	1-427	H1	NO YES (T,H)
LIMITORQUE	SMB-000	1-428	H1	NO YES (T,H)
LIMITORQUE	SMB-000	32011	M	NO
LIMITORQUE	SMB-000	32012	M	NO
LIMITORQUE	SMB-000	32027	M	NO NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-000	32028	M	NO NO
LIMITORQUE	SMB-000	32029	M	NO
LIMITORQUE	SMB-000	32030	M	NO
LIMITORQUE	SMB-000	32031	M	NO
LIMITORQUE	SMB-000	32040	M	NO NO
LIMITORQUE	SMB-000	32078	H1	NO YES (T,H)
LIMITORQUE	SMB-000	32080	H1	NO YES (T,H)
LIMITORQUE	SMB-000	1-102	H1	YES (R)
LIMITORQUE	SMB-000	1-149	H3	YES (R)
LIMITORQUE	SMB-000	1-150	H3	YES (R)
LIMITORQUE	SMB-000	1-361	H1	YES (R)
LIMITORQUE	SMB-000	1-362	H1	YES (R)
LIMITORQUE	SMB-000	1-363	H1	YES (R)
LIMITORQUE	SMB-000	1-364	H1	YES (R)
LIMITORQUE	SMB-000	1-394	H1	YES (R)
LIMITORQUE	SMB-000	1-395	H1	YES (R)
LIMITORQUE	SMB-000	1-396	H1	YES (R)
LIMITORQUE	SMB-000	1-397	H1	YES (R)
LIMITORQUE	SMB-000	1-445	H1	YES (R)
LIMITORQUE	SMB-000	1-446	H1	YES (R)
LIMITORQUE	SMB-000	32084	H1	YES (R)
LIMITORQUE	SMB-000	32085	H1	YES (R)
LIMITORQUE	SMB-000	32086	H1	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-000	32087	H1	YES (R)
LIMITORQUE	SMB-000	32119 =	H1	YES (R)
LIMITORQUE	SMB-000	32120 =	H1	YES (R)
LIMITORQUE	SMB-000	32061 = *	H1	YES (R)
LIMITORQUE	SMB-000	32058 * =	H1	YES (R)
LIMITORQUE	SMB-000	32059 = *	H1	YES (R)
LIMITORQUE	SMB-000	32135 = *	H3	YES (P)
LIMITORQUE	SMB-000	32082 *	H1	YES (R)
LIMITORQUE	SMB-000	1-672	H1	YES (T, H, R)
LIMITORQUE	SMB-000	1-673	H1	YES (T, H, R)
LIMITORQUE	SMB-000	32147	H1	YES (T, H, R)
LIMITORQUE	SMB-000	32148	H1	YES (T, H, R)
LIMITORQUE	SMB-000	1-052	H2	YES (T, P, H, R, S)
LIMITORQUE	SMB-000	1-426	H2	YES (T, P, H, R, S)
LIMITORQUE	SMB-000	1-670	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-000	1-671	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-000	32145	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-000	32146	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-000	32077 *	H2	YES (T, P, H, R, S)
LIMITORQUE	SMB-000	32079 *	H2	YES (T, P, H, R, S)
LIMITORQUE	SMB-000	1-415	H1	YES (T, R)
LIMITORQUE	SMB-000	1-416	H1	YES (T, R)
LIMITORQUE	SMB-000	32038	H1	YES (T, R)
LIMITORQUE	SMB-000	32039	H1	YES (T, R)
LIMITORQUE	SMB-1	1-377	H1	YES (T, P, H, CS, R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
LIMITORQUE	SMB-1	1-378	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-1	32100 *	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-1	32101 *	H1	YES (T, P, H, CS, R)
LIMITORQUE	SMB-1-40	32102 = *	H1	YES (R)
LIMITORQUE	SMB-1-40	32103 = *	H1	YES (R)
LIMITORQUE	SMB-1-40	32113 = *	H1	YES (R)
LIMITORQUE	SMB-1-40	32114 = *	H1	YES (R)
LIMITORQUE	SMB-2	1-236	H1	YES (R) NO
LIMITORQUE	SMB-2	32016 *	H1	YES (R) NO
LIMITORQUE	SMB-2	1-232	H1	YES (T, R) YES (T, H)
LIMITORQUE	SMB-2	32015 *	H1	YES (T, R) YES (T, H)
LIMITORQUE	SMB-500	1-763	M	NO
LIMITORQUE	SMB-500	1-764	M	NO
LIMITORQUE	SMB-500	32121 *	M	NO
LIMITORQUE	SMB-500	32122 *	M	NO
LINCOLN	213T	1-141	M	NO
LINCOLN	213T	1-436	M	NO NO
LOUIS ALLIS	R18T	1-201	M	NO NO
LOUIS ALLIS	R184T	1-211	M	NO NO
LOUIS ALLIS	R184T	1-131	M	NO
LOUIS ALLIS	R184T	1-136	M	NO
MAGNETROL	A-153-F-EP/VP-X-Y	16638	O	YES (R, S)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
MAGNETROL	A-153-F-EP/VP-X-Y	16639	O	YES (R,S)
MAGNETROL	A-153-FXEP/VP-XY-TDM	1669301	O	YES (R,S)
MAGNETROL	A-153-FXEP/VP-XY-TDM	1669302	O	YES (R,S)
MAGNETROL	A-153-FXEP/VP-XY-TDM	1669401	O	YES (R,S)
MAGNETROL	A-153-FXEP/VP-XY-TDM	1669402	O	YES (R,S)
MAGNETROL	B730	16721	H2	YES (R)
MAGNETROL	B730	16722	H2	YES (R)
MAGNETROL	B730	16723	H2	YES (R)
MAGNETROL	B730	16724	H2	YES (R)
MAGNETROL	B730	16725	H2	YES (R)
MCGRAW EDISON	PSD	1E-0027	M	NO NO
MCGRAW EDISON	PSD	1E-0028	M	NO NO
MCGRAW EDISON	PSD	52A/1-024	M	NO
MCGRAW EDISON	PSD	52A/1-031	M	NO
MERCROID	DA 7021-804	16073	M	NO
MERCROID	DA 7021-804	16075	M	NO
MICRO SWITCH	907AUS	44301	M	NO
MICRO SWITCH	907AUS	44302	M	NO
NAMCO	D-2400X	3127201	M	NO
NAMCO	D-2400X	3127301	M	NO
NAMCO	D-2400X	3129801	M	NO
NAMCO	D-2400X	3129802	M	NO
NAMCO	D-2400X	3113201	H2	YES (R)
NAMCO	D-2400X	3113301	H2	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
NAMCO	D-2400X	3113401	H2	YES (R)
NAMCO	D-2400X	3113501	H2	YES (R)
NAMCO	D-2400X	3113601	H2	YES (R)
NAMCO	D-2400X	3113701	H2	YES (R)
NAMCO	D-2400X	3121601	H2	YES (R)
NAMCO	D-2400X	3121701	H2	YES (R)
NAMCO	D-2400X	3125301	H2	YES (R)
NAMCO	D-2400X	3125901	H2	YES (R)
NAMCO	D-2400X	3126001	H2	YES (R)
NAMCO	D-2400X	3126101	H2	YES (R)
NAMCO	D-2400X	3126701 =	H2	YES (R)
NAMCO	D-2400X	3126702 =	H2	YES (R)
NAMCO	D-2400X	3126801 =	H2	YES (R)
NAMCO	D-2400X	3126802 =	H2	YES (R)
NAMCO	D-2400X	3127101 *	H2	YES (R)
NAMCO	D-2400X	3133501 *	H2	YES (R)
NAMCO	D-2400X	3138301 =	H2	YES (R)
NAMCO	D-2400X	3138302 =	H2	YES (R)
NAMCO	D-2400X	3138401 =	H2	YES (R)
NAMCO	D-2400X	3138402 =	H2	YES (R)
NAMCO	D-2400X	3138501	H2	YES (R)
NAMCO	D-2400X	3138502 =	H2	YES (R)
NAMCO	D-2400X	3139302	H2	YES (R)
NAMCO	D-2400X	3139401	H2	YES (R)
NAMCO	D-2400X	3139402	H2	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
NAMCO	D-2400X	3139301	H2	YES (R)
NAMCO	D-2400X	3125302	H2	YES (R)
NAMCO	D-2400X	3133502	H2	YES (R)
NAMCO	D-2400X	3127102	H2	YES (R)
NAMCO	D-2400X	3125902	H2	YES (R)
NAMCO	D-2400X	3126002	H2	YES (R)
NAMCO	D-2400X	3126102	H2	YES (R)
NAMCO	D-2400X	3121602	H2	YES (R)
NAMCO	D-2400X	3121702	H2	YES (R)
NAMCO	D-2400X	3113202	H2	YES (R)
NAMCO	D-2400X	3113302	H2	YES (R)
NAMCO	D-2400X	3113402	H2	YES (R)
NAMCO	D-2400X	3113502	H2	YES (R)
NAMCO	D-2400X	3113602	H2	YES (R)
NAMCO	D-2400X	3113702	H2	YES (R)
NAMCO	D-2400X & D-2400X-SR	3140601	M	NO
NAMCO	D-2400X & D-2400X-SR	3140602	M	NO
NAMCO	D-2400X & D-2400X-SR	3140701	M	NO
NAMCO	D-2400X & D-2400X-SR	3140702	M	NO
NAMCO	D-2400X-2	3127202	M	NO
NAMCO	D-2400X-2	3127302	M	NO
NAMCO	D-2400X-2	3130901 =	H2	YES (R)
NAMCO	D-2400X-2	3130902 =	H2	YES (R)
NAMCO	EA 170	3166701	H3	YES (R)
NAMCO	EA 170	3166702	H3	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
NAMCO	EA 170	3167901	H3	YES (R)
NAMCO	EA 170	3167902	H3	YES (R)
NAMCO	EA 170	3168201	H3	YES (R)
NAMCO	EA 170	3168202	H3	YES (R)
NAMCO	EA 170	3168301	H3	YES (R)
NAMCO	EA 170	3168302	H3	YES (R)
NAMCO	EA 170	3168401	H3	YES (R)
NAMCO	EA 170	3168402	H3	YES (R)
NAMCO	EA 170	3168501	H3	YES (R)
NAMCO	EA 170	3168502	H3	YES (R)
NAMCO	EA 170-12100 & 11100	3101601	H2	YES (R)
NAMCO	EA 170-12100 & 11100	3101602	H2	YES (R)
NAMCO	EA 170-12100 & 11100	3101501	H2	YES (T,R)
NAMCO	EA 170-12100 & 11100	3101502	H2	YES (T,R)
NAMCO	EA 180	3168801	H1	YES (R)
NAMCO	EA 180	3168802	H1	YES (R)
NAMCO	EA 180	3168901	H1	YES (R)
NAMCO	EA 180	3168902	H1	YES (R)
NAMCO	EA 180	3110901	H1	YES (T,P,H,R,CS)
NAMCO	EA 180	3110902	H1	YES (T,P,H,CS,P)
NAMCO	EA 180	3111001	H1	YES (T,P,H,R,CS)
NAMCO	EA 180	3111002	H1	YES (T,P,H,CS,R)
NAMCO	EA 180	3123102	H1	YES (T,P,H,CS,R,S)
NAMCO	EA 180	3123202	H1	YES (T,P,H,CS,P,S)
NAMCO	EA 180	3123302	H1	YES (T,P,H,CS,R,S)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
NAMCO	EA 180-31302	3401001	H1	YES (R)
NAMCO	EA 180-31302	3401301	H1	YES (R)
NAMCO	EA 180-32302	3401002	H1	YES (R)
NAMCO	EA 180-32302	3401302	H1	YES (R)
NAMCO	EA 740-20100	3112301	H1	YES (T,H,R)
NAMCO	EA 740-20100	3112501	H1	YES (T,H,R)
NAMCO	EA 740-20100	3133701	H1	YES (T,H,R)
NAMCO	EA 740-20100	3133801	H1	YES (T,H,R)
NAMCO	EA 740-20100	3112502	H1	YES (T,H,R)
NAMCO	EA 740-20100	3112302	H1	YES (T,H,R)
NAMCO	EA 740-20100	3133702	H1	YES (T,H,R)
NAMCO	EA 740-20100	3133802	H1	YES (T,H,R)
NAMCO	EA 740-20100	3112401	H1	YES (T,P,H,CS,R)
NAMCO	EA 740-20100	3112601	H1	YES (T,P,H,CS,R)
NAMCO	EA 740-20100	3112602	H1	YES (T,P,H,CS,R)
NAMCO	EA 740-20100	3112402	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3123101	H1	YES (T,P,H,CS,R,S)
NAMCO	EA-180	3123201	H1	YES (T,P,H,CS,R,S)
NAMCO	EA-180	3123301	H1	YES (T,P,H,CS,R,S)
NAMCO	EA-180	3126301	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3126302	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3126401	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3126402	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3127001	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3133401	H1	YES (T,P,H,CS,R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
NAMCO	EA-180	3133402	H1	YES (T,P,H,CS,R)
NAMCO	EA-180	3127002	H1	YES (T,P,H,CS,R)
NAMCO	EA-180-31302	3401402	H1	YES (R)
NAMCO	EA-180-31302	3401502	H1	YES (R)
NAMCO	EA-180-31302	3123402	H1	YES (R)
NAMCO	EA-180-32302	3123401	H1	YES (R)
NEBULA	E550-EP-1	NEB-1	H2	YES (T,P,H,CS,R)
OKONITE	OKOLON JACKET	OKO-3	H1	YES (T,P,H,R,CS)
OKONITE	OKOLON JACKET	OKO-4	H1	YES (T,P,H,R,CS)
OKONITE	OKONITE-OKOPRENE	OKO-1	H1	YES (T,P,H,CS,R,S)
OKONITE	OKOZEL (TEFZEL)	OKO-5	H1	YES (T,P,H,R,CS,S)
OKONITE	OKOZEL (TEFZEL)	OKO-6	H1	YES (T,P,H,R,CS,S)
OKONITE	T-95	OKO-2	H1	YES (T,P,H,CS,R)
OKONITE	202-11-2402	OKO-7	H1	YES (T,R)
PENN	P70AA-118	16197	M	YES (T,H)
PENN	P70AA-118	16198	M	YES (T,H)
PENN	P70LB-6	16195	M	YES (T,H)
PENN	P70LB-6	16196	M	YES (T,H)
PENN	P70LB-6	16345	M	YES (T,H)
PENN	P70LB-6	16353	M	YES (T,H)
REDA PUMP	G443D35P-5	1-110	M	NO NO
REDA PUMP	G443D35P-5	1-139	M	NO NO
RELIANCE	SPECIAL	1-298	H1	YES (R)
RELIANCE	SPECIAL	1-299	H1	YES (R)

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
RELIANCE	TYPE N	1-120	H2	YES (T,P,H,CS,R)
RELIANCE	TYPE N	1-121	H2	YES (T,P,H,CS,R)
RELIANCE	TYPE N	1-156	H2	YES (T,P,H,CS,R)
RELIANCE	TYPE N	1-157	H2	YES (T,P,H,CS,R)
RELIANCE	TYPE N	1-583	H2	YES (T,P,H,CS,R)
RELIANCE	TYPE N	1-584	H2	YES (T,P,H,CS,R)
RELIANCE	184 TD	1-242	M	NO
RELIANCE	184 TD	1-243	M	NO
RELIANCE	184 TD	1-252	M	NO
RELIANCE	184 TD	1-294	M	NO
RELIANCE	213-T	1-265	M	NO NO
RELIANCE	213-T	1-266	M	NO NO
RELIANCE	284-T	1-126	H2	YES (R)
RELIANCE	284-T	1-127	H2	YES (R)
RELIANCE	284-T	1-144	H2	YES (R)
RELIANCE	284-T	1-145	H2	YES (R)
RELIANCE	324TCZ	1-116	M	NO NO
RELIANCE	324TCZ	1-118	M	NO NO
ROCKBESTOS CO.	SIS	ROC-1	H1	NO
ROSEMOUNT	1152	23010	H2	NO
ROSEMOUNT	1152	23012	H2	NO
ROSEMOUNT	1152GP7022PB	21132	H2	YES (R)
ROSEMOUNT	1152GP7022PB	21133	H2	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
ROSEMOUNT	1153006	23001	H1	YES (T, P, H, CS, R) YES (R)
ROSEMOUNT	1153006	23002	H1	YES (T, P, H, CS, R) YES (R)
ROSEMOUNT	1153006	23005	H1	YES (T, P, H, CS, R) YES (R)
ROSEMOUNT	1153006	23007	H1	YES (T, P, H, CS, R) YES (R)
ROTRON	1505JH	1-115	H2	YES (R)
ROTRON	1505JH	1-147	H2	YES (R)
SIEMENS-ALLIS	640	1-896	M	NO
SKINNER	R2HLX28	33714	M	NO
SKINNER	R2HLX28	33715	M	NO
SKINNER	V520B1100	33696	M	NO
SKINNER	V520B1100	33697	M	NO
SKINNER	V520B1100	33698	M	NO
SKINNER	V520B1100	33699	M	NO
SKINNER	V520B1100	33700	M	NO
SKINNER	V520B1100	33702	M	NO
SKINNER	V520B1100	33703	M	NO
SKINNER	V520B1100	33704	M	NO
SKINNER	V520B1100	33705	M	NO
SOLIDSTATE CONTROLS	SV12050	1E-0529	M	NO
SOLIDSTATE CONTROLS	SV12050	1E-0544	M	NO
SORGEL ELECTRIC	75T3H	1-119	M	NO NO
SORGEL ELECTRIC	75T3H	1-153	M	NO NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
SORGEL ELECTRIC	75T3H	1E-0540	M	NO NO
SQUARE D	=4	1E-0633	M	NO
SQUARE D	=4	1E-0634	M	NO
SQUARE D	=4	1E-0635	M	NO
SQUARE D	TYPE CO-20	CCRAX-1-A	M	NO
SQUARE D	TYPE CO-20	CCRAX-2-A	M	NO
SQUARE D	4	1E-0662	M	NO NO
TARGET ROCK	808-001	33658	H1	YES (T,P,H,R,CS)
TARGET ROCK	808-001	33659	H1	YES (T,P,H,R,CS)
TARGET ROCK	808-001	33660	H1	YES (T,P,H,R,CS)
TARGET ROCK	808-001	33661	H1	YES (T,P,H,R,CS)
TARGET ROCK	808-001	33662	H1	YES (T,P,H,R,CS)
TARGET ROCK	808-001	33663	H1	YES (T,P,H,R,CS)
TECHNICAL HEATERS	N/A	64001	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16365	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16367	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16373	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16375	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16377	M	NO
TEXAS INSTRUMENTS	P/N 6786-38-5	16363	H2	YES (R)
TEXAS INSTRUMENTS	P/N 6786-38-5	16371	H2	YES (R)
TEXAS INSTRUMENTS	P/N 6786-38-5	16361	H2	YES (T,H,R)
TEXAS INSTRUMENTS	P/N 6786-38-5	16369	H2	YES (T,H,R)
TEXAS INSTRUMENTS	P/N 78TL2A-17	16366	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
TEXAS INSTRUMENTS	P/N 78TL2A-17	16368	M	NO
TEXAS INSTRUMENTS	P/N 78TL2A-17	16374	M	NO
TEXAS INSTRUMENTS	P/N 78TL2A-17	16376	M	NO
TEXAS INSTRUMENTS	P/N 78TL2A-17	16378	M	NO
TEXAS INSTRUMENTS	P/N 78TL2A-17	16364	H2	YES (R)
TEXAS INSTRUMENTS	P/N 78TL2A-17	16372	H2	YES (R)
TEXAS INSTRUMENTS	P/N 78TL2A-17	16362	H2	YES (T,H,R)
TEXAS INSTRUMENTS	P/N 78TL2A-17	16370	H2	YES (T,H,R)
TRANE		1-315	M	NO
TRANE		1-316	M	NO NO
UNHOLTZ-DICKIE CORP	22CA-2TR	23079	O	YES (T,P,H,R,CS)
UNHOLTZ-DICKIE CORP	22CA-2TR	23080	O	YES (T,P,H,R,CS)
UNHOLTZ-DICKIE CORP	22CA-2TR	23081	O	YES (T,P,H,R,CS)
UNHOLTZ-DICKIE CORP	22CA-2TR	23082	O	YES (T,P,H,R,CS)
UNITED ELECTRIC	888	16358	M	NO
UNITED ELECTRIC	888	16359	M	NO
US ELECTRIC	213T	1-164	M	NO
US ELECTRIC	213T	1-183	M	NO
US ELECTRIC	256T	1-317	M	NO
US ELECTRIC	256T	1-318	M	NO NO
VALCOR	V526-5292-26	33692	M	NO
VALCOR	V526-5292-26	33693	M	NO
VALCOR	V526-5295-31	33688	H1	YES (R)
VALCOR	V526-5295-31	33690	H1	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
VALCOR	V526-5295-33	33327	H1	YES (R)
VALCOR	V526-5295-33	33327	H1	YES (R)
VALCOR	V526-5295-34	33092	H1	YES (T, P, H, R, CS)
VALCOR	V526-5295-34	33092	H1	YES (T, P, H, CS, R)
VALCOR	V526-5295-38	33667	H1	NO
VALCOR	V526-5295-38	33677	M	NO
VALCOR	V526-5295-38	33668	H1	YES (R)
VALCOR	V526-5295-38	33670	H1	YES (R)
VALCOR	V526-5295-39	33672	H1	YES (R)
VALCOR	V526-5295-39	33673	H1	YES (R)
VALCOR	V526-5295-4	33669	H1	YES (R)
VALCOR	V526-5295-41	33674	H1	NO
VALCOR	V526-5295-42	33671	H1	YES (R)
VALCOR	V526-5631-6	33686	H1	YES (R)
VALCOR	V526-5631-6	33687	H1	YES (R)
VALCOR	V526-5871-1	33651	H1	YES (R)
VALCOR	V526-5871-1	33654	H1	YES (R)
VALCOR	V526-5871-1	33656	H1	YES (R)
VALCOR	V526-5871-1	33657	H1	YES (P)
VALCOR	V526-5871-1	33664	H1	YES (R)
VALCOR	V526-5871-1	33665	H1	YES (R)
VALCOR	V526-5950-8	33655	H1	YES (T, P, H, R, CS)
VALCOR	V526-6042-2	33679	H1	YES (R)
VALCOR	V526-6042-2	33681	H1	YES (R)
VALCOR	V526-6042-2	33683	H1	YES (R)

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
VALCOR	V526-6042-4	33678	H1	YES (R)
VALCOR	V526-6042-4	33680	H1	YES (R)
VALCOR	V526-6042-4	33682	H1	YES (R)
VALCOR	V526-6042-5	33666	H1	NO
VALCOR	V526-6410-1	33649	H1	YES (R)
VALCOR	V526-6410-1	33650	H1	YES (R)
VALCOR	V526-6600-1	33684	H1	YES (R)
VALCOR	V526-6600-1	33685	H1	YES (R)
VALCOR	V573-5231-3	33652	H1	YES (R)
VALCOR	V573-5231-3	33653	H1	YES (R)
VALCOR	V573-5231-4	33675	H1	YES (R)
VALCOR	V573-5231-4	33676	H1	YES (R)
WESTERN ENGINE		134-031	M	NO
WESTERN ENGINE		134-032	M	NO
WESTERN ENGINE	BUILT PER SPEC	1E-0480	M	NO
WESTERN ENGINE	BUILT PER SPEC	1E-0490	M	NO
WESTINGHOUSE	ABDP	1-025	H2	YES (R)
WESTINGHOUSE	ABDP	1-032	H2	YES (R)
WESTINGHOUSE	BUILT PER SPEC	1E-0220	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0221	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0222	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0223	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0224	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0225	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0226	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	BUILT PER SPEC	1E-0227	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0228	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0229	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0230	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0231	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0232	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0233	M	NO
WESTINGHOUSE	BUILT PER SPEC	1E-0526	M	NO NO
WESTINGHOUSE	BUILT PER SPEC	1E-0534	M	NO NO
WESTINGHOUSE	BUILT PER SPEC	1E-0535	M	NO NO
WESTINGHOUSE	BUILT PER SPEC	1E-0536	M	NO NO
WESTINGHOUSE	BUILT PER SPEC	1E-0537	M	NO NO
WESTINGHOUSE	OT-2	46965	M	NO
WESTINGHOUSE	OT-2	46968	M	NO
WESTINGHOUSE	OT-2	46971	M	NO
WESTINGHOUSE	OT-2	46972	M	NO
WESTINGHOUSE	OT-2	46988	M	NO
WESTINGHOUSE	OT-2	46989	M	NO
WESTINGHOUSE	OT-2	46990	M	NO
WESTINGHOUSE	OT-2	46991	M	NO
WESTINGHOUSE	OT-2	46992	M	NO
WESTINGHOUSE	OT-2	46993	M	NO
WESTINGHOUSE	OT-2	46997	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	OT-2	46998	M	NO
WESTINGHOUSE	OT-2A	46975	M	NO
WESTINGHOUSE	OT-2A	46976	M	NO
WESTINGHOUSE	OT-2A	5163301	M	NO
WESTINGHOUSE	OT-2A	5163304	M	NO
WESTINGHOUSE	OT-2A	5163307	M	NO
WESTINGHOUSE	OT-2A	5163310	M	NO
WESTINGHOUSE	OT-2A	5163313	M	NO
WESTINGHOUSE	OT-2A	5163316	M	NO
WESTINGHOUSE	OT-2A	5163323	M	NO
WESTINGHOUSE	OT-2A	5163326	M	NO
WESTINGHOUSE	OT-2A	5163329	M	NO
WESTINGHOUSE	OT-2A	5163333	M	NO
WESTINGHOUSE	OT-2A	5163335	M	NO
WESTINGHOUSE	OT-2A	5163338	M	NO
WESTINGHOUSE	OT-2A	5163341	M	NO
WESTINGHOUSE	OT-2A	5163344	M	NO
WESTINGHOUSE	OT-2A	5163347	M	NO
WESTINGHOUSE	OT-2A	5163350	M	NO
WESTINGHOUSE	OT-2A	5163353	M	NO
WESTINGHOUSE	OT-2A	5163362	M	NO
WESTINGHOUSE	OT-2A	5163365	M	NO
WESTINGHOUSE	OT-2A	5163366	M	NO
WESTINGHOUSE	OT-2A	5163367	M	NO
WESTINGHOUSE	OT-2A	5163370	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	OT-2A	5163373	M	NO
WESTINGHOUSE	OT-2A	5163376	M	NO
WESTINGHOUSE	OT-2A	5163401	M	NO
WESTINGHOUSE	OT-2A	5163406	M	NO
WESTINGHOUSE	OT-2A	5163411	M	NO
WESTINGHOUSE	OT-2A	5163416	M	NO
WESTINGHOUSE	OT-2A	5163421	M	NO
WESTINGHOUSE	OT-2A	5163424	M	NO
WESTINGHOUSE	OT-2A	5163427	M	NO
WESTINGHOUSE	OT-2A	5163430	M	NO
WESTINGHOUSE	OT-2A	5163440	M	NO
WESTINGHOUSE	OT-2B1	46964	M	NO
WESTINGHOUSE	OT-2B1	4698601	M	NO
WESTINGHOUSE	OT-2B1	4698602	M	NO
WESTINGHOUSE	OT-2B1	4698701	M	NO
WESTINGHOUSE	OT-2B1	4698702	M	NO
WESTINGHOUSE	OT-2S1	46994	M	NO
WESTINGHOUSE	OT-2S1	46995	M	NO
WESTINGHOUSE	OT-2V6	46969	M	NO
WESTINGHOUSE	OT-2V6	46970	M	NO
WESTINGHOUSE	OT-2Z6	46966	M	NO
WESTINGHOUSE	OT-2Z6	46967	M	NO
WESTINGHOUSE	OT2	19433	M	NO
WESTINGHOUSE	OT2	19434	M	NO
WESTINGHOUSE	OT2	19435	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	OT2	19436	M	NO
WESTINGHOUSE	OT2	19437	M	NO
WESTINGHOUSE	OT2	19529	M	NO
WESTINGHOUSE	OT2	19565	M	NO
WESTINGHOUSE	OT2	19566	M	NO
WESTINGHOUSE	OT2	46322	M	NO
WESTINGHOUSE	OT2	46323	M	NO
WESTINGHOUSE	OT2	19526	M	NO
WESTINGHOUSE	OT2	19527	M	NO
WESTINGHOUSE	OT2/W-2	46000	M	NO
WESTINGHOUSE	OT2B1M	19474	M	NO
WESTINGHOUSE	OT2S01	19432	M	NO
WESTINGHOUSE	OT2T	19528	M	NO
WESTINGHOUSE	PB1	19623	O	YES (R)
WESTINGHOUSE	PB1	19624	O	YES (R)
WESTINGHOUSE	PB1XPC	1962301	O	YES (R)
WESTINGHOUSE	PB1XPC	1962401	O	YES (R)
WESTINGHOUSE	VX-252	4131703	M	NO
WESTINGHOUSE	VX-252	4131704	M	NO
WESTINGHOUSE	VX-252/HX-252	41000	M	NO
WESTINGHOUSE	1589184	4680402	M	NO
WESTINGHOUSE	1589184	5163403	M	NO
WESTINGHOUSE	1589184	5163404	M	NO
WESTINGHOUSE	1589184	5163405	M	NO
WESTINGHOUSE	1589184	5163407	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589184	5163408	M	NO
WESTINGHOUSE	1589184	5163409	M	NO
WESTINGHOUSE	1589184	5163410	M	NO
WESTINGHOUSE	1589184	5163412	M	NO
WESTINGHOUSE	1589184	5163413	M	NO
WESTINGHOUSE	1589184	5163414	M	NO
WESTINGHOUSE	1589184	5163415	M	NO
WESTINGHOUSE	1589184	5163417	M	NO
WESTINGHOUSE	1589184	5163418	M	NO
WESTINGHOUSE	1589184	5163419	M	NO
WESTINGHOUSE	1589184	5163420	M	NO
WESTINGHOUSE	1589184	5163422	M	NO
WESTINGHOUSE	1589184	5163423	M	NO
WESTINGHOUSE	1589184	5163425	M	NO
WESTINGHOUSE	1589184	5163426	M	NO
WESTINGHOUSE	1589184	5163428	M	NO
WESTINGHOUSE	1589184	5163429	M	NO
WESTINGHOUSE	1589184	5163431	M	NO
WESTINGHOUSE	1589184	5163432	M	NO
WESTINGHOUSE	1589184	5163439	M	NO
WESTINGHOUSE	1589184	5163441	M	NO
WESTINGHOUSE	1589184	5163442	M	NO
WESTINGHOUSE	1589184	5163443	M	NO
WESTINGHOUSE	1589184	5163444	M	NO
WESTINGHOUSE	1589184	5163445	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589184	5163446	M	NO
WESTINGHOUSE	1589184	5163447	M	NO
WESTINGHOUSE	1589184	5163448	M	NO
WESTINGHOUSE	1589184	5163450	M	NO
WESTINGHOUSE	1589184	5163451	M	NO
WESTINGHOUSE	1589184	5163452	M	NO
WESTINGHOUSE	1589184	5163453	M	NO
WESTINGHOUSE	1589184	5163454	M	NO
WESTINGHOUSE	1589184	5163455	M	NO
WESTINGHOUSE	1589195	4492302	M	NO
WESTINGHOUSE	1589195	4492401	M	NO
WESTINGHOUSE	1589195	4492802	M	NO
WESTINGHOUSE	1589195	4697502	M	NO
WESTINGHOUSE	1589195	4697601	M	NO
WESTINGHOUSE	1589195	4698801	M	NO
WESTINGHOUSE	1589195	4698802	M	NO
WESTINGHOUSE	1589195	4698901	M	NO
WESTINGHOUSE	1589195	4698902	M	NO
WESTINGHOUSE	1589195	4699001	M	NO
WESTINGHOUSE	1589195	4699002	M	NO
WESTINGHOUSE	1589195	4699101	M	NO
WESTINGHOUSE	1589195	4699102	M	NO
WESTINGHOUSE	1589195	4699201	M	NO
WESTINGHOUSE	1589195	4699202	M	NO
WESTINGHOUSE	1589195	4699301	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589195	4699302	M	NO
WESTINGHOUSE	1589195	4699701	M	NO
WESTINGHOUSE	1589195	4699702	M	NO
WESTINGHOUSE	1589195	4699703	M	NO
WESTINGHOUSE	1589195	4699704	M	NO
WESTINGHOUSE	1589195	4699705	M	NO
WESTINGHOUSE	1589195	4699706	M	NO
WESTINGHOUSE	1589195	4699801	M	NO
WESTINGHOUSE	1589195	4699802	M	NO
WESTINGHOUSE	1589195	4699803	M	NO
WESTINGHOUSE	1589195	4699804	M	NO
WESTINGHOUSE	1589195	4699805	M	NO
WESTINGHOUSE	1589195	4699806	M	NO
WESTINGHOUSE	1589196	4492301	M	NO
WESTINGHOUSE	1589196	4492402	M	NO
WESTINGHOUSE	1589196	4492501	M	NO
WESTINGHOUSE	1589196	4492502	M	NO
WESTINGHOUSE	1589196	4492601	M	NO
WESTINGHOUSE	1589196	4492602	M	NO
WESTINGHOUSE	1589196	4492701	M	NO
WESTINGHOUSE	1589196	4492702	M	NO
WESTINGHOUSE	1589196	4492801	M	NO
WESTINGHOUSE	1589196	4696401	M	NO
WESTINGHOUSE	1589196	4696402	M	NO
WESTINGHOUSE	1589196	4696403	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589196	4696501	M	NO
WESTINGHOUSE	1589196	4696502	M	NO
WESTINGHOUSE	1589196	4696503	M	NO
WESTINGHOUSE	1589196	4696601	M	NO
WESTINGHOUSE	1589196	4696602	M	NO
WESTINGHOUSE	1589196	4696701	M	NO
WESTINGHOUSE	1589196	4696702	M	NO
WESTINGHOUSE	1589196	4696801	M	NO
WESTINGHOUSE	1589196	4696802	M	NO
WESTINGHOUSE	1589196	4696901	M	NO
WESTINGHOUSE	1589196	4696902	M	NO
WESTINGHOUSE	1589196	4697001	M	NO
WESTINGHOUSE	1589196	4697002	M	NO
WESTINGHOUSE	1589196	4697501	M	NO
WESTINGHOUSE	1589196	4697602	M	NO
WESTINGHOUSE	1589196	4699401	M	NO
WESTINGHOUSE	1589196	4699402	M	NO
WESTINGHOUSE	1589196	4699501	M	NO
WESTINGHOUSE	1589196	4699502	M	NO
WESTINGHOUSE	1589196	5163302	M	NO
WESTINGHOUSE	1589196	5163303	M	NO
WESTINGHOUSE	1589196	5163305	M	NO
WESTINGHOUSE	1589196	5163306	M	NO
WESTINGHOUSE	1589196	5163308	M	NO
WESTINGHOUSE	1589196	5163309	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589196	5163311	M	NO
WESTINGHOUSE	1589196	5163312	M	NO
WESTINGHOUSE	1589196	5163314	M	NO
WESTINGHOUSE	1589196	5163315	M	NO
WESTINGHOUSE	1589196	5163317	M	NO
WESTINGHOUSE	1589196	5163318	M	NO
WESTINGHOUSE	1589196	5163319	M	NO
WESTINGHOUSE	1589196	5163320	M	NO
WESTINGHOUSE	1589196	5163321	M	NO
WESTINGHOUSE	1589196	5163322	M	NO
WESTINGHOUSE	1589196	5163324	M	NO
WESTINGHOUSE	1589196	5163325	M	NO
WESTINGHOUSE	1589196	5163327	M	NO
WESTINGHOUSE	1589196	5163328	M	NO
WESTINGHOUSE	1589196	5163330	M	NO
WESTINGHOUSE	1589196	5163331	M	NO
WESTINGHOUSE	1589196	5163334	M	NO
WESTINGHOUSE	1589196	5163336	M	NO
WESTINGHOUSE	1589196	5163337	M	NO
WESTINGHOUSE	1589196	5163339	M	NO
WESTINGHOUSE	1589196	5163340	M	NO
WESTINGHOUSE	1589196	5163342	M	NO
WESTINGHOUSE	1589196	5163343	M	NO
WESTINGHOUSE	1589196	5163345	M	NO
WESTINGHOUSE	1589196	5163346	M	NO

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MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589196	5163348	M	NO
WESTINGHOUSE	1589196	5163349	M	NO
WESTINGHOUSE	1589196	5163351	M	NO
WESTINGHOUSE	1589196	5163352	M	NO
WESTINGHOUSE	1589196	5163354	M	NO
WESTINGHOUSE	1589196	5163355	M	NO
WESTINGHOUSE	1589196	5163356	M	NO
WESTINGHOUSE	1589196	5163357	M	NO
WESTINGHOUSE	1589196	5163358	M	NO
WESTINGHOUSE	1589196	5163359	M	NO
WESTINGHOUSE	1589196	5163360	M	NO
WESTINGHOUSE	1589196	5163361	M	NO
WESTINGHOUSE	1589196	5163363	M	NO
WESTINGHOUSE	1589196	5163364	M	NO
WESTINGHOUSE	1589196	5163368	M	NO
WESTINGHOUSE	1589196	5163369	M	NO
WESTINGHOUSE	1589196	5163371	M	NO
WESTINGHOUSE	1589196	5163372	M	NO
WESTINGHOUSE	1589196	5163374	M	NO
WESTINGHOUSE	1589196	5163375	M	NO
WESTINGHOUSE	1589196	5163377	M	NO
WESTINGHOUSE	1589196	5163378	M	NO
WESTINGHOUSE	1589196	5163379	M	NO
WESTINGHOUSE	1589196	5163380	M	NO
WESTINGHOUSE	1589196	5163381	M	NO

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	1589196	5163382	M	NO
WESTINGHOUSE	1589196	5163383	M	NO
WESTINGHOUSE	1589196	5163384	M	NO
WESTINGHOUSE	1589196	5163385	M	NO
WESTINGHOUSE	1589196	5163402	M	NO
WESTINGHOUSE	1589196	8103302	M	NO
WESTINGHOUSE	1589196	8103304	M	NO
WESTINGHOUSE	1589196	8103305	M	NO
WESTINGHOUSE	1589196	8103307	M	NO
WESTINGHOUSE	1589196	8103308	M	NO
WESTINGHOUSE	1589196	8103310	M	NO
WESTINGHOUSE	1589196	8103311	M	NO
WESTINGHOUSE	1589196	8103313	M	NO
WESTINGHOUSE	1589196	8103315	M	NO
WESTINGHOUSE	1589196	8103317	M	NO
WESTINGHOUSE	1589196	8103318	M	NO
WESTINGHOUSE	1589196	8103320	M	NO
WESTINGHOUSE	1589196	8103321	M	NO
WESTINGHOUSE	1589196	8103323	M	NO
WESTINGHOUSE	1589196	8103324	M	NO
WESTINGHOUSE	1589196	8103326	M	NO
WESTINGHOUSE	1589196	8103328	M	NO
WESTINGHOUSE	1589196	8103330	M	NO
WESTINGHOUSE	218A	1-036	M	NO
WESTINGHOUSE	504-US	1-021	M	NO

E-175

TABLE E-3

MANUFACTURER	MODEL NUMBER	PLANT ID	EQ TYPE	HARSH
WESTINGHOUSE	504-US	1-028	M	NO
WESTINGHOUSE	5809-H	1-027	H2	YES (R) NO
WESTINGHOUSE	5809-H	1-020	H2	YES (R) NO
WOODWARD GOVERNOR CO	PG	MS-103	M	NO

01270 RECORDS RETRIEVED FOR THIS REQUEST

APPENDIX F
USING ARRHENIUS CURVES

In order to comply with the aging requirements of IEEE-323-1974, manufacturers frequently supply an arrhenius curve as part of their test report. The purchaser (WPSC) must then determine the equipment's designated life. In order to determine designated life, you must have the following information:

- (1) Arrhenius curve for the most limiting material(s);
- (2) The normal temperature environment for the place where the equipment will be located at KNPP;
- (3) The length of time the equipment must operate during and after the accident (LOCA and/or HELB), and;
- (4) The accident temperature profile (plot of temperature and time).

The normal temperature environment can be obtained from Appendix C. Where a range of normal temperatures is given for a location (e.g., 60-104°F for Aux Building SV Zone), use the maximum temperature (104°F) for this calculation.

Operating times for systems are specified in Appendix C, Table C-23.

The HELB/LOCA temperature profile for equipment located inside containment is given in Figure F-1. For equipment located outside containment, assume the peak accident temperature from Appendix C exists for the length of time specified as operating time.

EXAMPLE PROBLEM

Let us suppose you are working on a DCR which installs a new H₂ vent penetration from the containment into the Aux Building at J.0/5.8/610. You have specified solenoid operated isolation valves inside and outside containment. ABC Valve Company's bid package included their environmental test report from which the arrhenius curve, Figure F-2, was excerpted, and a spec sheet which stated that "the valves have a designated life of 57 years at 85°F."

We need to determine the valves' designated life at their KNPP locations.

STEP 1: Define Accident Environment

These valves must be operable for both LOCA and HELB, according to your design.

Inside Containment

Inside containment, the LOCA environment is more severe than HELB. The accident temperature profile is shown in Figure F-1 and tabulated below.

Since the operating time (from Appendix C) is 120 days, the tabulation stops at 2880 hours.

<u>Accident Time (hrs)</u>	<u>Temperature (°F)</u>
2.78×10^{-3}	200
1.94×10^{-2}	293
1.39	258
0.417	231
22.833	228
2,855.34	120

Outside Containment

The outside containment isolation valve is located in the Aux Building SV Zone, so its temperature profile is rather simple.

<u>Accident Time (hrs)</u>	<u>Temperature (°F)</u>
2880	104

STEP 2: Determine Partial Usage Factors

For each accident temperature and time, a partial usage factor is calculated. The partial usage factor is the specified accident time at that temperature divided by the qualified operating time at that temperature, as read from the Arrhenius curve. The partial usage factor is the fraction of available life that has been expended at this temperature.

In order to properly interpolate between temperature values on the Arrhenius curve, temperatures must be converted to the units of (1/°K). This conversion is done using the following equation:

$$^{\circ}\text{K} = \frac{^{\circ}\text{F} + 459.67}{1.8}$$

so that:

$$1/^{\circ}\text{K} = \frac{1.8}{^{\circ}\text{F} + 459.67}$$

The first inside containment LOCA temperature is 200°F.

$$1/^{\circ}\text{K} = \frac{1.8}{200 + 459.67} = 2.729 \times 10^{-3}$$

From Figure F-2:

$$2.682 \times 10^{-3} \quad 1/^{\circ}\text{K} = 7 \times 10^3 \text{ hrs, and}$$

$$2.838 \times 10^{-3} \quad 1/^{\circ}\text{K} = 6 \times 10^4 \text{ hrs.}$$

Interpolating:

$$(2.838 \times 10^{-3}) - (2.682 \times 10^{-3}) = 10 \text{ abscissa divisions}$$

$$(2.729 \times 10^{-3}) - (2.682 \times 10^{-3}) = x \text{ abscissa divisions}$$

$$x \text{ abscissa divisions} = \frac{10 ([2.729 \times 10^{-3}] - [2.68 \times 10^{-3}])}{(2.838 \times 10^{-3}) - (2.682 \times 10^{-3})} = 3$$

Counting 3 abscissa divisions from $2.682 \times 10^{-3} \text{ 1/}^\circ\text{K}$ toward $2.838 \times 10^{-3} \text{ 1/}^\circ\text{K}$, we obtain

$$2.729 \times 10^{-3} \text{ 1/}^\circ\text{K} = 1.3 \times 10^4 \text{ hours}$$

For 200°F , the Usage Factor = Accident time/Arrhenius time

$$2.78 \times 10^{-3} / 1.3 \times 10^4 = 2.14 \times 10^{-7}$$

Or, 0.00002% of the component's designated life is expended during the first plateau of the LOCA profile.

The results of iterating this procedure for each time and temperature of the accident profiles are tabulated below.

Inside Containment

<u>Temperature ($^\circ\text{F}$)</u>	<u>Accident Time (hrs)</u>	<u>Arrhenius Time (hrs)</u>	<u>Usage Factor</u>
200	0.00278	1.3×10^4	2.14×10^{-7}
293	0.0194	1.25×10^2	1.55×10^{-4}
258	1.39	4.4×10^2	3.16×10^{-3}
231	0.417	1.8×10^3	2.32×10^{-4}
228	22.833	2.3×10^3	9.93×10^{-3}
120	2,855.34	2.0×10^5	1.43×10^{-2}

Outside Containment:

<u>Temperature ($^\circ\text{F}$)</u>	<u>Accident Time (hrs)</u>	<u>Arrhenius Time (hrs)</u>	<u>Usage Factor</u>
104	2880	3.0×10^5	9.6×10^{-3}

STEP 3: Calculate Cumulative Usage Factor

Simply sum the individual usage factors calculated in Step 2. Accident temperature conditions inside containment have expended 2.8% of available life. Accident conditions outside containment have expended 1% of available life.

STEP 4: Find Designated Life

Designated life equals one minus the cumulative usage factor times the Arrhenius life at the normal temperature.

Inside Containment

At the normal operating temperature (from Appendix C) of 120°F (3.105×10^{-3}

$1/^\circ\text{K}$), Figure F-2 shows an Arrhenius life of 2.0×10^5 hours, or 22.8 years. The designated life is $(1.0 - 0.028) (22.8) = 22.2$ years.

Outside Containment

At the normal operating temperature (from Appendix C) of 104°F (3.193×10^{-3} 1/°K), Figure F-2 shows an Arrhenius life of 3×10^5 hours, or 34.25 years. The designated life is $(1.0 - 0.01) (34.25) = 33.9$ years.

STEP 5: Conclusions

KNPP began operation in 1974 with a design life of 40 years. If our imaginary DCR were implemented during the 1984 outage, the outside containment isolation valve designated life would exceed remaining plant design life. However, the inside containment isolation valve would have to be replaced during the year 2006 outage. Since it is difficult to predict replacement costs that far in the future, it would be prudent to search for a valve with a greater designated life for inside containment.

CAUTIONS:

The units of time used in the calculations must be the same as those on the Arrhenius curve. A conversion must be made if units are not similar.

For temperatures falling below the minimum temperature shown on the Arrhenius curve, the curve can be linearly extrapolated. However, the curve cannot be extrapolated to temperatures above the maximum temperature.

If the cumulative usage factor is greater than 1.0, the component is not qualified for the accident temperature conditions considered.

The component is not qualified for any temperature greater than the maximum temperature shown on the Arrhenius curve.

ACCIDENT PROFILE

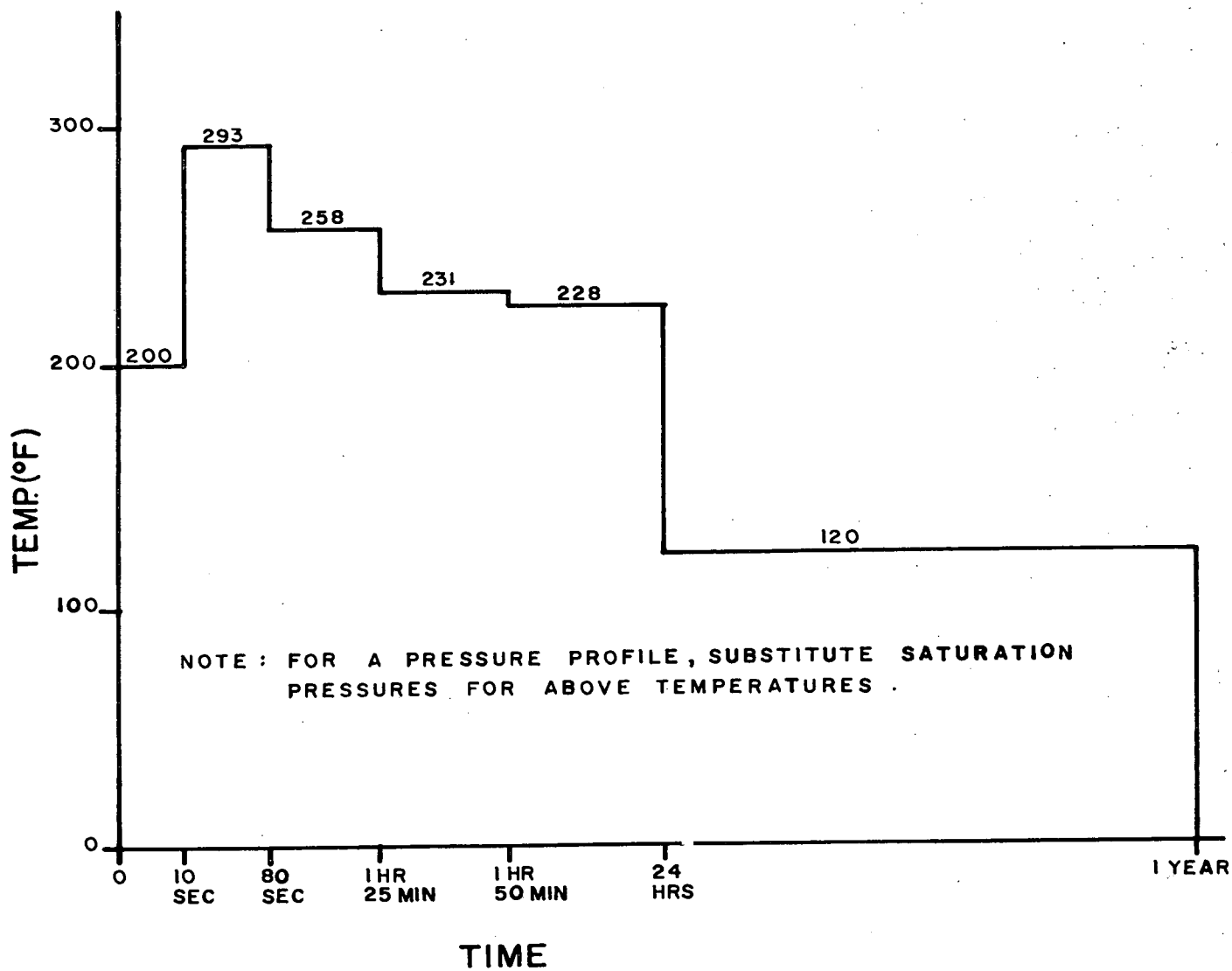


FIGURE F-1

UNITED BRETHREN CO.
MADE IN U.S.A.

NO. 3415
SEMI-CRATERMIC
5 CYCLES X 10 DIVISIONS PER INCH

10⁷

10⁶

10⁵

10⁴

10³

10²

REV 0
12/19/83

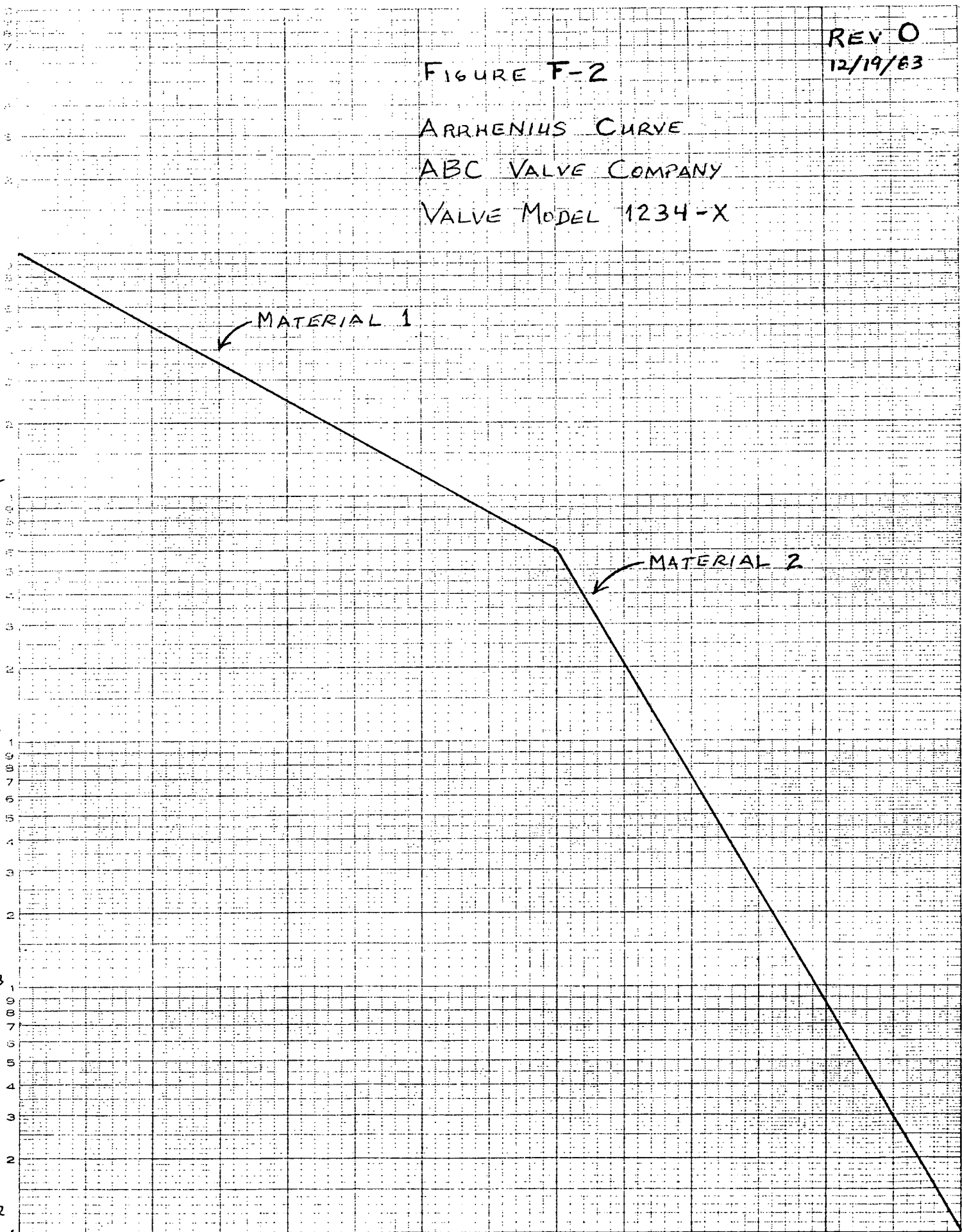
FIGURE F-2
ARRHENIUS CURVE
ABC VALVE COMPANY
VALVE MODEL 1234-X

TIME (HOURS)

MATERIAL 1

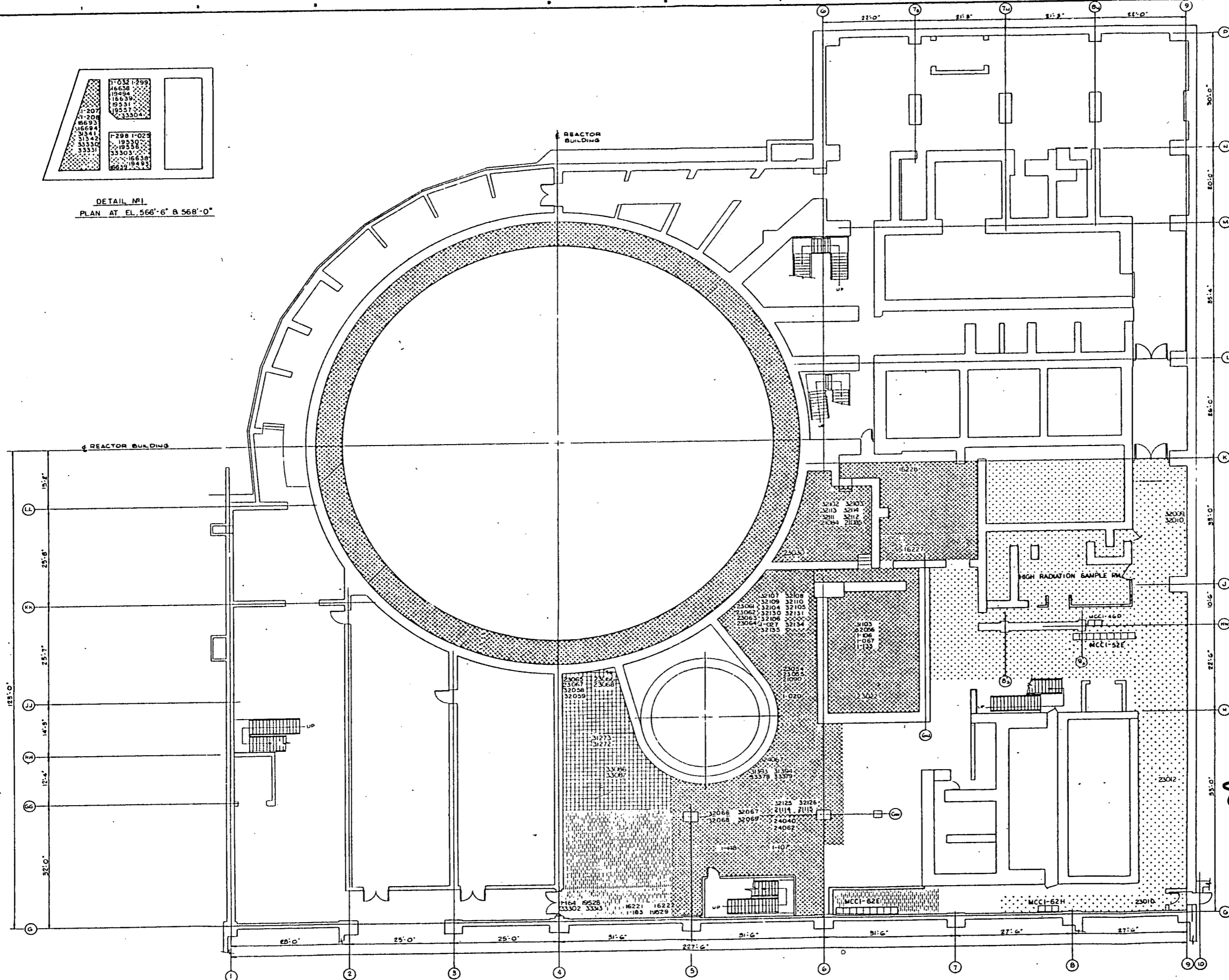
MATERIAL 2

3.464 (60°F) 3.307 3.151 2.995 2.838 2.682 2.562 F-6 2.369 (300°F)
1/°K x 10³



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DETAIL #1
PLAN AT EL. 566'-6" & 568'-0"



TI APERTURE CARD

EL. 586'

THIS DRAWING WAS ISSUED AS PART OF THE REPORT ENTITLED 'DESIGN REVIEW OF POST ACCIDENT PLANT SHIELDING AND EQUIPMENT RADIATION QUALIFICATION' DONE BY FLUOR POWER SERVICES INC. AND TRANSMITTED TO WPSO FEBRUARY 13 1983 (WPS-4048) AND MARCH 30 1983 (WPS-4048)

Also Available On Aperture Card

- NOTES:
- 1. AREA SHADING LEGEND REPRESENT 40 YEARS NORMAL + ONE YEAR POST ACCIDENT TID
 - 2. NEW SHIELDING WALLS ARE SHOWN AS SHADED

LEGEND:

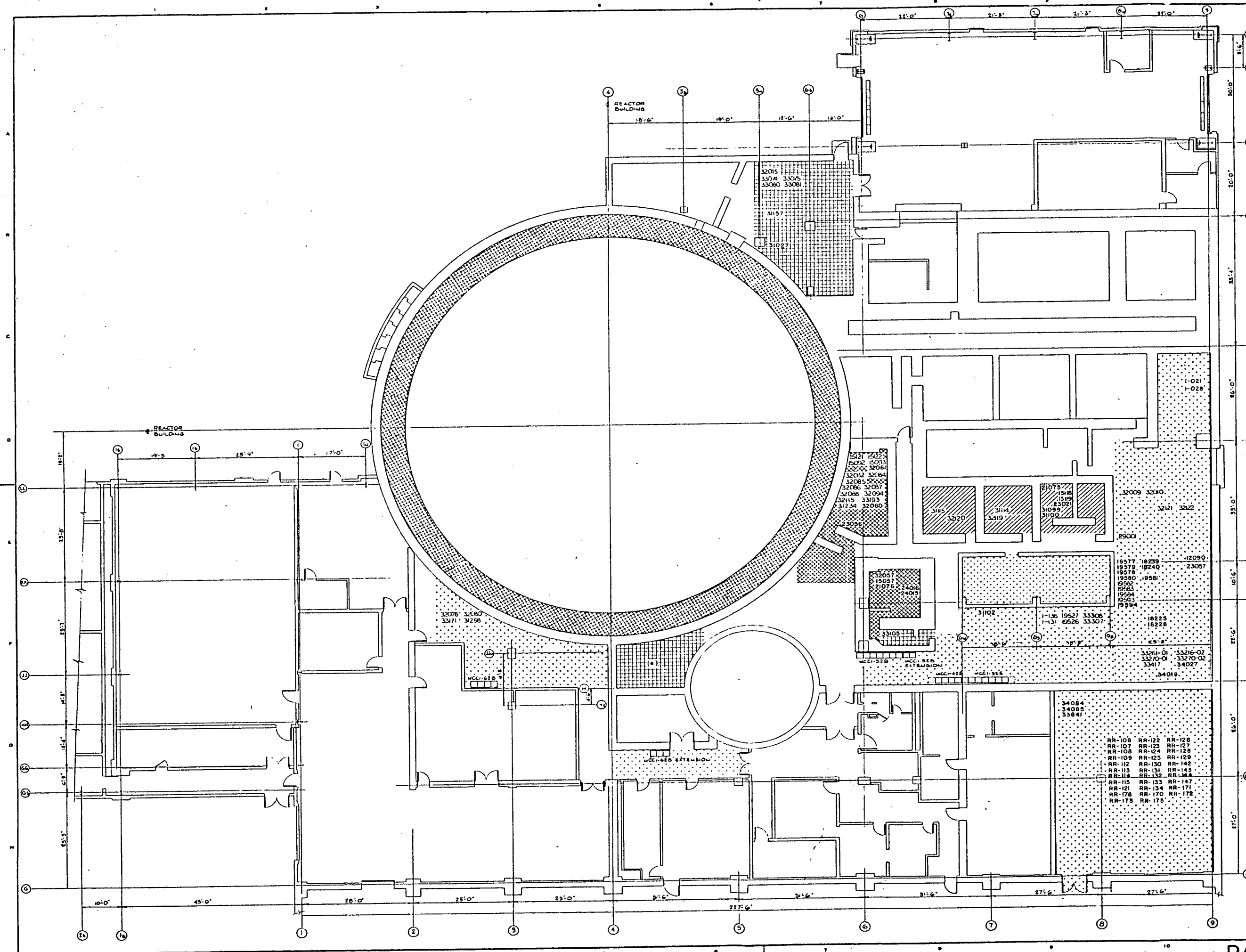
- TID > 10'
- 10' < TID < 10'
- 10' < TID < 10'
- 10' < TID < 10'
- TID < 10'

8403270038-01

PREDICTED DOSE RATES FOLLOWING WREST CASE LOCAL APERTURES CORRELATE WITH W.A. INC. SEC. OVERLAY 1-A
NO INFORMATION FILED - NO FUTURE REVISIONS WILL BE MADE TO THIS DRAW.

WISCONSIN PUBLIC SERVICE CORPORATION KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1 CARLTON, KEWAUNEE COUNTY, WISCONSIN			
TOTAL INTEGRATED DOSE ZONE MAP REACTOR B AUXILIARY BUILDING BASEMENT FLOOR			
Prepared by FLUOR POWER SERVICES, INC. CHICAGO, ILLINOIS 60608			
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE
DATE	DATE	DATE	
PROJECT NO.	APP'NT. NO.	DATE	
CUSTOMER NO.	CLIENT'S DRAWING NO.	REVISION	
	A342	1A	

REVISIONS
A THE RESULTS STATED IN THE FOLLOWING LETTERS ARE SHOWN ON THESE DRAWINGS THEY WERE BASED ON AND ARE AN EXTENSION OF THE REVISED REQUEST LETTER WPSO-4048 FROM FLUOR POWER SERVICES INC. TO WPSO DATED AUGUST 18 1982 AND LETTER WPSO-40759 FROM FLUOR POWER SERVICES INC. TO WPSO DATED AUGUST 24 1982 AFFO. JOT 12-22-82 PLMO WRS 1-11-83 REV. D 12-19-83



TI APERTURE CARD

Also Available On Aperture Card

THIS DRAWING WAS ISSUED AS PART OF THE REPORT ENTITLED "DESIGN REVIEW OF POST ACCIDENT FLUAT SHIELDING AND EQUIPMENT RADIATION QUALIFICATION" DONE BY FLUOR POWER SERVICES INC. AND TRANSMITTED TO WISC FEDERAL ID FROM (APD-10340) AND MARCH 20 1983 (APD-10340)

EL. 606

(a)-DENOTES THE FOLLOWING COMPONENTS:

33024	33072	33120	33143
33145	33146	33153	33156
33137	33132	33137	33134
33135	33093	33159	33259
33260	33261	33243	33244
33217	33335	33271	32095
33216	33170	3307	

NOTES:
 1. AREA SHADING LEGEND REPRESENT 40 YEARS NORMAL + ONE YEAR POST ACCIDENT TID
 2. NEW SHIELDING WALLS ARE SHOWN AS SHADED

LEGEND:

- TID > 10⁷
- 10⁶ < TID < 10⁷
- 10⁵ < TID < 10⁶
- 10⁴ < TID < 10⁵
- TID < 10⁴

8403270038-02

PREDICTED DATA BASED FOLLOWING WORST CASE AREA ASSUMPTIONS CONSISTENT WITH P.S.A. AND SSC GUIDE 1.4
 THE INFORMATION ONLY - NO FUTURE REVISIONS WILL BE MADE TO THIS DRAW.

WISCONSIN PUBLIC SERVICE CORPORATION
 KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

TOTAL INTEGRATED DOSE ZONE MAP
 REACTOR B AUXILIARY BUILDING
 MEZZANINE FLOOR

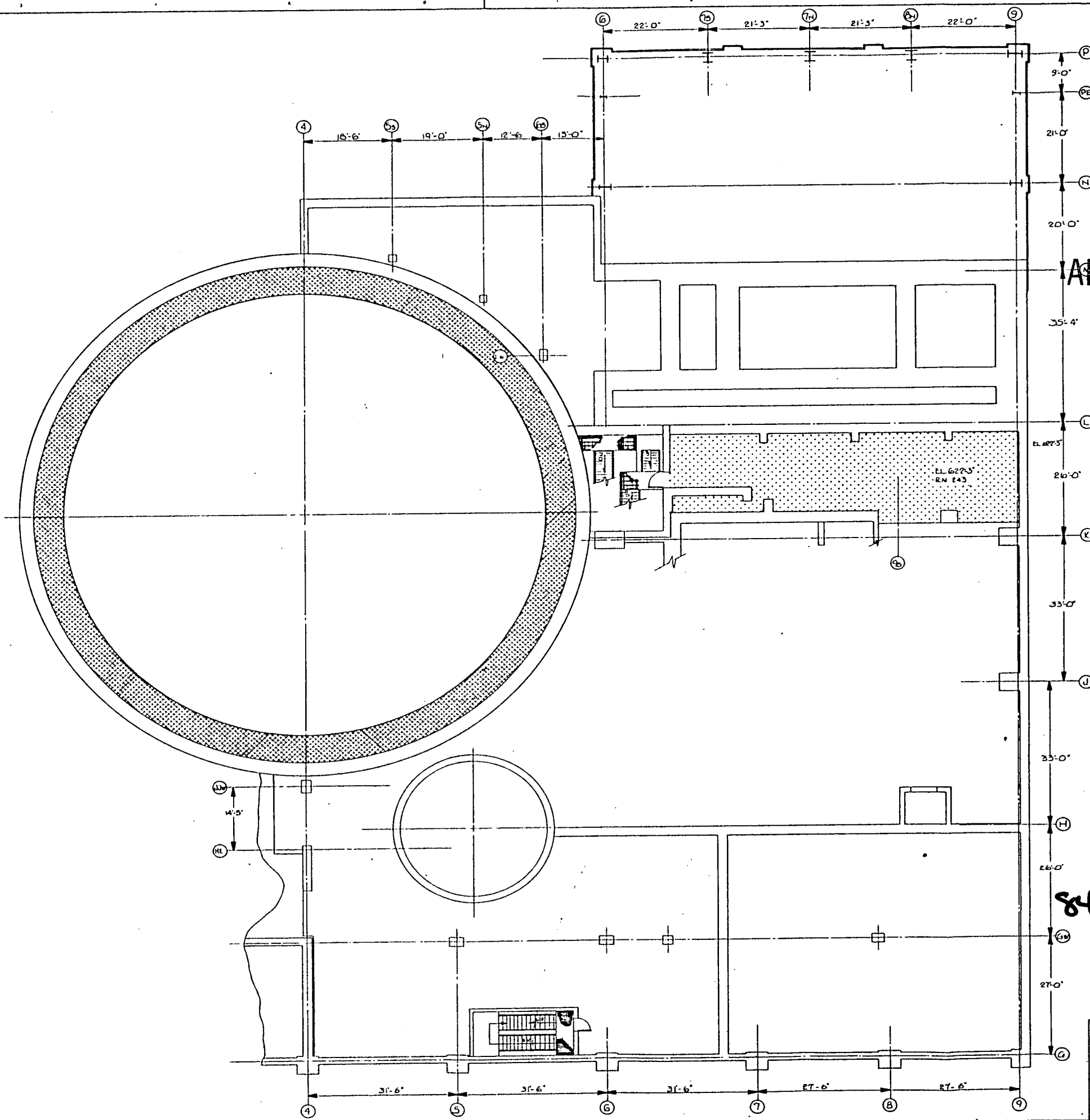
FLUOR POWER SERVICES, INC.
 CHICAGO, ILLINOIS 60601

DESIGNED BY	DATE	PROJECT	DATE	DESIGNED BY	DATE
DR	DATE	APPROVED BY	DATE	DR	DATE
PROJECT NO.	ESTIMATE	TITLE	SCALE	REVISION	DATE
CUSTOMER NO.		CLIENT NUMBER		DATE	

A 343-A

REVISIONS

FILE NO.	5-5-77
A THE RESULTS STATED IN THE FOLLOWING LETTER ARE SHOWN ON THESE DRAWINGS THEY WERE BASED ON AND ARE AN EXTENSION OF THE REFERENCED REPORT LETTER KPS-10777 FROM FLUOR POWER SERVICES INC. TO ILLINOIS POWER BOARD OF WISC DATED AUGUST 10 1982 AND LETTER KPS-1078 FROM FLUOR POWER SERVICES INC. TO ILLINOIS POWER BOARD OF WISC DATED AUGUST 24 1982 APPROV. 12-22-82 FILED WISC 1-11-83	
REV.	0
DATE	12-19-83



TI
APERTURE
CARD

Also Available On
 Aperture Card

EL. 622'-3"

THIS DRAWING WAS ISSUED AS AN
 EXTENSION TO THE REPORT ENTITLED
 "DESIGN REVIEW OF POST ACCIDENT
 PLANT SHIELDING AND EQUIPMENT
 RADIATION QUALIFICATION DONE BY
 FLUOR POWER SERVICES INC AND
 TRANSMITTED TO WSCC ON FEBRUARY 14,
 1982 (KPS-10346) AND MARCH 20 FBI
 (KPS-10346). THE RESULTS SHOWN ARE
 STATED IN THE FOLLOWING LETTERS
 WHICH WERE ALSO BASED ON AND ARE
 AN EXTENSION OF THIS REPORT, LETTER
 KPS-10346 FROM FLUOR POWER SERVICES
 INC TO J.G. THORNTON OF WSCC DATED
 OCTOBER 20 1982 AND LETTER KPS-10346
 FROM FLUOR POWER SERVICES INC TO
 J.G. THORNTON OF WSCC DATED
 AUGUST 24, 1982.

NOTES:
 1. AREA SHADING LEGEND REPRESENT
 40 YEARS NORMAL + ONE YEAR
 POST ACCIDENT TID

- TID > 10⁷
- 10⁶ < TID < 10⁷
- 10⁵ < TID < 10⁶
- 10⁴ < TID < 10⁵
- TID < 10⁴

84032 70038-03

PREDICTED DOSE RATES FOLLOWING
 WORST CASE LOCA ASSUMPTIONS
 CONSISTENT WITH US NRC REG GUIDE 1.4
 FOR INFORMATION ONLY IN LITHO
 REVISION 1111 BY DATE TO 1983 10-11



237127A-373 A

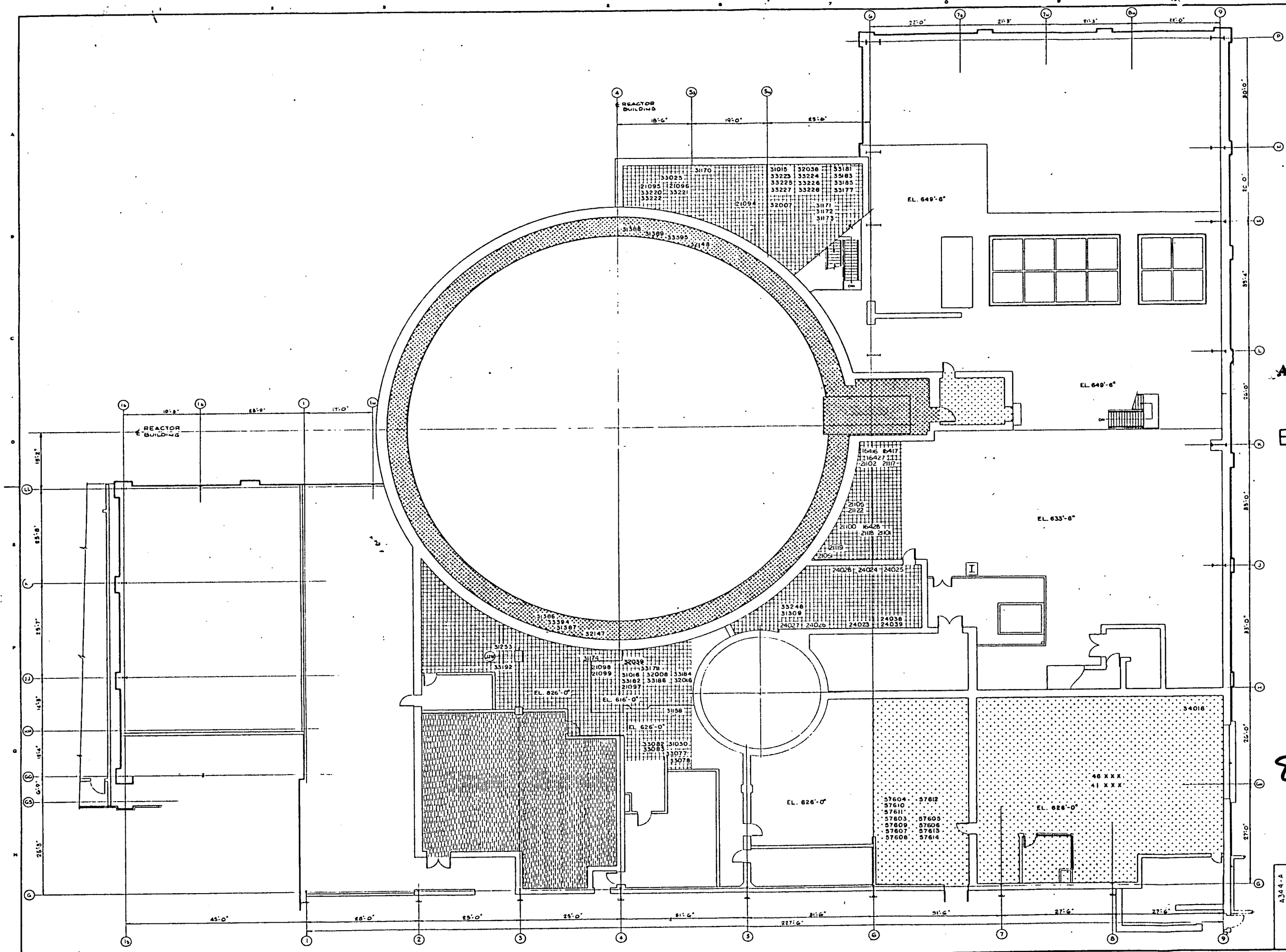
237127A-A-373-A	
DESIGN SECTION APPROVAL	DATE
ELECTRICAL	
MECHANICAL	
PLUMBING	
STRUCTURAL	
OTHER	

WISCONSIN PUBLIC SERVICE CORPORATION
 KEWAUNEE NUCLEAR POWER PLANT, UNIT NO. 1
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

**TOTAL INTEGRATED DOSE ZONE MAP
 GENERAL ARRANGEMENT**

DESIGNED BY
WISCONSIN PUBLIC SERVICE CORP.

APPROVED: _____ PROJECT & DRAWING NO: 237127A-A-373-A



REVISIONS
 A) THE RESULTS STATED IN THE FOLLOWING LETTERS ARE SHOWN ON THESE DRAWINGS THEY WERE BASED ON AND ARE AN EXTENSION OF THE REFERENCED REPORT. LETTER KP2-6709 FROM FLUOR POWER SERVICES INC TO U.G. THORSEN OF WPSO DATED AUG. 24 1982. LETTER KP2-6770 FROM FLUOR POWER SERVICE INC TO CALS/CHROCK OF WPSO DATED DEC. 3 1982. APPDGT 0-22-82 FLMD WPS: 1-11-83
 REV. 0
 12-19-83

APERTURE CARD

Also Available On Aperture Card

EL. 626'

THIS DRAWING WAS LOANED AS PART OF THE REPORT ENTITLED "DESIGN REVIEW OF POST ACCIDENT PLANT SHIELDING AND EQUIPMENT QUALIFICATION" FROM FLUOR POWER SERVICES INC AND TRANSMITTED TO WPSO FEBRUARY 10 1983 (KP2-6546) AND MARCH 30 1983 (KP2-6546)

NOTE: AREA SHADING LEGEND REPRESENT 40 YEARS NORMAL + ONE YEAR POST ACCIDENT TID

LEGEND:

- 110^-10^7
- 10^6 110^-10^7
- 10^5 110^-10^8
- 10^4 110^-10^8
- 110^-10^4

8403270038-04

PREDICTED WIND DATA FOLLOWING WINDY CASE LOCAL ASSUMPTIONS CONSISTENT WITH U.S. AND IAEA GUIDE 1.1 FOR INFORMATION ONLY - NO FURTHER RELIANCE MUST BE MADE ON THIS DATA.

SEAL

WISCONSIN PUBLIC SERVICE CORPORATION
 KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
 CARLTON KEWAUNEE COUNTY WISCONSIN

TOTAL INTEGRATED DOSE ZONE MAP
 REACTOR B AUXILIARY BUILDING
 OPERATING FLOOR

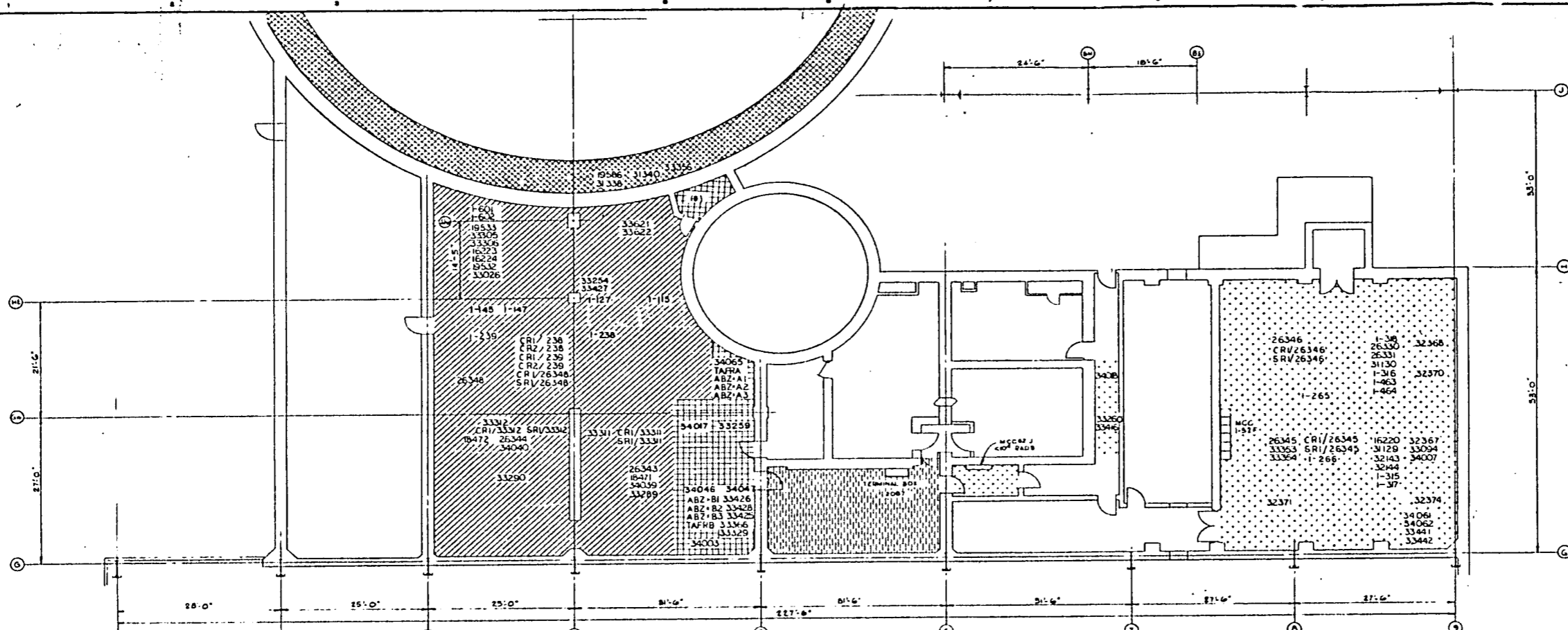
FLUOR POWER SERVICES, INC.
 CHICAGO, ILLINOIS 60601

DESIGNER	DATE	CHECKED	DATE	APPROVED	DATE

PROJECT NO. DRAWING NO. SHEET NO. TOTAL SHEETS

CLIENT NO. FLUOR POWER NO. FLUOR NO.

A344-A



PLAN AT ELEVATION 642'-3"

II APERTURE CARD

EL. 642'-3"

Also Available On Aperture Card

THIS DRAWING WAS ISSUED AS PART OF THE REPORT ENTITLED "DESIGN REVIEW OF POST-ACCIDENT PLANT SHIELDING AND EQUIPMENT RADIATION QUALIFICATION" DONE BY FLUOR POWER SERVICES INC. AND TRANSMITTED TO WPSO FEBRUARY 15 1981 (KPS-60000) AND MARCH 30 1981 (KPS-60340)

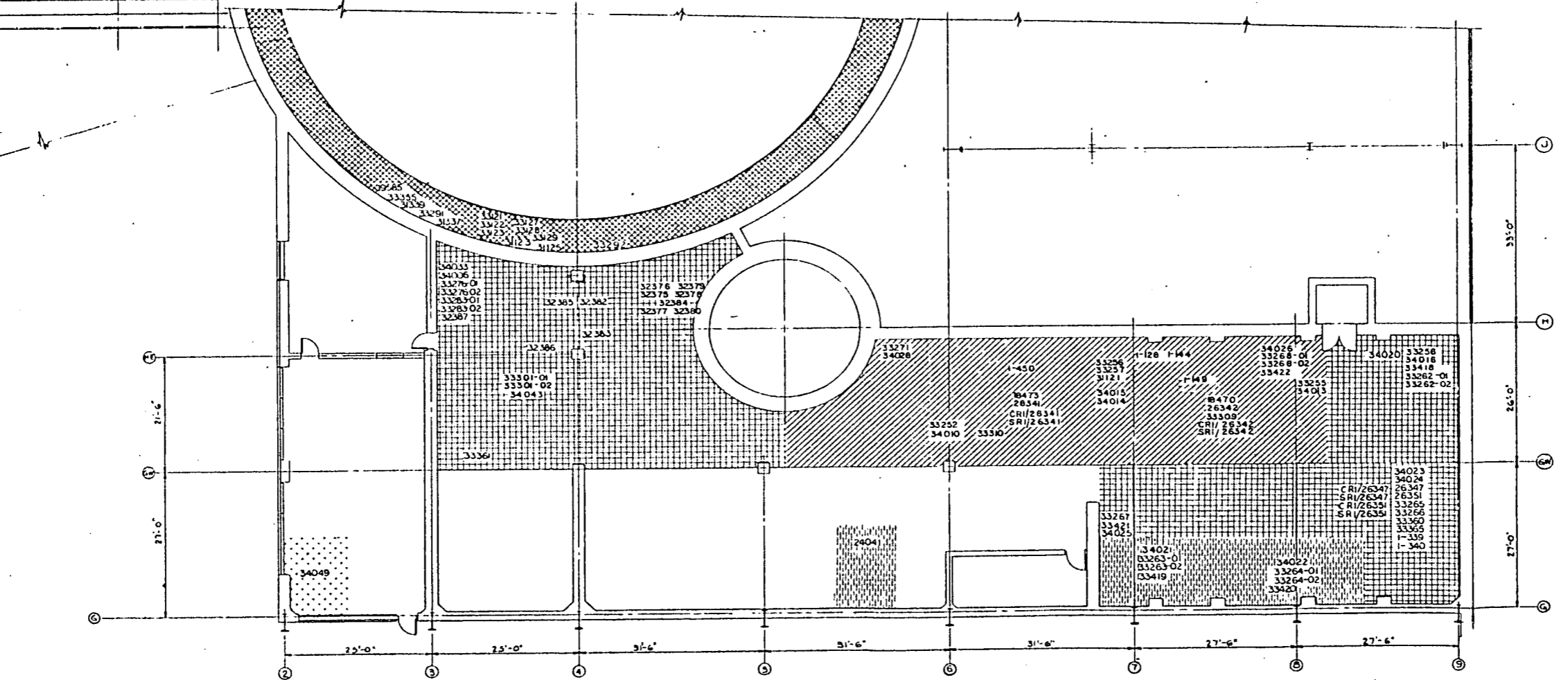
M- DENOTES THE FOLLOWING EQUIPMENT:
 33325 33326 33327
 33287 33288 33383 33384 33385
 33385 33386 33387

NOTE:
 AREA SHADING LEGEND REPRESENT 40 YEARS NORMAL + ONE YEAR POST ACCIDENT TID

LEGEND:

- TID > 10⁷
- 10⁶ < TID < 10⁷
- 10⁵ < TID < 10⁶
- 10⁴ < TID < 10⁵
- TID < 10⁴

EL. 575'-6"



PLAN AT ELEVATION 575'-6"

PREDICTED DOSE RATES INCLUDING WASTY CASE LOCA ASSUMPTIONS CONSISTENT WITH P.S. REC AND QTR 1.4

1.4. INFORMATION LIST - NO LISTING REVISIONS WILL BE MADE TO THIS DRAWING

REVISION	DATE	BY	DESCRIPTION
REV. 0	12-19-83		

NO.	DATE	APPROVED BY	DATE	NO.	DATE	APPROVED BY	DATE

NO.	DATE	APPROVED BY	DATE

WISCONSIN PUBLIC SERVICE CORPORATION
 KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1
 CARLTON, KEWAUNEE COUNTY, WISCONSIN

TOTAL INTEGRATED DOSE ZONE MAP
 REACTOR B AUXILIARY BUILDING
 MISCELLANEOUS FLOOR

FLUOR POWER SERVICES, INC.
 CHICAGO, ILLINOIS 60601

PROJECT NO. 8403270038-05
 SHEET NO. A345
 DIVISION A