

0060606

A-23
50348/364 - CIVP
2/20/92

92 MAR 13 P4:17

OFFICE OF SECRETARY
BUCKETING & SERVICE
BRANCH

FNP-0-ETP-4108
October 20, 1983
Revision 0

FARLEY NUCLEAR PLANT
ENGINEERING TECHNICAL PROCEDURE
FNP-0-ETP-4108

FNP ENVIRONMENTAL QUALIFICATION PROGRAM

S
A
F
E
T
Y

R
E
L
A
T
E
D

SUPERCEDED

Approved:

1.5.1.1
Systems Performance & Planning Superintendent

Date Issued: _____

Diskette #ETP-47

Docket No. 50-348744 CIVIL Original Ex. No. 23
 in the matter of Alabama Power Company
 Trial IDENTIFIED 1:05 p.m. 2/20/92
 Appointed ✓ RECEIVED 1:05 p.m. 2/20/92
 Intervenor REFUSED
 Court's Officer _____
 Contractor _____ DATE 2/20/92
 Other _____ WITNESS _____
 Reporter L. Cole

0060607

PROCEDURE REQUEST FORM-3

1. Procedure Number END-6-01P-011 Revision Number 0
 Procedure Title END ENVIRONMENTAL QUALIFICATION PROGRAM

☒ Safety Related ☐ Non-Safety Related
☒ New Procedure Request
☒ Procedure Revision, New Revision Number _____
☒ Temporary Procedure Change, Effective until next permanent change, TCN 01
☐ Temporary Procedure Change, Req'd. by Plant Conditions, TCN _____
☐ Temporary Procedure Change, One Time Use, TCN _____
☐ Delete procedure

2. Change Summary

2.1 Procedure Page Numbers Affected by Change APPENDIX J, PAGE 2

2.2 Description of Changes REPLACE PAGE 2 OF APPENDIX J WITH PAGE OF THIS CHANGE

2.3 Reason for Change VENDOR CHANGED MODEL NO OF BOOT
FROM BA-749-20043 TO BA-749-20043 ID
EA-749-20043. NETS HAS VERIFIED THAT THIS
CHANGE DOES NOT AFFECT ENVIRONMENTAL QUALIFICATION.

3. Prepared By [Signature], GPE SUPV, 3-23-84
 Signature Title Date

4. Reviewed By [Signature], GPE Supt, 3/23/84
 Signature Title Date

5. Cross-Disciplinary/PORC Review

| Group | Signature | Title | Date |
|--------------|--------------------|--------------|----------------|
| <u>MAINT</u> | <u>[Signature]</u> | <u>GPE I</u> | <u>3-23-84</u> |
| | | | |
| | | | |

6. Temporary Change Approval (Signature/Date)

- ☒ Member Group Staff
☐ Shift Foreman
☒ Senior Reactor Operator
☐ Plant Manager

[Signature] 3-23-84
[Signature] 3/23-84

7. Final Approval (Signature/Date, required within 60 days of temporary approval)

- ☐ Group Supervisor
☐ Plant Superintendent
☐ MSAER
☐ Vice President - Nuclear Generation
☐ Plant Manager

[Signature] 3-23-84

NUCLEAR SAFETY EVALUATION CHECK LIST
10 CFR 50.59

0060508

- (1) UNIT N/A
(2) CHECK LIST APPLICABLE TO: ENP-C-ETP-4108 Revision 0 TCN
(3) SAFETY EVALUATION - PART A

The procedure, procedure change or modification to which this evaluation is applicable represents:

- (3.1) Yes No ✓ A change to the plant as described in the FSAR?
(3.2) Yes No ✓ A change to procedures as described in the FSAR?
(3.3) Yes No ✓ A test or experiment not described in the FSAR?
(3.4) Yes No ✓ A change to the Technical Specifications or Operating License?

If the answer to question 3.1, 3.2 or 3.3 is "YES," complete Item (4) and attach a 10 CFR 50.55 evaluation. If the answer to all of the above is "No," omit Item (4) and Item (9). If the answer to question 3.4 is "Yes," complete a 10 CFR 50.92 check list.

(4) SAFETY EVALUATION - PART B

- (4.1) Yes No Will the probability of an accident previously evaluated in the FSAR be increased?
(4.2) Yes No Will the consequences of an accident previously evaluated in the FSAR be increased?
(4.3) Yes No May the possibility of an accident which is different than any already evaluated in the FSAR be created?
(4.4) Yes No Will the probability of a malfunction of equipment important to safety previously evaluated in the FSAR be increased?
(4.5) Yes No Will the consequences of a malfunction of equipment important to safety different than any already evaluated in the FSAR be increased?
(4.6) Yes No May the possibility of a malfunction of equipment important to safety different than any already evaluated in the FSAR be created?
(4.7) Yes No Will the margin of safety as defined in the basis to any Technical Specification be reduced?

If the answer to any of the above questions is "Yes," an unreviewed safety question is involved. Explain the basis for each answer provided in Section 4.

- (5) REMARKS: (Attach additional pages if necessary) CHANGE VENDOR
MODEL NUMBER AS APPROVED BY NETS.

(6) PREPARED BY: [Signature] DATE 3-23-84
(7) REVIEWED BY: [Signature] DATE 3/27/84
(8) PORC REVIEW: DATE
(9) NORB REVIEW: DATE

Distribution

Original: Document Control File A216226

Preventative Maintenance Requirements

Page 2

- Top cover gasket kit; EA-749-20021
- Bottom cover gasket kit; EA-749-20026
- Contact carrier kit; EA-749-20032
- Contact block kit; EA-749-20036
- Boot and retaining ring kit; EA-749-20043

TCN
9A

See the attached HAMCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for these maintenance activities.

ASCO Solenoid Valves: NP8316, NP8320, NP8321, 206-381

Requirement: Replace the coil, all resilient parts and manual operator assembly (optional feature). To order spare part kits, coils and manual operator assemblies, specify the valve catalog number, serial number and voltage. See attached ASCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for the maintenance activities.

Indeterminate Life Equipment

Equipment: Barton transmitters; models 763 and 764
 Foxboro transmitters; models E11GM (MCA) and E13DM
 GEMS Delaval transmitters; XM-36495
 GEMS Delaval level sensor; XM-54854
 GEMS Delaval level switch; LS-36497
 Target Rock solenoids; 79AB001.

Requirement: The qualified life and environmental qualification preventive maintenance activities will be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

U 2 4 9 5 / 2 0

FARLEY NUCLEAR PLANT
ENGINEERING TECHNICAL PROCEDURE
FNP-0-ETP-4108

FNP ENVIRONMENTAL QUALIFICATION PROGRAM

1.0 Purpose

This procedure assigns responsibility and describes the process for implementation of the FNP Environmental Qualification Program.

2.0 Environmentally Qualified Equipment Documentation

Basic documents and records used to establish program controls are: (1) Master List of Environmentally Qualified Equipment, (2) Environmental Qualification Test Report List, (3) Environmental Qualification Test Reports, (4) Component Maintenance and Replacement Schedule, (5) Specifications, and (6) Environmental Qualification Surveillance Records.

2.1 Master List of Environmentally Qualified Equipment

This list identifies by system, plant ID number, generic name, manufacturer, model number, and location components required to be environmentally qualified. Revisions and changes to this list are prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This list is included as Appendices I and II of this procedure.

2.2 Environmental Qualification Test Report List

This list identifies approved environmental qualification test reports and the components to which they apply. Revisions and changes to the list shall be prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This list is included as Appendix III of this procedure.

2.3 Environmental Qualification Test Reports

Environmental Qualification Test Reports provide the technical basis for determining the qualified life of an environmentally qualified component. NETS (Design and Licensing) will ensure that a complete review of the qualification documents is performed. The review of the vendors test

02993 1727

reports and other qualification documents should demonstrate their acceptability to the specific Farley requirements.

The appropriate organization, chosen by NETS (Design and Licensing), performing the technical evaluations will determine if the test reports and other vendor information such as component material lists sufficiently demonstrates the capability of the subject equipment to withstand the stresses of a harsh environment resulting from a postulated LOCA or high energy line break at FNP.

The reviewing organization will complete an Environmental Qualification Report Evaluation (Figure 1), Component Evaluation Work Sheet (CEWS) (Figure 2), and the necessary calculations to document the results of the evaluation. The Environmental Qualification Report Evaluation, CEWS and the calculations will be forwarded to NETS (Design and Licensing) including a summary of the technical adequacy of the vendor's test reports and information. As a minimum, the reviewing organization will also generate the environmental maintenance requirements including the identity of the subcomponents requiring periodic replacement, their replacement frequency, life category, and appropriate service manual and procedures for inclusion into plant procedures.

The CEWS should be completed to the extent practical without specifying the application of the instrument. The format of the CEWS will document the results of the test report and provide APCo the means to update the regulatory responses as desired. Calculations performed by Westinghouse, Bechtel or SCS are not required at this time to be forwarded to NETS (Design and Licensing) if appropriately referenced in the evaluation summary, but must be retained in their engineering files subject to APCo evaluations and audits. All calculations performed by other organizations must be forwarded to NETS (Design and Licensing).

If the subject equipment is authorized for purchase, NETS (Design and Licensing) will forward the Environmental Qualification Report Evaluation, CEWS, appropriate calculations, evaluation summaries, and vendor test reports and information to the Systems Performance Superintendent for review to verify proper

incorporation in the Environmental Qualification Test Report List. The Systems Performance Superintendent shall forward these documents to FNP Document Control for permanent retention.

2.4 Component Maintenance and Replacement Schedule

The Component Maintenance and Replacement Schedule provides the qualified life of each component included in the environmental qualification program. A component's qualified life is determined from engineering calculations using test report data. The Component Maintenance and Replacement Schedule is prepared and reviewed by NETS and approved by the Systems Performance Superintendent. This schedule is maintained as a controlled document in the FNP Document Control system. This schedule is used for scheduling PM tasks and replacement of environmentally qualified components. This list is included as Appendix IV of this procedure.

2.5 PM Specifications

The environmental qualification PM Specifications identify the manufacturer, model, and required maintenance activities for all environmentally qualified components. Preventive Maintenance Specifications will be prepared and reviewed by NETS and forwarded to the Systems Performance Superintendent for approval and incorporation in the environmental qualification files maintained by Document Control. This list is included as Appendix V of this procedure.

2.6 Environmental Qualification Surveillance Records

2.6.1 The Specimen Surveillance Checklist (Figure 3) is used to document examination of environmentally qualified components. This checklist is completed by Maintenance personnel performing examinations described in Section 3.0. Completed Specimen Surveillance Checklists are forwarded to Systems Performance for review. Following review by Systems Performance these checklists are forwarded to Document Control for retention in the environmental qualification files.

2.6.2 Document Summary Sheets

In concert with the reviews of the Specimen Surveillance Checklist for

indeterminate life equipment. Systems Performance will complete a review of other documentation that may provide insights to the condition of the equipment. These documents will include: completed maintenance work requests; operating logs and data; completed Technical Specification surveillance tests; preventive maintenance plans and schedules; vendor information and notices concerning equipment utilization, function, capabilities, maintenance, defects and non-compliances; regulatory documents concerning adverse test reports, vendor anomalies, and service information; other Document Summary Sheets; and utility group information. Due to the number of documents involved, consideration should be selectively given to those documents having significant relevance to environmental qualification or the specific equipment under review to avoid diluting these efforts with inconsequential material. The review shall be documented on the Document Summary Sheet (Figure 4) for future reference.

A Document Summary Sheet may be completed for limited or 40-year life equipment at the discretion of the Systems Performance Supervisor, when evidence of unexpected aging is identified by a review of the Specimen Surveillance Checklist or other documentation.

3.0 Environmental Qualification Surveillance

Although the term "surveillance" is used in IEB 79-01B to describe the monitoring of age degradation, it should not be construed as an additional safety related surveillance test required by the Technical Specifications. It should be noted, the surveillance program discussed herein does not include or supercede any Technical Specification requirements.

There are three types of equipment addressed by the program: equipment with an indeterminate life but, in all other aspects, is qualified; equipment with a limited life; and equipment with 40-year life (see Tables 1 and 2 of the Component Maintenance and Replacement Schedule). Each of these categories will have an incremental increase in surveillance requirements to

compensate for the susceptibility to, or indeterminate aspects of, the aging degradation. The functional capability of 40-year life equipment, as with all equipment, is presently subject to the normal cognitive responsibilities of plant personnel; no additional surveillance requirements will be specified by this program. Limited life equipment will include a documented examination of a sample of the subcomponents (specimen) replaced at the end of their documented life. The equipment with an indeterminate life will include an examination of a specimen as well as a completion of a documented evaluation of in-house records providing insights to the condition of the equipment.

3.1 Maintenance Responsibilities

3.1.1 Maintenance shall perform required visual examination of environmentally qualified components. The purpose of the examination is to identify aging degradation. Evidence of degradation will include, but not be limited to; leakage or other indications of failure; discoloration other than stain from extrinsic matter; surface degradation such as cracking, bubbling, adhesiveness, corrosion, diffusion, moldering, and loss of elasticity or other properties critical to the intended function of the specimen; excessive deformation such as elongation or loss of general dimensional integrity. The Specimen Surveillance Checklist (Figure 3) will be used to document examination of the specimen. Maintenance will forward all completed Specimen Surveillance Checklists to Systems Performance for review and evaluation. The Specimen Surveillance Checklist is completed in accordance with the following instructions.

INSTRUCTIONS FOR COMPLETING SPECIMEN SURVEILLANCE CHECKLIST

IDENTITY

TPNS No.

Enter the complete TPNS number, including the system identifier from which the specimen is chosen.

Date

Date specimen is examined.

| | |
|-----------------------|---|
| Component | Generic name of the component (e.g., limit switch, solenoid, etc.). |
| Manufacturer | Name of company that provided component. |
| Model | Manufacturer's model number of the component. |
| Unit | Unit 1 or 2. |
| Location | Containment or Auxiliary Building. |
| <u>AUTHORIZATION</u> | |
| WA | Number of work authorization that authorizes the activity. |
| <u>EXAMINATION</u> | |
| Specimen | Identity of subcomponent under examination (e.g., cover gaskets, coil etc.). |
| Part Number | Enter the manufacturer's part number of the specimen if known and the manufacturer if different from the component. |
| Failure | Describe any evidence of the specimen having failed to perform its intended function. |
| Discoloration | Describe any specimen discoloration other than stains from extrinsic matter. |
| Surface Degradation | Describe any degradation of the specimen critical to its intended function. |
| Geometric Deformation | Describe any deformation of the specimen other than that attributed to accidental impact or dismantling. |
| Other Evidence | Describe any other indications of degradation important to the function of the specimen not addressed above, or any general remarks on the condition of the specimen. |
| Results | Examiner shall summarize the capabilities of the specimen and component discernible by the examination. |
| Examiner | Signature of the individual designated to perform examination. |

| | |
|--------------------------------|---|
| Maintenance Supervisor | Signature of Maintenance Supervisor who ensures adequate examination was completed. |
| Recommendation | Systems Performance reviewer will provide a scheme to resolve any identified degradation. |
| Reviewer | Signature of Systems Performance personnel who has reviewed checklist. |
| Systems Performance Supervisor | Signature of Supervisor to ensure a complete evaluation and adequate recommendation. |

3.1.2 The PM Coordinator shall prepare a Preventive Maintenance Task Sheet for each required environmental qualification PM task. Required environmental qualification PM tasks are identified by the list of PM Specifications described in section 2.5 of this procedure. Appropriate maintenance procedures and vendor service manuals to perform the maintenance will be referenced by the task description. Parts, components, and subassemblies subject to the visual examination described in section 3.1.1 are identified as replacement parts in the PM Specification list.

3.1.3 The PM Coordinator shall schedule environmental qualification PM tasks. Environmental qualification PM tasks may not be deferred past the end of the qualified life of a component. The qualified life of an environmentally qualified component is listed in the Component Maintenance and Replacement Schedule described in section 2.4. The Maintenance Supervisor shall be responsible for notifying Systems Performance and NETS (Design and Licensing) of any delays in replacing components at the end of their qualified life. NETS will evaluate the consequences of the delays to replace components and document justification of interim operation.

3.1.4 The PM Coordinator will select components which are to be subjected to the examination described in section 3.1.1. The choice of components may be random or may be based on suspicious operation.

regulatory notification, vendor information, etc. Only one component from each manufacturer's generic model is necessary unless more stringent surveillance requirements have been prescribed by Systems Performance. Manufacturer's generic models located both inside and outside the containment will be sampled separately, i.e., a specimen from inside the containment will not negate the need for a specimen from outside the containment, and vice versa.

3.1.5 Environmentally qualified components with an indeterminate life that are replaced as a result of failure shall be subjected to the examination described in section 3.1.3 to determine if age degradation contributed to the failure. Parts to be examined will be determined by analysis of the available information on the known material used in construction and test reports of the vendor's analogous equipment with an established life.

3.1.6 Efforts will be made to ensure that corrective maintenance will not compromise the qualification status of the equipment identified on the Equipment Master List. For such equipment, the Maintenance Planners will include a statement on the Maintenance Work Request that the subject equipment is environmentally qualified and replacement parts will be replacement-in-kind commodities.

3.2 Systems Performance Group Surveillance Responsibilities

3.2.1 Maintenance will forward all Specimen Surveillance Checklists to Systems Performance. The checklists will be reviewed by Systems Performance for indications of degradation affecting the functional capabilities of the material. To assess the significance of any concerns, Systems Performance will review the Document Summary Sheets prepared in accordance with section 2.3.2 of this program.

3.2.2 Systems Performance will complete the recommendations section of the appropriate surveillance checklist by

addressing such matters as: no aging identified and no action necessary, increase or decrease surveillance of similar components, further documentation, review, replace components, etc. The completed checklists will be forwarded to Document Control for retention in the environmental qualification file.

- 3.2.3 Systems Performance Group Problem Report will be prepared by Systems Performance for concerns (identified in accordance with step 3.2.2 of this program) to be resolved within the plant staff or NETS (Design and Licensing) such as procedural changes, increased surveillance, etc. The Systems Performance Group Problem Report shall clearly identify the concern and recommend the action to be taken for resolution.

Systems Performance, and NETS (Design and Licensing) as requested, will review the response to the Problems Report and determine if the concern has adequately been resolved. The problem report and resolution will be forwarded to Document Control for retention in the environmental qualification file.

- 3.2.4 Upon the receipt of a Systems Performance Group Problem Report, the Superintendent of Nuclear Design and Licensing will ensure the necessary actions are undertaken to complete the response. If an engineering study is deemed necessary, coordination with an outside engineering service may be desirable. The response to the Systems Performance Group Problem Report, as well as the results and recommendations of associated engineering studies, will be documented by a Problem Report Response Sheet and forwarded to the Systems Performance Supervisor. Recommendations may include: no significant concerns identified and no action necessary, procedure revisions, modification of qualified life, alternative vendors, design changes, etc. Significant defects and noncompliances will be evaluated for potential reportability under 10CFR50 part 21. NETS (Design and

Licensing) will prepare justification for interim operation for reportable concerns.

- 3.2.5 Systems Performance will be responsible to coordinate the implementation of the recommendations from the engineering studies. The accountability of the recommendations should be documented by preparation of Systems Performance Group Problem Reports, PCR's, WR's, etc. The engineering studies and recommendations, PCR's, Systems Performance Group Problem Reports, and other documents providing evidence of resolution of environmental qualifications concerns will be forwarded to Document Control for permanent retention in the appropriate central file location.

4.0 Procurement Control

- 4.1 Material Requisitions and Purchase Orders for environmentally qualified items shall be processed in accordance with AP-9 instructions for procurement of safety related QA Review Code "A" items.
- 4.2 Environmental qualification requirements shall be considered as part of the QA requirements. For environmentally qualified components required QA documentation shall include a certificate of compliance to the specified test report from the vendor. The test report number and revision date shall be stated in the certificate of compliance. A statement of conformance to IEEE 323-1974 or other codes and standards addressing environmental testing, unless accompanied by test data, is not sufficient.
- 4.3 A requisitioned subcomponent that is not included in the total plant numbering system shall satisfy the environmental requirements of the equipment having a TPNS No. for which the subcomponent is a constituent part. As an example, the coil of a solenoid will be qualified to the environmental test report for the solenoid and documented by requesting a certificate of conformance from the vendor. The test report requirements will be obtained from the Equipment Master List and Acceptable Test Report List via the solenoid's TPNS No. and manufacturer.
- 4.4 All cable will be procured according to standard operating procedure and will be environmentally

02993 1736

qualified. As with all other environmentally qualified equipment purchases, the test reports from vendors with equipment presently installed at FNP as identified on the Acceptable Test Report List will be referenced on the FNP Material Requisition; new vendors will be provided the standard FNP specific environmental conditions with which compliance should be established. Previous suppliers will be required to provide a certificate of compliance to the test report specified on the Acceptable Test Report List and new vendors will be required to submit their environmental qualification test reports for review. Cable will not necessarily be obtained from the original manufacturer; therefore, the manufacturers and model numbers for cables are not listed on the Equipment Master List. This will allow the design and installation of cables utilizing the FNP cable codes regardless of the manufacturer's cable available onsite.

- 4.5 The Material Supervisor will stamp the X-Req. as follows: "PLEASE DO NOT SUBSTITUTE. NATURE OF THIS REQUIREMENT IS SPECIFIC AND DOES NOT ALLOW SUBSTITUTION."

5.0 Design Control

- 5.1 A PCN will address environmental qualification if the design change:
- A. Affects equipment identified on the Equipment Master List; or
 - B. Adds equipment essential to mitigate the consequences of a LOCA or HELB while exposed to the harsh environment resulting therefrom (the only areas of a harsh environment are the containment and main steam valve room); or
 - C. Responds to a PCR referencing a Specimen Surveillance Checklist or a Document Summary Sheet.

The design organization will ensure that PCN's addressing environmental qualification adequately consider the Farley specific environmental conditions, maintenance, installation configuration, submergence level, interfaces with other components, etc. The PCN shall specify the manufacturer and model number of equipment and components, other than cable, and identify any special environmentally qualified material such as gaskets

and seals. The PCN must clearly state that the equipment is to be environmentally qualified.

As design organizations, Bechtel and SCS will prepare engineered requisitions for all environmentally qualified equipment that is identified by the PCN and not on the Acceptable Test Report List. The engineered requisition will include the license and code requirements, the primary vendor and model number, special material requirements, and a part description that clearly identifies the components to be environmentally qualified. Additionally, the engineered requisition will request a certificate of conformance and a copy of the qualification test report. The procurement of all other environmentally qualified equipment will be in accordance with "Procurement Control".

- 5.2 NETS (Design and Licensing) will review PCM's to ensure that the engineering designs provided by the design organization are adequate to resolve the existing conditions described on the corresponding PCR's. In particular, the reviews should consider whether additions and deletions to the scope of environmentally qualified equipment and the selection of manufacturers not identified on the Acceptable Test Report List are necessary and acceptable. As determined necessary from their review NETS shall prepare changes to (1) the Master List of Environmentally Qualified Equipment, (2) the Environmental Qualification Test Report List, (3) Environmental Qualification Test Reports, (4) The Component Maintenance and Replacement Schedule, and (5) PM Specifications as described in Section 2.0 of this procedure.

0060621

APPENDIX 1

MASTER LIST OF ENVIRONMENTAL QUALIFIED EQUIPMENT
UNIT 1

02493 1732

LIST OF EFFECTIVE PAGES

00000002

| PAGE NO. | REVISION NO. | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|---|---|---|----|----|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | X | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | |
| 18 | X | | | | | | | | | | | |
| 19 | X | | | | | | | | | | | |
| 20 | X | | | | | | | | | | | |
| 21 | X | | | | | | | | | | | |
| 22 | X | | | | | | | | | | | |
| 23 | X | | | | | | | | | | | |
| 24 | X | | | | | | | | | | | |
| 25 | X | | | | | | | | | | | |

0060623

Page 2 of 2

0 2 9 9 3 1 7 4 1

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.1
Sheet 1

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT INSTRUMENTATION

B-13

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-----------------|----------------|------------------|------------|----------|---------|
| | | | | FLOOR | ELEV. |
| W1B13TE412B | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| W1B13TE412D | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| W1B13TE422B | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| W1B13TE422D | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| W1B13TE432B | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| W1B13TE432D | RTD | Rosemount | 176KF | CDMT | 124'-0" |
| Q1T52B012 | Penetration | General Electric | 100 Series | CDMT | 143'-0" |
| Q1T52B028 | Penetration | General Electric | 100 Series | CDMT | 143'-0" |
| Q1T52B030 | Penetration | General Electric | 100 Series | CDMT | 143'-0" |
| 11TB001 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 11TB002 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 21TB003 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 21TB004 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 31TB001 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 31TB002 | Terminal Block | States Co. | Type ZWH | CDMT | >115' |
| 1V1V5002B.D | Instr. Cables | | | CDMT | >115' |
| 1V2V5002B.D | Instr. Cables | | | CDMT | >115' |
| 1V3V5002B.D | Instr. Cables | | | CDMT | >115' |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

MASTER LIST

0060625

Joseph M. Farley Nuclear Plant Unit 1

△ New Sheet
Section 2
Sheet 2

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13 - Reactor Coolant System (Head Vents) WIREC-0737, Section 11.2.1

| COMPONENTS | | | | | |
|-------------------|---------------------|------------------|------------|----------|----------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLOK | ELEV. |
| Q1B13SV2212A | Solenoid Valve | TARGET | 79AB001 | CTMT | >115'-0" |
| Q1B13SV2212B | Solenoid Valve | TARGET | 79AB001 | CTMT | >115'-0" |
| Q1B13SV2214A | Solenoid Valve | TARGET | 79AB001 | CTMT | >115'-0" |
| Q1B13SV2214B | Solenoid Valve | TARGET | 79AB001 | CTMT | >115'-0" |
| Q1T22B014-A | Control Penetration | General Electric | 100 Series | CTMT | >115'-0" |
| 1VAL5145B | Control Cable | | | CTMT | >115'-0" |
| 1VAL5145C | Control Cable | | | CTMT | >115'-0" |
| ALT007 | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| Q1B13SV2212A-A/JB | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| 1VAL5146B | Control Cable | | | CTMT | >115'-0" |
| 1VAL5146C | Control Cable | | | CTMT | >115'-0" |
| Q1B13SV2214A/JB | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| Q1T22B016-B | Control Penetration | General Electric | 100 Series | CTMT | >115'-0" |
| 1VEL5145D | Control Cable | | | CTMT | >115'-0" |
| 1VEL5145E | Control Cable | | | CTMT | >115'-0" |
| ALT025 | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| Q1B13SV2212B-B/JB | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| 1VEL5146D | Control Cable | | | CTMT | >115'-0" |
| 1VEL5146E | Control Cable | | | CTMT | >115'-0" |
| Q1B13SV2214B-B/JB | Terminal Block | Stages | Type XMM | CTMT | >115'-0" |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

MASTER LIST

0000026

△ New Sheet
Section 4
Sheet. 3

Joseph M. Farley Nuclear Plant Unit 1

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13/B31 Pressurizer Safety Valve Position Indication NUREG-0737, II.D.3

| COMPONENTS | | | | | |
|--------------------|---------------------|------------------|------------|----------|----------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLDG | LEV. |
| 1VYCH174A | Cable | | | GMT | >115'-0" |
| Q1B130001-B | Terminal Box | States Company | Type FWM | GMT | >115'-0" |
| 1VBL3099Q | Cable | | | GMT | >115'-0" |
| 1VBL3099H | Cable | | | GMT | >115'-0" |
| 1VBL3099J | Cable | | | GMT | >115'-0" |
| | | | | | |
| Q1T52B025-B | Cmt. Penet. | General Electric | 100 Series | GMT | >115'-0" |
| Q1T52B022-B | Cmt. Penet. | General Electric | 100 Series | GMT | >115'-0" |
| Q1B132S2034 | Position Switch | NAMCO | EA-180 | GMT | >115'-0" |
| Q1B132S2035 | Position Switch | NAMCO | EA-180 | GMT | >115'-0" |
| Q1B132S2036 | Position Switch | NAMCO | EA-180 | GMT | >115'-0" |
| | | | | | |
| | | | | | |
| N1B312S0444B | Limit Switch | NAMCO | EA-180 | GMT | >115'-0" |
| | | | | | |
| | | | | | |
| N1B312S0445A | Limit Switch | NAMCO | EA-180 | GMT | >115'-0" |
| N1B31SV0444EA-B/JB | Junction Box | States Company | Type FWM | GMT | >115'-0" |
| N1B31SV0445AA-A/JB | Junction Box | States Company | Type FWM | GMT | >115'-0" |
| Q1T52B007A | Control Penetration | General Electric | 100 Series | GMT | >115'-0" |
| 1VYCH174A | Cable | | | GMT | >115'-0" |
| Q1T52B012-1 | Control Penet. | General Electric | 100 Series | GMT | >115'-0" |
| Q1T52B012-2 | Control Penet. | General Electric | 100 Series | GMT | >115'-0" |
| 1VBL3035D | Control Cable | | | GMT | >115'-0" |
| 1VBL3035D | Control Cable | | | GMT | >115'-0" |

U 2 4 4 5 / 4 4

MASTER LIST

0060327

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.2
Sheet 2

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT SYSTEM - STEAM GENERATOR

B-21

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-----------------|--------------------|------------------|------------|----------|---------|
| | | | | BLOC | ELEV. |
| N1B21PT402 | Press. Transmitter | Barton | 763 | CTMT | 129' |
| N1B21PT403 | Press. Transmitter | Barton | 763 | CTMT | 129' |
| N1B21TE410 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N1B21TE413 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N1B21TE420 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N1B21TE423 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N1B21TE430 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N1B21TE433 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| Q1T52B012 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B030 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B040 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 11TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 11TB003 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 11TB004 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 21TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 21TB002 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 21TB005 | Terminal Block | States Co. | Type ZWM | CTMT | 2115' |
| 1VYV5031B | Instr. Cables | | | CTMT | 2115' |
| 1VYV5032B | Instr. Cables | | | CTMT | 2115' |
| 1V1V5002E.F.G | Instr. Cables | | | CTMT | 2115' |
| 1V2V5002E.F.G | Instr. Cables | | | CTMT | 2115' |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

MASTER LIST

0060328

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.3

Sheet 2

ICLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT SYSTEM - PRESSURIZER

B-31

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-------------------------|----------------------|------------------|------------|----------|---------|
| | | | | EL. 00 | EL. 01 |
| Q1B31SV8047 (MV8047) | Solenoid Valve | ABCO | MF831634V | CTMT | 118'-0" |
| N1B31SV8047 (MV8047) | Limit Switch | WAMCO | EA-180 | CTMT | 118'-0" |
| Q1T52B022 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T52B038 | Penetration | General Electric | 100 Series | CTMT | 143' |
| N1B31SV8047-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | >115' |
| Q1B31LT459 | Level Transmitter | Barton | 764 | CTMT | 132' |
| Q1B31LT460 | Level Transmitter | Barton | 764 | CTMT | 132' |
| Q1B31LT461 | Level Transmitter | Barton | 764 | CTMT | 132' |
| Q1B31PT455 | Pressure Transmitter | Foxboro | E11GM(MCA) | CTMT | 166'-6" |
| Q1B31PT456 | Pressure Transmitter | Foxboro | E11GM(MCA) | CTMT | 166'-6" |
| Q1B31PT457 | Pressure Transmitter | Foxboro | E11GM(MCA) | CTMT | 166'-6" |
| 1VBL5078C | Control Cable | | | CTMT | >115' |
| 1VBQ5021E | Control Cable | | | CTMT | >115' |
| Q1T52B012 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T52B028 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T52B030 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T52B040 | Penetration | General Electric | 100 Series | CTMT | 143' |
| 1VYV5031D | Instr. Cable | | | CTMT | >115' |
| 1V1V5002U | Instr. Cable | | | CTMT | >115' |
| 1V2V5002T,U | Instr. Cables | | | CTMT | >115' |
| 1V3V5002T, U | Instr. Cables | | | CTMT | >115' |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

△ New Sheet
Location 060629
Sheet 6

CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT COND. (1) (1)

SYSTEM: B31 - Pressurizer Relief and Safety Valves NUREG-0737, II.D.1

[illegible]

U2935 • 141

MASTER LIST

0060830

Joseph M. Farley Nuclear Plant Unit 1Section C-2.4
Sheet 7

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FEEDWATER CONTROL SYSTEM

C-22

| PLANT ID NUMBER | GENERAL NAME | MANUFACTURER | MODEL | LOCATION | |
|-----------------|-------------------|------------------|------------|--------------|--------|
| | | | | Bldg. | Elev. |
| 1VAL5061C | Control Cable | | | Mn. Sm. Room | 2 131' |
| 1VBL5034C, D | Control Cables | | | Mn. Sm. Room | 2 131' |
| 1VXL5072B | Control Cable | | | Mn. Sm. Room | 2 131' |
| 1VAL5062B | Control Cable | | | Mn. Sm. Room | 2 131' |
| 1VBL5033B, D | Control Cables | | | Mn. Sm. Room | 2 131' |
| 1VXL5073A | Control Cable | | | Mn. Sm. Room | 2 131' |
| Q1C22LT474 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT475 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT476 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT484 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT485 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT486 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT494 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT495 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22LT496 | Level Transmitter | Barton | 764 | CTMT | 159' |
| Q1C22FT474 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1C22FT475 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1C22FT484 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1C22FT485 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1C22FT494 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1C22FT495 | Flow Transmitter | Foxboro | E13DM | CTMT | 180' |
| Q1T32B010 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T32B012 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T32B028 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T32B030 | Penetration | General Electric | 100 Series | CTMT | 143' |

MASTER LIST

Joseph M. Farley Nuclear Plants Unit 1

0000631

Section C.2.4

Sheet 8

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: FRESHWATER CONTROL SYSTEM

C-22

[illegible]

Joseph M. Farley Nuclear Plant Unit 1

0060632

New Street
Section C.2.4
Sheet 9

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: FEEDWATER CONTROL SYSTEM

C-22

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|--------------------------|----------------|--------------|---------------|-----------------|--------|
| | | | | BLOC | ELEV. |
| N1C222S0478 (FCV478) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0478A (FCV478) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C22SV0478B (FCV478) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C222S0488 (FCV488) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0488A (FCV488) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C22SV0488B (FCV488) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C222S0498 (FCV498) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0498A (FCV498) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C22SV0498B (FCV498) | Solenoid Valve | ASCO | HT8300B58RU | Mn. Stm Room | N 131' |
| N1C222S0479 (FCV479) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0479A (FCV479) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | 130' |
| N1C22SV0479B (FCV479) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | 130' |
| N1C222S0489 (FCV489) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0489A (FCV489) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | N 131' |
| N1C22SV0489B (FCV489) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | N 131' |
| N1C222S0499 (FCV499) | Limit Switch | NAMCO | EA-170 | Mn. Stm Room | N 131' |
| N1C22SV0499A (FCV499) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | N 131' |
| N1C22SV0499B (FCV499) | Solenoid Valve | ASCO | HV-202-301-3U | Mn. Stm Room | N 131' |
| N1C22SV0478A-A/JB | Terminal Block | States Co. | Type ZWM | Mn. Stm Room | N 131' |
| N1C22SV0488A-A/JB | Terminal Block | States Co. | Type ZWM | Mn. Stm Room | N 131' |
| N1C22SV0498A-A/JB | Terminal Block | States Co. | Type ZWM | Mn. Stm Room | N 131' |
| 2'X12608 | Control Cable | | | Mn. Stm Room | N 131' |
| 2'X12013 | Control Cable | | | Mn. Stm Room | N 131' |
| 2'X12011A | Control Cable | | | Mn. Stm Room | N 131' |

0060633

△ New Sheet
Section 5
Sheet 10

SYSTEM: B21 - High Range Containment Radiation MUREG-0737, II.F.1.3

[illegible]

u2y3 1/51

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

0060035
Section C.2.6
Sheet 12

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)
SYSTEM: CONTAINMENT COOLING AND PURGE

E-12, E-14, P-13

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|------------------------|-------------------------------|------------------|------------|----------|---------|
| | | | | ELEV. | ELEV. |
| Q1E14V002 (MOV3660) | 1" Motor Operated Globe Valve | Lamitorque | EME-000 | CTMT | 134'-6" |
| Q1E14V004 (MOV3318B) | 1" Motor Operated Globe Valve | Lamitorque | EME-000 | CTMT | 116'-0" |
| Q1P13ZS3196 (HV3196) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q1P13SV2867D (HV2867) | Solenoid Valve | ASCO | NP831654V | CTMT | 129'-0" |
| Q1P13ZS2867B (HV2867) | Limit Switch | NAMCO | EA-740 | CTMT | 129'-0" |
| Q1P13ZS3197 (HV3197) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q1P13SV2866B (HV2866) | Solenoid Valve | ASCO | NP831654V | CTMT | 129'-0" |
| Q1P13ZS2866D (HV2866) | Limit Switch | NAMCO | EA-740 | CTMT | 129'-0" |
| Q1E12SV3999A (HV3999A) | Solenoid Valve | ASCO | NP8316A74E | CTMT | <105' |
| Q1E12ZS3999A (HV3999A) | Limit Switch | NAMCO | EA-180 | CTMT | <105' |
| Q1E12SV3999B (HV3999B) | Solenoid Valve | ASCO | NP8316A74E | CTMT | <105' |
| Q1E12ZS3999B (HV3999B) | Limit Switch | NAMCO | EA-180 | CTMT | <105' |
| Q1E12M001A (H001A) | CTMT Clr. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q1E12M001B (H001B) | CTMT Clr. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q1E12M001C (H001C) | CTMT Clr. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q1E12M001D (H001D) | CTMT Clr. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q1T52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B002 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B006 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B041 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |

MASTER LIST

0080036

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.6
Sheet 13

CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE

E-12, E-14, P-13

| COMPONENTS | | | | | |
|-------------------|------------------|------------------|------------|----------|--------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLOK | ELEV. |
| Q1P13SV3196-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | > 115' |
| Q1T52B022 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1P13SV2867B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | > 115' |
| Q1P13SV3197-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | > 115' |
| Q1P13SV2866B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | > 115' |
| Q1E12SV3999A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | < 115' |
| Q1T52B025 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1E12SV3999B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | < 115' |
| Q1T52B001 | Penetration | General Electric | 100 Series | CTMT | 143' |
| Q1T52B023 | Penetration | General Electric | 100 Series | CTMT | 143' |
| 1VAFU-R5Q | Power Cable | | | CTMT | > 115' |
| 1VAFU-R5D | Control Cable | | | CTMT | > 115' |
| 1VAQ5048F | Control Cable | | | CTMT | > 115' |
| 1VXR5005H | Control Cable | | | CTMT | > 115' |
| 1VAFU-J4Q | Power Cable | | | CTMT | > 115' |
| 1VAFU-J4D | Control Cable | | | CTMT | > 115' |
| 1VAQ5009C | Control Cable | | | CTMT | > 115' |
| 1VXR5066B | Instrument Cable | | | CTMT | > 115' |
| 1VBL5008C,D,K,L | Control Cables | | | CTMT | > 115' |
| 1VBQ5010J | Control Cable | | | CTMT | > 115' |
| 1VXR5035D | Control Cable | | | CTMT | > 115' |
| 1VBL5008X, W | Control Cables | | | CTMT | > 115' |
| 1VBQ5012Y | Control Cable | | | CTMT | > 115' |
| 1VXR5035F | Control Cable | | | CTMT | > 115' |
| 1VAL5122C | Control Cable | | | CTMT | > 115' |

02993-1754

Sheet 14

F-12 F-14 P-19

GPO : 1974 O-611-611

Section C.2.7
Sheet 15

SYSTEM: HYDROGEN RECOMBINER SYSTEM

E-17

[illegible]

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.8
Sheet 16

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT POST LOCA AIR TREATMENT SYSTEM

E-19

[illegible]

02993 1757

MASTER LIST

0000040

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.9
Sheet 17

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL / SAFETY INJECTION

E-21

| COMPONENTS | | | | | |
|----------------------------|----------------------------------|---------------------|-------------|----------|-----------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLOK. | ELEV. |
| Q1E21V038A (MOV8808A) | 12" Motor Operated Gate Valve | Limitex | EME-6 | CTMT | 111'-6" |
| Q1E21V038B (MOV8808B) | 12" Motor Operated Gate Valve | Limitex | EME-6 | CTMT | 112'-6" |
| Q1E21V038C (MOV8808C) | 12" Motor Operated Gate Valve | Limitex | EME-6 | CTMT | 113'-6" |
| Q1E21SV8871 (MV8871) | Solenoid Valve | ASCO | NP821654V | CTMT | 120'-0" |
| Q1E21Z8871 (MV8871) | Limit Switch | NAMCO | EA-180 | CTMT | 120'-0" |
| Q1E21V249A (MOV8112) | 3" Motor Operated Gate Valve | Limitex | EME-00 | CTMT | 123' |
| N1E21Z88149A (MV8149A) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q1E21SV8149AB (MV8149A) | Solenoid Valve | ASCO | 206-381-6RF | CTMT | 111'-0" |
| N1E21Z88149B (MV8149B) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q1E21SV8149BB (MV8149B) | Solenoid Valve | ASCO | 206-381-6RF | CTMT | 111'-0" |
| N1E21Z88149C (MV8149C) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q1E21SV8149CB (MV8149C) | Solenoid Valve | ASCO | 206-381-6RF | CTMT | 111'-0" |
| Q1T52B002 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B006 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B018 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| N1E21SV8871-A/JL | Terminal Block | Staco Co. | Type ZWM | CTMT | > 116'-0" |
| Q1E21Z88808AB | Limit Switch | NAMCO | EA-180 | CTMT | 111'-6" |
| Q1E21Z88808BB | Limit Switch | NAMCO | EA-180 | CTMT | 112'-6" |
| Q1E21Z88808CB | Limit Switch | NAMCO | EA-180 | CTMT | 113'-6" |
| Q1T52B014 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| N1E21SV8149AA-A/JB | Terminal Block | Staco Co. | Type ZWM | CTMT | 2116'-0" |
| N1E21SV8149BA-A/JB | Terminal Block | Staco Co. | Type ZWM | CTMT | 2116'-0" |

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.9
Sheet 18

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION E-21[illegible]

02993 1759

0000642

Section C.2.10
Sheet 19

SYSTEM: REACTOR CAVITY POST LOCA DILUTION SYSTEM

Y-22

GPD-1374 Rev. 6/83

02993 1760

0000043

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1Section C.2.11
Sheet 20

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL

E-23

| COMPONENTS | | | | | |
|-----------------------|---------------------------------|------------------|------------|----------|----------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLDG. | ELEV. |
| Q1E23V021 (MOV3536) | 2" Motor Operated Gate Valve | Limitorgue | SPB-00 | CTMT | 116'-6" |
| Q1E23V003 (MOV3530) | 6" Motor Operated Gate Valve | Limitorgue | SPB-00 | CTMT | 120'-6" |
| Q1E23V022A (MOV3528A) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 126'-6" |
| Q1E23V022B (MOV3528B) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 126'-6" |
| Q1E23V022C (MOV3528C) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 126'-6" |
| Q1E23V022D (MOV3528D) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 126'-6" |
| Q1E23V025A (MOV3835A) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 1'-6'-6" |
| Q1E23V025B (MOV3835B) | 3/4" Motor Operated Globe Valve | Limitorgue | SPB-000 | CTMT | 1'-6'-6" |
| Q1T52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B017 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B015 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 1VAFU-W4Q | Power Cable | | | CTMT | >115' |
| 1VBFV-N2Q | Power Cable | | | CTMT | >115' |
| 1VAFU-W4C | Control Cable | | | CTMT | >115' |
| 1VAEDQ6E | Control Cable | | | CTMT | >115' |
| 1VBFV-N2C | Control Cable | | | CTMT | >115' |
| 1VBEEQ9E | Control Cable | | | CTMT | >115' |
| 1VBFV-Y4Q | Power Cable | | | CTMT | >115' |
| 1VBFV-Y4C | Control Cable | | | CTMT | >115' |
| 1VBFV-Y4Q | Power Cable | | | CTMT | >115' |

02993 1761

0062644

Section C.2.11
Sheet 24

SYSTEM:

[illegible]

02993 1/62

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.12
Sheet 22

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: LIQUID WASTE DISPOSAL SYSTEM G-21

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|---------------------------|------------------|------------------|-------------|----------|---------|
| | | | | BLDG. | ELEV. |
| Q1G21SV3376 (HV3376) | Solenoid Valve | ASCO | NP8316A74V | CTMT | 109'-0" |
| Q1G212S3376 (HV3376) | Limit Switch | NAMCO | EA-180 | CTMT | 109'-0" |
| N1G212S1003B (LCV1003) | Limit Switch | NAMCO | EA-180 | CTMT | 110'-0" |
| N1G21SV1003B (LCV1003) | Solenoid Valve | ASCO | 206-381-6RF | CTMT | 110'-0" |
| Q1G21SV7126 (HV7126) | Solenoid Valve | ASCO | NP831634V | CTMT | 117'-0" |
| Q1G212S7126 (HV7126) | Limit Switch | NAMCO | EA-180 | CTMT | 117'-0" |
| Q1T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B041 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1G21SV3376-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 116'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| N1G21SV1003A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 116'-0" |
| N1G21SV7126-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 116'-0" |
| 1VBL5045C | Control Cable | | | CTMT | > 115' |
| 1VB05030J | Control Cable | | | CTMT | > 115' |
| 1VYR5066G | Instrument Cable | | | CTMT | > 115' |
| 1VAL5037D | Control Cable | | | CTMT | > 115' |
| 1VAQ5021J | Control Cable | | | CTMT | > 115' |
| 1VAL5036C | Control Cable | | | CTMT | > 115' |
| 1VAQ5020J | Control Cable | | | CTMT | > 115' |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

0060645

029931163

△ New Sheet
Section 7
Sheet 23

(CCLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: C-21 - Liquid Waste Disposal
NUREG-0737, II.F.1.5

6060646

029931164

MASTER LIST

0060647

Joseph M. Farley Nuclear Plant Unit 1Section C.2.13
Sheet 24

(CLASSIE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: MAIN STEAM

N-11

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|----------------------------|----------------|--------------|------------|------------------|-------|
| | | | | BLDG. | ELEV. |
| Q1N11ZS3369A (HV3369A) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3369AC (HV3369A) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3369B (HV3369B) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3369BC (HV3369B) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3369C (HV3369C) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3369CC (HV3369C) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3370A (HV3370A) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3370AC (HV3370A) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3370B (HV3370B) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3370BC (HV3370B) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3370C (HV3370C) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | 128' |
| Q1N11SV3370CC (HV3370C) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3368A (HV3368A) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3368AA (HV3368A) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3368B (HV3368B) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3368BA (HV3368B) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3368C (HV3368C) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3368CA (HV3368C) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11SV3976A (HV3976A) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3976A (HV3976A) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3976B (HV3976B) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3976B (HV3976B) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3976C (HV3976C) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm. Room | ≥131' |
| Q1N11ZS3976C (HV3976C) | Limit Switch | NAMCO | EA-180 | Mn. Stm. Room | ≥131' |
| Q1N11SV3369AA-A/JR | Terminal Block | States Co. | Type 2WM | Mn. Stm. Room | ≥131' |

02993 1765

0060648

Section C.2.13
Sheet 25

SYSTEM: MAIN STEAM W-11

[illegible]

02993 1766

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

0060049
Section C, 2.14
Sheet 15

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY STEAM

N-12

| COMPONENTS | | | | |
|---------------------------|-------------------|--------------|-------------|-------------------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION |
| | | | | BLOG ELEV. |
| Q1N12SV3234A (HV3234A) | Solenoid Valve | ASCO | NP8320A186V | MN. STM ROOM 131' |
| Q1N12SV3234A (HV3434A) | Limit Switch | NAMCO | EA-180 | MN. STM ROOM 131' |
| Q1N12SV3234B (HV3234B) | Solenoid Valve | ASCO | NP8320A186V | MN. STM ROOM 131' |
| Q1N12SV3234B (HV3234B) | Limit Switch | NAMCO | EA-180 | MN. STM ROOM 131' |
| Q1N12SV3235A (HV3235A) | Solenoid Valve | ASCO | NP8321A2V | MN. STM ROOM 131' |
| Q1N12SV3235A (HV3235A) | Limit Switch | NAMCO | EA-180 | MN. STM ROOM 131' |
| Q1N12SV3235B (HV3235B) | Solenoid Valve | ASCO | NP8321A2V | MN. STM ROOM 131' |
| Q1N12SV3235B (HV3235B) | Limit Switch | NAMCO | EA-180 | MN. STM ROOM 131' |
| Q1N12SV3234A-A/JB | Terminal Block | States Co. | Type ZWM | MN. STM ROOM 131' |
| Q1N12SV3234B-B/JB | Terminal Block | States Co. | Type ZWM | MN. STM ROOM 131' |
| Q1N12SV3235A-A/JB | Terminal Block | States Co. | Type ZWM | MN. STM ROOM 131' |
| Q1N12SV3235B-B/JB | Terminal Block | States Co. | Type ZWM | MN. STM ROOM 131' |
| 1VAL5002B | Control Cable | | | MN. STM ROOM 131' |
| 1VAQ5011A | Control Cable | | | MN. STM ROOM 131' |
| 1VXR5007F | Control Cable | | | MN. STM ROOM 131' |
| 1VBL5007B | Control Cable | | | MN. STM ROOM 131' |
| 1VBQ5013B | Control Cable | | | MN. STM ROOM 131' |
| 1VYR5033E | Control Cable | | | MN. STM ROOM 131' |
| 1VAL5004C | Control Cable | | | MN. STM ROOM 131' |
| 1VAQ5010D | Control Cable | | | MN. STM ROOM 131' |
| 1VNR5003A,B * | Instrument Cables | | | MN. STM ROOM 131' |
| 1VBL5005C | Control Cable | | | MN. STM ROOM 131' |
| 1VBQ5011B | Control Cable | | | MN. STM ROOM 131' |
| 1VXR5183C,D,G,H | Control Cables | | | MN. STM ROOM 131' |

OPD-1374 Rev. 8/81

* Was 1VYR5064A & B

029931/67

CC60650

Section C.2.13
Sheet 27

SYSTEM: MAIN FEEDWATER AND CONDENSATE

M-21

QPD-1374 Rev. 6/81

02993 1768

MASTER LIST

0060651

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.16
Sheet 28

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER

N-23

| COMPONENTS | | | | | |
|----------------------------|--|--------------|-------------|-----------------|--------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLDG. | ELEV. |
| Q1N23V011A (MOV3330A) | 4" Motor Operated Stop-Check Globe VI | Limitorque | SMB-1 | Mn. Stm Room | W 131' |
| Q1N23V011B (MOV3330B) | 4" Motor Operated Stop-Check Globe VI | Limitorque | SMB-1 | Mn. Stm Room | W 131' |
| Q1N23V011C (MOV3330C) | 4" Motor Operated Stop-Check Globe VI | Limitorque | SMB-1 | Mn. Stm Room | W 131' |
| Q1N23SV3228A (HV3228A) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3228AA (HV3228A) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3228B (HV3228B) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3228BA (HV3228B) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3228C (HV3228C) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3228CA (HV3228C) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3227A (HV3227A) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3227AA (HV3227A) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3227B (HV3227B) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3227BA (HV3227B) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3227C (HV3227C) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | W 131' |
| Q1N23SV3227CA (HV3227C) | Solenoid Valve | ASCO | NP8320A196E | Mn. Stm Room | W 131' |
| Q1N23SV3228AA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| Q1N23SV3228BA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| Q1N23SV3228CA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| Q1N23SV3227AA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| Q1N23SV3227BA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| Q1N23SV3227CA-A/JB | Terminal Block | States Co. | Type ZHM | Mn. Stm Room | W 131' |
| 1VAFU-U-Q | Power Cable | | | Mn. Stm Room | W 131' |
| 1VAFU-U3Q | Power Cable | | | Mn. Stm Room | W 131' |
| 1VAFU-T2Q | Power Cable | | | Mn. Stm Room | W 131' |
| 1VAFU-U4A, D | Control Cables | | | Mn. Stm Room | W 131' |

02993 1769

MASTER LIST

0060652

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.16

Sheet 29

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER

N-23

| COMPONENTS | | | | | |
|-----------------|------------------|--------------|-------|--------------|--------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLDG. | ELEV. |
| 1VAFU-USA, D | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAFU-I2A, D | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAL5007B | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5008B | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5009B | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5007C | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5008C | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5009C | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5010E, K | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5012E, K | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5014E, K | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VXR5007K, L, M | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAL5013C | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5014C | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5015C | Control Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5013D | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5014D | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAL5015D | Instrument Cable | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5048H, K | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5006C, H | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VAQ5008C, H | Control Cables | | | Mn. Stm Room | ≥ 131' |
| 1VXR5007G, H, J | Control Cables | | | Mn. Stm Room | ≥ 131' |
| | | | | | |
| | | | | | |
| | | | | | |

029931770

0060653
Section C.2.17
Sheet 20

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.17
Sheet 30

(CCLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL INJECTION SYSTEM

N-25

[illegible]

029930171

MASTER LIST

0060654

Joseph M. Farley Nuclear Plant Unit 1Section G, 2.18
Sheet 31

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM

P-13

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|---------------------------|----------------|--------------|-------------|----------|---------|
| | | | | BLDG. | ELEV. |
| QIP15SV3103 (HV3103) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3103 (HV3103) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3765 (HV3765) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3765 (HV3765) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3766 (HV3766) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3766 (HV3766) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3179A (HV3179A) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3179A (HV3179A) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3179B (HV3179B) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3179B (HV3179B) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3179C (HV3179C) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3179C (HV3179C) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3180A (HV3180A) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3180A (HV3180A) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3180B (HV3180B) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3180B (HV3180B) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3180C (HV3180C) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3180C (HV3180C) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3181A (HV3181A) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3181A (HV3181A) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3181B (HV3181B) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3181B (HV3181B) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3181C (HV3181C) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |
| QIP15ZS3181C (HV3181C) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| QIP15SV3184 (HV3184) | Solenoid Valve | ASCO | NP8320A184V | CTMT | 129'-0" |

MASTER LIST

0060655

Joseph M. Farley Nuclear Plant Unit 1Section C.2.18
Sheet 32

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM

P-15

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-------------------------|----------------|------------------|------------|----------|---------|
| | | | | BLDG. | ELEV. |
| Q1P152S3104 (HV2104) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 149'-0" |
| Q1P13SV3101-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3265-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1P13SV3266-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3179A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3179B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3179C-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1P13SV3180A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3180B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3180C-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV2181A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3181B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3181C-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| Q1P13SV3104-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 131'-9" |
| 1VAL3063B | Control Cable | | | CTMT | >115' |
| 1VAQ3049H | Control Cable | | | CTMT | >115' |
| 1VXR3010B | Control Cable | | | CTMT | >115' |
| 1VAL3063B | Control Cable | | | CTMT | >115' |
| 1VAQ3032J | Control Cable | | | CTMT | >115' |
| 1VXR3010F | Control Cable | | | CTMT | >115' |
| 1VAL3066A | Control Cable | | | CTMT | >115' |
| 1VAQ3033J | Control Cable | | | CTMT | >115' |

02993 1173

0000356

Section C.2.18
Sheet 33

SYSTEM: SAMPLING SYSTEM

P-15

[illegible]

0299301774

MASTER LIST

0060657

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.19
Sheet 34

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SERVICE WATER

P-16

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|--------------------------|----------------------------------|---------------------|------------|----------|---------|
| | | | | BLOC | ELEV. |
| QIP16V207A (MOV3441A) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-6" |
| QIP16V207B (MOV3441B) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-6" |
| QIP16V207C (MOV3441C) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 122'-6" |
| QIP16V207D (MOV3441D) | 10" Motor Operated Gate Valve | Lim'torque | SMB-00 | CTMT | 122'-6" |
| QIP16V081 (MOV3131) | 6" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-6" |
| QIT52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| QIT52B013 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| QIT52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| QIT52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| QIT52B014 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| QIT52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 1VBVJ-J4Q | Power Cable | | | CTMT | > 115' |
| 1VBVJ-J4D | Control Cable | | | CTMT | > 115' |
| 1VBQ5007D | Control Cable | | | CTMT | > 115' |
| 1VXR4006B,D | Control Cables | | | CTMT | > 115' |
| 1VXKB164B,C | Control Cables | | | CTMT | > 115' |
| 1VBVJ-J3Q | Power Cable | | | CTMT | > 115' |
| 1VBVJ-J3D | Control Cable | | | CTMT | > 115' |
| 1VBQ5009D | Control Cable | | | CTMT | > 115' |
| 1VAFU-K6Q | Power Cable | | | CTMT | > 115' |
| 1VAFU-K6D | Control Cable | | | CTMT | > 115' |
| 1VQ5007D | Control Cable | | | CTMT | > 115' |
| 1VXR5006B,D,F | Control Cables | | | CTMT | > 115' |
| 1VXKB164B,C | Control Cables | | | CTMT | > 115' |
| 1VAFU-W2Q | Power Cable | | | CTMT | > 115' |

02993 1775

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1

Section C.2.19
Sheet 35

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SERVICE WATER

P. 6

[illegible]

02993 1776

0060659

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 1Section C.2.20
Sheet 36

(CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: COMPONENT COOLING WATER

P-17

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-------------------------|------------------------------|------------------|------------|----------|-----------|
| | | | | BLOK. | ELEV. |
| Q1P17V097 (MOV3046) | 6" Motor Operated Gate Valve | Limitoreus | SMB-00 | CTMT | 130'-6" |
| Q1P17SV3184 (HV3184) | Solenoid Valve | ASCO | NPS316A74V | CTMT | 122'-6" |
| Q1P17ZS3184 (HV3184) | Limit Switch | NAMCO | EA-180 | CTMT | 122'-6" |
| Q1P17SV3443 (HV3443) | Solenoid Valve | ASCO | NPS316A74V | CTMT | 129'-0" |
| Q1P17ZS3443 (HV3443) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q1T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1P17SV3184-B/JB | Terminal Block | States Co. | Type ZWH | CTMT | > 115'-0" |
| Q1T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1T52B041 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q1P17SV3443-A/JB | Terminal Block | States Co. | Type ZWH | CTMT | > 115'-0" |
| 1VBFBV-C3Q | Power Cable | | | CTMT | > 115' |
| 1VBFBV-C3D | Control Cable | | | CTMT | > 115' |
| 1VBQ5017C | Control Cable | | | CTMT | > 115' |
| 1VVR5006F | Control Cable | | | CTMT | > 115' |
| 1VBL5009C,D,E,F | Control Cables | | | CTMT | > 115' |
| 1VBQ5017H | Control Cable | | | CTMT | > 115' |
| 1VVR5033B | Control Cable | | | CTMT | > 115' |
| 1VAL5055C | Control Cable | | | CTMT | > 115' |
| 1VAO5029H | Control Cable | | | CTMT | > 115' |
| 1VVR5064F | Control Cable | | | CTMT | > 115' |
| | | | | | |
| | | | | | |
| | | | | | |

02993 1177

0060660

APPENDIX II

MASTER LIST OF ENVIRONMENTAL QUALIFIED EQUIPMENT
UNIT C

02993 1778

LIST OF EFFECTIVE PAGES

0060661

| PAGE NO. | REVISION NO. | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|---|---|---|----|----|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | X | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | |
| 18 | X | | | | | | | | | | | |
| 19 | X | | | | | | | | | | | |
| 20 | X | | | | | | | | | | | |
| 21 | X | | | | | | | | | | | |
| 22 | X | | | | | | | | | | | |
| 23 | X | | | | | | | | | | | |
| 24 | X | | | | | | | | | | | |
| 25 | X | | | | | | | | | | | |

029931779

(Faint, illegible text)

[illegible]

0299301/80

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.1

Sheet 1

0060663

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: REACTOR COOLANT INSTRUMENTATION

B-13

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------|----------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| N2B13TE412B | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| N2B13TE412D | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| N2B13TE422B | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| N2B13TE422D | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| N2B13TE432B | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| N2B13TE432D | RTD | Rosemount | 176KF | CTMT | 124'-0" |
| Q2T52B012 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B028 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B030 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 12TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 12TB002 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 22TB003 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 22TB004 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 32TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 32TB002 | Terminal Block | States Co. | Type ZWM | CTMT | 124'-0" |
| 2V1V5002B, D | Instr. Cables | | | CTMT | 124'-0" |
| 2V2V5002B, D | Instr. Cables | | | CTMT | 124'-0" |
| 2V3V5002B, D | Instr. Cables | | | CTMT | 124'-0" |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

MASTER LIST

0060664

△ New Sheet
Section 2
Sheet 2

Joseph M. Farley Nuclear Plant Unit 2

(CLASS I ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)
SYSTEM: Reactor Coolant System (Head Vent) NUREG-0737, II.B.1

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-------------------|---------------------|------------------|------------|----------|-----------|
| | | | | BLDG. | ELEV. |
| Q2B13SV2213A | Solenoid Valve | Target | 79AB001 | CTMT | > 115'-0" |
| Q2B13SV2213B | Solenoid Valve | Target | 79AB001 | CTMT | > 115'-0" |
| Q2B13SV2214A | Solenoid Valve | Target | 79AB001 | CTMT | > 115'-0" |
| Q2B13SV2214B | Solenoid Valve | Target | 79AB001 | CTMT | > 115'-0" |
| Q2T52B014-A | Control Penetration | General Electric | 100 Series | CTMT | > 115'-0" |
| 2VAL5145B | Control Cable | | | CTMT | > 115'-0" |
| 2VAL5145C | Control Cable | | | CTMT | > 115'-0" |
| A2TR007 | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| Q2B13SV2213A-A/JB | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| 2VAL5146B | Control Cable | | | CTMT | > 115'-0" |
| 2VAL5146C | Control Cable | | | CTMT | > 115'-0" |
| Q2B13SV2214A/JB | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| Q2T52B016-B | Control Penetration | General Electric | 100 Series | CTMT | > 115'-0" |
| 2VBL5145B | Control Cable | | | CTMT | > 115'-0" |
| 2VBL5145C | Control Cable | | | CTMT | > 115'-0" |
| A2TR025 | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| Q2B13SV2213B-B/JB | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| 2VBL5146B | Control Cable | | | CTMT | > 115'-0" |
| 2VBL5146C | Control Cable | | | CTMT | > 115'-0" |
| Q2B13SV2214B-B/JB | Terminal Block | States | Type ZWM | CTMT | > 115'-0" |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

02993 782

MASTER LIST

0060665

△ New Sheet
Section 4
Sheet 2

Joseph M. Farley Nuclear Plant Unit 2

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: B13/B31 Pressurized Safety Valve Position Indication NUREG-0737, II.D.3

| COMPLIANCE | | | | | |
|--------------------|-----------------|------------------|------------|----------|----------|
| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
| | | | | BLDG. | ELEV. |
| 2VYKH174A | Cable | | | CTMT | >115'-0" |
| Q2B13C001-B | Terminal Box | States Company | Type ZWM | CTMT | >115'-0" |
| 2VBL5099G | Cable | | | CTMT | >115'-0" |
| 2VBL5099H | Cable | | | CTMT | >115'-0" |
| 2VBL5099J | Cable | | | CTMT | >115'-0" |
| | | | | | |
| Q2T52H025-B | Cmt. Penet. | General Electric | 100 Series | CTMT | >115'-0" |
| Q2T52H022-B | Cmt. Penet. | General Electric | 100 Series | CTMT | >115'-0" |
| Q2B13Z52024 | Position switch | NAMCO | EA-180 | CTMT | >115'-0" |
| Q2B13Z52025 | Position switch | NAMCO | EA-180 | CTMT | >115'-0" |
| Q2B13Z52026 | Position switch | NAMCO | EA-180 | CTMT | >115'-0" |
| | | | | | |
| | | | | | |
| N2B31Z50444B | Limit switch | NAMCO | EA-180 | CTMT | >115'-0" |
| | | | | | |
| | | | | | |
| N2B31Z50445A | Limit switch | NAMCO | EA-180 | CTMT | >115'-0" |
| N2B31SV0444BA-B/JB | Junction Box | States Company | Type ZWM | CTMT | >115'-0" |
| N2B31SV0444AA-A/JB | Junction Box | States Company | Type ZWM | CTMT | >115'-0" |
| Q2T52H019-A | Control Penetr. | General Electric | 100 Series | CTMT | >115'-0" |
| Q2T52H038-B | Control Penetr. | General Electric | 100 Series | CTMT | >115'-0" |
| 2VAL5022D | Control Cable | | | CTMT | >115'-0" |
| 2VBL5020D | Control Cable | | | CTMT | >115'-0" |
| QAT352B007A | Control Penetr. | General Electric | 100 Series | CTMT | >115'-0" |
| 1VXKH174A | Cable | | | CTMT | >115'-0" |

02995 1/03

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SYSTEM - STEAM GENERATOR

B-21

0060666

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------|--------------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| N2B21PT402 | Press. Transmitter | Barton | 763 | CTMT | 116'-0" |
| N2B21PT403 | Press. Transmitter | Barton | 763 | CTMT | 116'-0" |
| N2B21TE410 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N2B21TE413 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N2B21TE420 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N2B21TE423 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N2B21TE430 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| N2B21TE433 | RTD | Rosemount | 176KS | CTMT | 122'-9" |
| Q2T52B040 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B012 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B030 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 12TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 12TB003 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 12TB004 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 22TB001 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 22TB002 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 22TB003 | Terminal Block | States Co. | Type ZWM | CTMT | 122'-9" |
| 2VYV5031B | Instr. Cables | | | CTMT | 122'-9" |
| 2VYV5033E | Instr. Cables | | | CTMT | 122'-9" |
| 2V1V5002E, F, G | Instr. Cables | | | CTMT | 122'-9" |
| 2V2V5002E, F, G | Instr. Cables | | | CTMT | 122'-9" |
| | | | | | |
| | | | | | |
| | | | | | |

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SYSTEM - PRESSURIZER

B-31

0060667

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-------------------------|----------------------|------------------|------------|----------|--------------------|
| | | MANUFACTURER | MODEL | ELDG | ELEV |
| Q2B31SV8047 (HV8047) | Solenoid Valve | ASCO | NP831654E | CTMT | 118'-0" |
| N2B31Z8047 (HV8047) | Limit Switch | NAMCO | EA-180 | CTMT | 118'-0" |
| Q2T52B002 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| Q2T52B038 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| N2B31SV8047-B/3B | Terminal Block | States Co. | Type ZWM | CTMT | 118'-0" |
| Q2B31LT459 | Level Transmitter | Barton | 764 | CTMT | 116'-0" |
| Q2B31LT460 | Level Transmitter | Barton | 764 | CTMT | 116'-0" |
| Q2B31LT461 | Level Transmitter | Barton | 764 | CTMT | 116'-0" |
| Q2B31PT455 | Pressure Transmitter | Barton | 763 | CTMT | 116'-0" |
| Q2B31PT456 | Pressure Transmitter | Barton | 763 | CTMT | 116'-0" |
| Q2B31PT457 | Pressure Transmitter | Barton | 763 | CTMT | 116'-0" |
| 2VBL5078C | Control Cable | | | CTMT | 116'-0" |
| 2VBQ5021E | Control Cable | | | CTMT | 6 above 116'-0" |
| Q2T52B012 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| Q2T52B028 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| Q2T52B030 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| Q2T52B040 | Penetration | General Electric | 100 Series | CTMT | 147'-0" |
| 2VYV5031D | Instr. Cable | | | CTMT | 116'-0" |
| 2V1V5002V | Instr. Cable | | | CTMT | 6 above 116'-0" |
| 2V2V5002T, U | Instr. Cables | | | CTMT | 6 above 116'-0" |
| 2V3V5002T, U | Instr. Cables | | | CTMT | 6 above 116'-0" |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

△ New Sheet
Section 3
Sheet 6

~~0050662~~

[illegible]

029931786

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.4
Sheet 7

CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: FREEWATER CONTROL SYSTEM

C-22

0060003

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|--------------------------|----------------|--------------|----------------|---------------|---------|
| | | MANUFACTURER | MODEL | Bldg | ELEV |
| N2C22SV0478 (FCV478) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0478A (FCV478) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0478B (FCV478) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0488 (FCV488) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0488A (FCV488) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0488B (FCV488) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0498 (FCV498) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0498A (FCV498) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0498B (FCV498) | Solenoid Valve | ASCO | HV-206-381-2RU | Aux. Bldg. | 121'-0" |
| N2C22SV0479 (FCV479) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0479A (FCV479) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0479B (FCV479) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0489 (FCV489) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0489A (FCV489) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0489B (FCV489) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0499 (FCV499) | Limit Switch | NAMCO | EA-180 | Aux. Bldg. | 121'-0" |
| N2C22SV0499A (FCV499) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0499B (FCV499) | Solenoid Valve | ASCO | HV-206-381-4U | Aux. Bldg. | 121'-0" |
| N2C22SV0478A-A/JB | Terminal Block | States Co. | Type FVM | Aux. Bldg. | 121'-0" |
| N2C22SV0488A-A/JB | Terminal Block | States Co. | Type FVM | Aux. Bldg. | 121'-0" |
| N2C22SV0498A-A/JB | Terminal Block | States Co. | Type FVM | Aux. Bldg. | 121'-0" |
| 2VAL5060B | Control Cable | | | Aux. Bldg. | 121'-0" |
| 2VXL4025B | Control Cable | | | Aux. Bldg. | 121'-0" |
| 2VXL5071A | Control Cable | | | Aux. Bldg. | 121'-0" |
| | | | | Aux. Bldg. | 121'-0" |

ICLASS IF ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS!

SYSTEM FEEDWATER CONTROL SYSTEM

C-22

0250370

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------|-------------------|---------------------|------------|---------------|---------|
| | | MANUFACTURER | MODEL | Bldg. | ELEV. |
| 2VAL5061C | Control Cable | | | Aux. Bldg. | 121'-0" |
| 2VBL5034C, D | Control Cables | | | Aux. Bldg. | 121'-0" |
| 2VXL5072B | Control Cable | | | Aux. Bldg. | 121'-0" |
| 2VAL5062B | Control Cable | | | Aux. Bldg. | 121'-0" |
| 2VBL5035B, D | Control Cables | | | Aux. Bldg. | 121'-0" |
| 2VXL5073A | Control Cable | | | Aux. Bldg. | 121'-0" |
| Q2C22LT474 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT475 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT476 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT484 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT485 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT486 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT494 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT495 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22LT496 | Level Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT474 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT475 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT484 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT485 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT494 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2C22FT495 | Flow Transmitter | Barton | 764 | CTMT | 121'-0" |
| Q2T52B010 | Penetration | General Electric | 100 Series | CTMT | 121'-0" |
| Q2T52B012 | Penetration | General Electric | 100 Series | CTMT | 121'-0" |
| Q2T52B028 | Penetration | General Electric | 100 Series | CTMT | 121'-0" |
| Q2T52B030 | Penetration | General Electric | 100 Series | CTMT | 121'-0" |

MASTER LIST

Section C.2.4


Snowy _____ 9

C-22

6060371

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

0060672  New Sheet
Section 5
Sheet 12

CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS:
SYSTEM: D21 - High Range Containment Radiation; NUREG-0737, II.F.1.3

[illegible][illegible]

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

△ New Sheet
Section 7
Sheet 11

0060673

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)
SYSTEM: G-21 Liquid Waste Disposal (Narrow Range Concentrations Every Level); NUREG-0737
11.1.1.5

[illegible]

ICLAMS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

ITEM CONTINGENT COOLING AND PURGE

E-12, E-14, F-13

0060675

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|---------------------------|----------------------------------|------------------|------------|----------|---------|
| | | | | BLDG | ELEV |
| Q2E14V002 (MOV3660) | 1" Motor Operated Globe Valve | Limitorse | EM-000 | CTMT | 134'-6" |
| Q2E14V004 (MOV33125) | 1" Motor Operated Globe Valve | Limitorse | EM-000 | CTMT | 116'-0" |
| DELETED - | | | | | |
| Q2P13253196 (MV3196) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q2P132538678 (MV2867) | Solenoid Valve | ASCO | NPB31654V | CTMT | 129'-0" |
| Q2P132528670 (MV2867) | Limit Switch | NAMCO | EA-740 | CTMT | 129'-0" |
| DELETED - | | | | | |
| Q2P13253197 (MV3197) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q2P132538668 (MV2866) | Solenoid Valve | ASCO | NPB31654V | CTMT | 129'-0" |
| Q2P132528660 (MV2866) | Limit Switch | NAMCO | EA-740 | CTMT | 129'-0" |
| Q2E12253999A (MV3999A) | Solenoid Valve | ASCO | NPB316A74E | CTMT | 89'-4" |
| Q2E12253999A (MV3999A) | Limit Switch | NAMCO | EA-180 | CTMT | 89'-4" |
| Q2E12253999B (MV3999B) | Solenoid Valve | ASCO | NPB316A74E | CTMT | 91'-4" |
| Q2E12253999B (MV3999B) | Limit Switch | NAMCO | EA-180 | CTMT | 91'-4" |
| Q2E12H001A (H001A) | CTMT Cir. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q2E12H001B (H001B) | CTMT Cir. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q2E12H001C (H001C) | CTMT Cir. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q2E12H001D (H001D) | CTMT Cir. Fan Motor | Joy Mfg. Co. | Type P | CTMT | 155'-0" |
| Q2T52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B002 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B006 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B041 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |

029031793

MASTER LIST

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.6
Sheet 14

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CONTAINMENT COOLING AND PURGE

E-12, E-14, E-13

0060375

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-------------------|------------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2P135V3196-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 129'-0" |
| Q2T52B022 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P135V2867B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 129'-0" |
| Q2P135V3197-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 129'-0" |
| Q2P135V2866B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 129'-0" |
| Q2E125V3999A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 118' |
| Q2T52B025 | Terminal Block | States Co. | Type ZWM | CTMT | 118' |
| Q2E125V3999B-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 118' |
| Q2T52B001 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B023 | Penetration | General Electric | 100 Series | CTMT | 143' |
| 2VAFU-R5Q | Power Cable | | | CTMT | Varies |
| 2VAFU-R5D | Control Cable | | | CTMT | Varies |
| 2VAQ5048F | Control Cable | | | CTMT | Varies |
| 2VXR5005H | Control Cable | | | CTMT | Varies |
| 2VAFU-J4Q | Power Cable | | | CTMT | Varies |
| 2VAFU-J4D | Control Cable | | | CTMT | Varies |
| 2VAQ5009C | Control Cable | | | CTMT | Varies |
| 2VYR5066B | Instrument Cable | | | CTMT | Varies |
| 2VEL5008C.D.K.L | Control Cables | | | CTMT | Varies |
| 2VRC5010J | Control Cable | | | CTMT | Varies |
| 2VYR5035D | Control Cable | | | CTMT | Varies |
| 2VEL5005X.W | Control Cables | | | CTMT | Varies |
| 2VRC5012F | Control Cable | | | CTMT | Varies |
| 2VYR5035F | Control Cable | | | CTMT | Varies |
| 2VAL5122C | Control Cable | | | CTMT | Varies |

029931194

Joseph M. Farley Nuclear Plant Unit 2

Sheet 15 of 15

SYSTEM: CONTAINMENT COOLING AND PURGE

E-12, E-14, P-13

0060677

[illegible]

02993 1795

Joseph M. Farley Nuclear Plans Unit... 2

666073

SYSTEM: HYDROGEN RECOMBINER SYSTEM

8-17

[illegible]

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.9
Sheet 18

CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

ITEM: CHEMICAL AND POLYMER CONTROL/SAFETY INJECTION

E-21

0890900

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | | |
|----------------------------|-------------------------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | LOCATION | |
| Q1E21V038A (MOV8088A) | 12" Motor Operated Gate Valve | Limiterque | SM-4 | CTMT | 111'-6" |
| Q1E21V038B (MOV8088B) | 12" Motor Operated Gate Valve | Limiterque | SM-4 | CTMT | 112'-6" |
| Q1E21V038C (MOV8088C) | 12" Motor Operated Gate Valve | Limiterque | SM-4 | CTMT | 113'-6" |
| Q2E21SV8871 (MV8871) | Solenoid Valve | ASCO | NP831654V | CTMT | 122'-0" |
| Q2E21SV8871 (MV8871) | Limit Switch | NAMCO | EA-180 | CTMT | 123'-0" |
| Q2E21V249A (MOV8112) | 3" Motor Operated Gate Valve | Limiterque | SM-00 | CTMT | 123' |
| N2E21ZS8149A (MV8149A) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q2E21SV8149AB (MV8149A) | Solenoid Valve | ASCO | NP831654V | CTMT | 111'-0" |
| N2E21ZS8149B (MV8149B) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q2E21SV8149BB (MV8149B) | Solenoid Valve | ASCO | NP831654V | CTMT | 111'-0" |
| N2E21ZS8149C (MV8149C) | Limit Switch | NAMCO | EA-180 | CTMT | 111'-0" |
| Q2E21SV8149CB (MV8149C) | Solenoid Valve | ASCO | NP831654V | CTMT | 111'-0" |
| Q2T52B002 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B006 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| N2E21SV8871-A/JB | Junction Box | Stats Co | Type ZWH | CTMT | 143'-0" |
| Q2E21ZS8808AB | Limit Switch | NAMCO | EA-180 | CTMT | 111'-6" |
| Q2E21ZS8808BB | Limit Switch | NAMCO | EA-180 | CTMT | 112'-6" |
| Q2E21ZS8808CB | Limit Switch | NAMCO | EA-180 | CTMT | 113'-6" |
| Q2T52B014 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| N2E21SV8149AA-A/JB | Terminal Block | Statco Co. | Type ZWH | CTMT | 116'-0" |
| N2E21SV8149BA-A/JB | Terminal Box | Statco Co. | Type ZWH | CTMT | 116'-0" |

029931/98

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C 2.9
Sheet 19 of

ICLASS IE ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION

E-21

0060681

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|--------------------|----------------|--------------|----------|----------|-----------------|
| | | MANUFACTURER | MODEL | PLDG | ELEV |
| N2E21SV8149CA-A/JS | Terminal Block | States Co. | Type ZWM | CTMT | 116'-0" 6 above |
| 2VAFU-Z2Q | Power Cable | | | CTMT | Varies |
| 2VAFU-Z2D, G | Control Cables | | | CTMT | Varies |
| 2VAQ5023E | Control Cable | | | CTMT | Varies |
| 2VXA163B | Control Cable | | | CTMT | Varies |
| 2VBFV-S2Q | Power Cable | | | CTMT | Varies |
| 2VBFV-S2D, G | Control Cables | | | CTMT | Varies |
| 2VBQ5024C | Control Cable | | | CTMT | Varies |
| 2VXA163B | Control Cable | | | CTMT | Varies |
| 2VAFU-Z3Q | Power Cable | | | CTMT | Varies |
| 2VAFU-Z3D, G | Control Cables | | | CTMT | Varies |
| 2VAQ5024E | Control Cable | | | CTMT | Varies |
| 2VXA163D | Control Cable | | | CTMT | Varies |
| 2VAL5049C | Control Cable | | | CTMT | Varies |
| 2VAQ5022H | Control Cable | | | CTMT | Varies |
| 2VAFU-T4Q | Power Cable | | | CTMT | Varies |
| 2VAFU-T4D | Control Cable | | | CTMT | Varies |
| 2VAQ5018E | Control Cable | | | CTMT | Varies |
| 2VAL5042F | Control Cable | | | CTMT | Varies |
| 2VAL5042G | Control Cable | | | CTMT | Varies |
| 2VAQ5022F | Control Cable | | | CTMT | Varies |
| 2VAL5043F | Control Cable | | | CTMT | Varies |
| 2VAL5043G | Control Cable | | | CTMT | Varies |
| 2VAQ5023C | Control Cable | | | CTMT | Varies |
| 2VAL5044F | Control Cable | | | CTMT | Varies |

Joseph M. Farley Nuclear Plant Unit 2

Section C.2.9
Sheet 20 of

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: CHEMICAL AND VOLUME CONTROL/SAFETY INJECTION

E-21

0950662

[illegible]

02993 1800

Joseph M. Farley Nuclear Plant Unit 2

0060683

SYSTEM: REACTOR CAVITY POST LOCA DILUTION SYSTEM

8-22

[illegible]

027931801

Joseph M. Farley Nuclear Plant Unit 2 MASTER LIST

0060684

Section C.2.
Sheet 22ICLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITION
SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL E-23

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------------|---------------------------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | FL |
| Q2E23V021 (MOV3536) | 2" Motor Operated Gate Valve | Limiting | SMB-00 | CTMT | 116'- |
| Q2E23V003 (MOV3530) | 6" Motor Operated Gate Valve | Limiting | SMB-00 | CTMT | 130'- |
| Q2E23V022A (MOV3528A) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2E23V002B (MOV3528B) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2E23V022C (MOV3528C) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2E23V022D (MOV3528D) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2E23V025A (MOV3535A) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2E23V025B (MOV3535B) | 3/4" Motor Operated Globe Valve | Limiting | SMB-000 | CTMT | 126'-6 |
| Q2T52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B017 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B015 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 2VAFU-W4Q | Power Cable | | | CTMT | 116'-0" |
| 2VBFU-N2Q | Power Cable | | | CTMT | 116'-0" |
| 2VAFU-W4C | Control Cable | | | CTMT | 116'-0" |
| 2VAED06E | Control Cable | | | CTMT | 116'-0" |
| 2VBFV-N2C | Control Cable | | | CTMT | 116'-0" |
| 2VBE09E | Control Cable | | | CTMT | 116'-0" |
| 2VBFV-Y5Q | Power Cable | | | CTMT | 116'-0" |
| 2VBFV-Y5C | Control Cable | | | CTMT | 116'-0" |
| 2VBFV-Y4Q | Power Cable | | | CTMT | 116'-0" |

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: POST ACCIDENT CONTAINMENT COMBUSTIBLE GAS CONTROL K-23

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------------|---------------------------------|------------------|------------|----------|-----------------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2E23V021 (MOV3536) | 2" Motor Operated Gate Valve | Limitorgue | SMB-00 | CTMT | 116'-6" |
| Q2E23V003 (MOV3530) | 6" Motor Operated Gate Valve | Limitorgue | SMB-00 | CTMT | 130'-6" |
| Q2E23V022A (MOV3528A) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2E23V002B (MOV3523B) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2E23V022C (MOV3528C) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2E23V022D (MOV3528D) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2E23V025A (MOV3535A) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2E23V025B (MOV3535B) | 3/4" Motor Operated Globe Valve | Limitorgue | SMB-000 | CTMT | 126'-6" |
| Q2T52B005 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B017 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B015 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 2VAFV-W4Q | Power Cable | | | CTMT | 116'-0" |
| 2VBFV-N2Q | Power Cable | | | CTMT | 5 above 116'-0" |
| 2VAFV-W4Q | Control Cable | | | CTMT | 5 above 116'-0" |
| 2VAED06E | Control Cable | | | CTMT | 5 above 116'-0" |
| 2VBFV-N2Q | Control Cable | | | CTMT | 5 above 116'-0" |
| 2VBEO09E | Control Cable | | | CTMT | 5 above 116'-0" |
| 2VBFV-Y5Q | Power Cable | | | CTMT | 5 above 116'-0" |
| 2VBFV-Y5C | Control Cable | | | CTMT | 5 above 116'-0" |
| 2VBFV-Y4Q | Power Cable | | | CTMT | 5 above 116'-0" |

02299933 1804

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060688

Section C.2. L3
Sheet 25

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

ITEM: MAIN STEAM

N-11

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|----------------------------|----------------|--------------|------------|------------------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2N11253369A (HV3369AY) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253369AC (HV3369A) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253369B (HV3369B) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253369BC (HV3369B) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253369C (HV3369C) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253369CC (HV3369C) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253370A (V3370A) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253370AC (HV3370A) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253370B (HV3370B) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253370BC (HV3370B) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253370C (HV3370C) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 127'-5" |
| DELETED | | | | | |
| Q2N11253370CC (HV3370C) | Solenoid Valve | ASCO | NP8316E36V | Mn. Stem Room | 135'-0" |
| Q2N11253368A (HV3368A) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 131'-7" |
| Q2N11253368AA (HV3368A) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stem Room | 131'-7" |
| Q2N11253368B (HV3368B) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 131'-7" |
| Q2N11253368BA (HV3368B) | Solenoid Valve | ASCO | NP8321A1V | Mn. Stem Room | 131'-7" |
| Q2N11253368C (HV3368C) | Limit Switch | NAMCO | EA-180 | Mn. Stem Room | 131'-7" |
| Q2N11253368CA (HV3368C) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stem Room | 131'-7" |
| Q2N11253368A (HV3368A) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stem Room | 131'-7" |

Q2N11253368A

029931807

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060689

Section C.2.13
Sheet 26

PLANS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

(ITEM: MAIN STEAM

W-11

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|----------------------------|----------------|--------------|-----------|-----------------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2N11SV33976A (HV3976A) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 131'-7" |
| Q2N11SV33976B (HV3976B) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm Room | 131'-7" |
| Q2N11SV33976C (HV3976C) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 131'-7" |
| Q2N11SV33976D (HV3976D) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm Room | 131'-7" |
| Q2N11SV33976E (HV3976E) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 131'-7" |
| Q2N11SV3369AA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 131'-0" |
| Q2N11SV3369BA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 131'-0" |
| Q2N11SV3369CA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 131'-0" |
| | | | | | |
| | | | | | |
| Q2N11SV3370AA-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3370BA-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3370CA-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| | | | | | |
| | | | | | |
| Q2N11SV3368AA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3368BA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3368CA-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3368DA-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3368E-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| Q2N11SV3368F-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 137'-0" |
| 2VA25019E, F | Control Cables | | | Mn. Stm Room | 135' |
| 2VA25043C | Control Cable | | | Mn. Stm Room | 135' |
| 2VAQ5013A | Control Cable | | | Mn. Stm Room | 135' |
| | | | | Mn. Stm Room | 135' |

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060691

Section C.2.13

Shoes 25 of

CLASS 12 ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: MAIN STEAM

W-11

[illegible]

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060692

Section C.2.14
Sheet 29

EQUIPMENT IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

EQUIPMENT: AUXILIARY STEAM

W-12

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|---------------------------|-------------------|--------------|-------------|-----------------|--------------------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2N12SV3234A (HV2234A) | Solenoid Valve | ASCO | NP8320A186V | Mn. Stm Room | 135'-0" |
| Q2N12SV3234A (HV2234A) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 134'-0" |
| Q2N12SV3234B (HV2234B) | Solenoid Valve | ASCO | NP8320A186V | Mn. Stm Room | 135'-0" |
| Q2N12SV3234B (HV2234B) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 134'-0" |
| Q2N12SV3235A (HV2235A) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm Room | 135'-0" |
| Q2N12SV3235A (HV2235A) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 140'-0" |
| Q2N12SV3235B (HV2235B) | Solenoid Valve | ASCO | NP8321A2V | Mn. Stm Room | 135'-0" |
| Q2N12SV3235B (HV2235B) | Limit Switch | NAMCO | EA-180 | Mn. Stm Room | 140'-0" |
| Q2N12SV3234A-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 135'-0" & above |
| Q2N12SV3234B-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 135'-0" & above |
| Q2N12SV3235A-A/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 135'-0" & above |
| Q2N12SV3235B-B/JB | Terminal Block | States Co. | Type FVM | Mn. Stm Room | 135'-0" & above |
| 2VAL5003B | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VAC5011A | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VTR5007F | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VRL5007B | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VTR5013B | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VTR5033E | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VAL5004C | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VAC5010D | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VNR5001A,3 | Instrument Cables | | | Mn. Stm Room | 135'-0" & above |
| 2VRL5003C | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VTR5011B | Control Cable | | | Mn. Stm Room | 135'-0" & above |
| 2VTRJ183C, D, G, H | Control Cables | | | Mn. Stm Room | 135'-0" & above |

SEP-13-74 1/80

029931811

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0060694

Section C.2.16
Sheet 31

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

ITEM AUXILIARY FEEDWATER

1-23

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|----------------------------|--|--------------|-------------|-----------------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2N23V011A (MOV3350A) | 4" Motor Operated Stop-Check Globe V1 | Limitoreau | SM-1 | Mn. Scm Room | 137'-5" |
| Q2N23V001B (MOV3350B) | 4" Motor Operated Stop-Check Globe V1 | Limitoreau | SM-1 | Mn. Scm Room | 137'-5" |
| Q2N23V001C (MOV3350C) | 4" Motor Operated Stop-Check Globe V1 | Limitoreau | SM-1 | Mn. Scm Room | 137'-5" |
| Q2N23283228A (MV3228A) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3228AA (MV3228A) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N23283228B (MV3228B) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3228BA (MV3228B) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N23283228C (MV3228C) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3228CA (MV3228C) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N23283227A (MV3227A) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3227AA (MV3227A) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N23283227B (MV3227B) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3227BA (MV3227B) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N23283227C (MV3227C) | Limit Switch | WAMCO | EA-180 | Mn. Scm Room | 135'-0" |
| Q2N238V3227CA (MV3227C) | Solenoid Valve | ASCO | NP8320A168V | Mn. Scm Room | 135'-0" |
| Q2N238V3228AA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| Q2N238V3228BA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| Q2N238V3228CA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| Q2N238V3227AA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| Q2N238V3227BA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| Q2N238V3227CA-A/JB | Terminal Block | States Co. | Type EWM | Mn. Scm Room | 144'-0" |
| 2VAFU-U40 | Power Cable | | | Mn. Scm Room | 135'-0" |
| 2VAFU-U50 | Power Cable | | | Mn. Scm Room | 5 above |
| 2VAFU-I20 | Power Cable | | | Mn. Scm Room | 5 above |
| 2VAFU-U6A, D | Control Cables | | | Mn. Scm Room | 135'-0" |

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST 0060695

Section C.2.16
Sheet 32 of

(CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: AUXILIARY FEEDWATER

N-23

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-----------------|-------------------|--------------|-------|-----------------|--------------------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| 2VAFU-USA, D | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAFU-Y2A, D | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5007B | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5008B | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5009B | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5007C | Instrument Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5008C | Instrument Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5009C | Instrument Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5010E, K | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5012E, K | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5014E, K | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VXR5007K, L, M | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5013C | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5014C | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5015C | Control Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5013D | Instrument Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5014D | Instrument Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAL5015D | Instrument Cable | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5048H, K | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5006C, H | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VAQ5008C, H | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| 2VXR5007G, H, J | Control Cables | | | Mn. Stm Room | 135'-0" 6 above |
| | | | | | |
| | | | | | |
| | | | | | |

0000096 Section C.2.17
Sheet 13

Section C.2.17
Sheet 33

SYSTEM: CHEMICAL INJECTION SYSTEM

W-29

[illegible]

029931815

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

0000097

Section C.2.18
Sheet 34

(THIS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM

P-15

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|---------------------------|----------------|--------------|-------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2P158V3103 (MV3103) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283103 (MV3103) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3765 (MV3765) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283765 (MV3765) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3766 (MV3766) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283766 (MV3766) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3179A (MV3179A) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283179A (MV3179A) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3179B (MV3179B) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283179B (MV3179B) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3179C (MV3179C) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283179C (MV3179C) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3180A (MV3180A) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283180A (MV3180A) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3180B (MV3180B) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283180B (MV3180B) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3180C (MV3180C) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283180C (MV3180C) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3181A (MV3181A) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283181A (MV3181A) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3181B (MV3181B) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283181B (MV3181B) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3181C (MV3181C) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |
| Q2P15283181C (MV3181C) | Limit Switch | RAMCO | EA-180 | CTMT | 129'-0" |
| Q2P158V3104 (MV3104) | Solenoid Valve | ASCO | NF8320A184V | CTMT | 129'-0" |

Q2P158V3180

Joseph M. Farley Nuclear Plant Unit 2

MASTER LIST

Section C.2.18

Sheet 35 of

CLASS IS ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: SAMPLING SYSTEM

P-15

| PLANT ID NUMBER | GENERIC NAME | MANUFACTURER | MODEL | LOCATION | |
|-------------------------|----------------|------------------|------------|----------|--------------------|
| | | | | BLDG | ELEV |
| Q2P15SV3104 (HV3104) | Limit Switch | MACCo | EA-180 | CTMT | 129'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P15SV3103-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3765-A/JB | Junction Box | States Co. | Type ZWM | CTMT | 135'-0" |
| Q2T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P15SV3766-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3179A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3179B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3179C-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P15SV3180A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3180B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3180C-B/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3181A-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3181B-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3181C-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| Q2P15SV3104-A/JB | Terminal Block | States Co. | Type ZWM | CTMT | 135'-9" |
| 2VAL5063B | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VAQ5049H | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VXR5010B | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VAL5063B | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VAQ5022J | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VXR5010F | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VAL5066A | Control Cable | | | CTMT | 129'-0" 6 above |
| 2VAQ5033J | Control Cable | | | CTMT | 129'-0" 6 above |

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM: SERVICE WATER

P-16

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|--------------------------|-------------------------------|------------------|------------|----------|---------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2F16V207A (MOV3441A) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-0" |
| Q2F16V207B (MOV3441B) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-0" |
| Q2F16V207C (MOV3441C) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-0" |
| Q2F16V207D (MOV3441D) | 10" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-0" |
| Q2F16V081 (MOV3131) | 6" Motor Operated Gate Valve | Limitorque | SMB-00 | CTMT | 130'-0" |
| Q2T52B003 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B015 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B007 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B014 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| 2VBFBV-J4Q | Power Cable | | | CTMT | 130'-0" |
| 2VBFBV-J4D | Control Cable | | | CTMT | 130'-0" |
| 2VBQ5007D | Control Cable | | | CTMT | 130'-0" |
| 2VTR4006B, D | Control Cables | | | CTMT | 130'-0" |
| 2VTR8164B, C | Control Cables | | | CTMT | 130'-0" |
| 2VBFBV-J5Q | Power Cable | | | CTMT | 130'-0" |
| 2VBFBV-J5D | Control Cable | | | CTMT | 130'-0" |
| 2VBQ5009D | Control Cable | | | CTMT | 130'-0" |
| 2VAFU-K6Q | Power Cable | | | CTMT | 130'-0" |
| 2VAFU-K6D | Control Cable | | | CTMT | 130'-0" |
| 2VAC5007D | Control Cable | | | CTMT | 130'-0" |
| 2VTR3005B, D, F | Control Cables | | | CTMT | 130'-0" |
| 2VTR8164B, C | Control Cables | | | CTMT | 130'-0" |
| 2VAFU-W2Q | Power Cable | | | CTMT | 130'-0" |

CLASS II ELECTRICAL EQUIPMENT REQUIRED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS)

SYSTEM: COMPONENT COOLING WATER

P-17

| PLANT ID NUMBER | GENERIC NAME | COMPONENTS | | LOCATION | |
|-------------------------|---------------------------------|---------------------|------------|----------|--------------------|
| | | MANUFACTURER | MODEL | BLDG | ELEV |
| Q2P17V057 (MOV3046) | 6" Motor Operated Gate Valve | Limitorque | FMB-00 | CTMT | 130'-6" |
| Q2P17SV3184 (MV3184) | Solenoid Valve | ASCO | NP8316A77V | CTMT | 118'-0" |
| Q2P17SV3184 (MV3184) | Limit Switch | NAMCO | EA-180 | CTMT | 118'-0" |
| Q2P17SV3443 (MV3443) | Solenoid Valve | ASCO | NP8316A74V | CTMT | 129'-0" |
| Q2P17SV3443 (MV3443) | Limit Switch | NAMCO | EA-180 | CTMT | 129'-0" |
| Q2T52B016 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B038 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B020 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P17SV3184-B/JB | Terminal Block | States Co. | Type 2-M | CTMT | 118'-0" |
| Q2T52B019 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2T52B041 | Penetration | General Electric | 100 Series | CTMT | 143'-0" |
| Q2P17SV3443-A/JB | Terminal Block | States Co. | Type 2-M | CTMT | 129'-0" |
| 2VBFV-C3Q | Power Cable | | | CTMT | 118'-0" |
| 2VBFV-C3D | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VBO5017C | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VVR5006F | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VBL5009G-D.E.F | Control Cables | | | CTMT | 6 above 118'-0" |
| 2VBO5017H | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VVR5025B | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VAL5035C | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VAC5029H | Control Cable | | | CTMT | 6 above 118'-0" |
| 2VVR5064F | Control Cable | | | CTMT | 6 above 119'-0" |
| | | | | | |
| | | | | | |
| | | | | | |

0060703

APPENDIX III

ENVIRONMENTAL QUALIFICATION TEST REPORT LIST

029931022

LIST OF EFFECTIVE PAGES

0060704

[illegible]

0 2 9 9 3 1 0 2 4

ATTACHMENT -
ACCEPTABLE TEST REPORT LIST

Page 1

| MANUFACTURER | MODEL | INSTRUMENT | TEST REPORTS |
|---|------------|----------------------|--|
| Automatic Switch Company (ASCO) | NP Series | Solenoid Valves | Automatic Switch Company Test Report AQS2167B/TR, Rev. A, dated July, 1979 |
| | 206 Series | Solenoid Valves | Automatic Switch Company Test Report AQS2167B/TR Rev. A, dated July, 1979 |
| | 763 Lot 1 | Pressure Transmitter | RS-TMA-1950 RS-TMA-2120 |
| | 764 Lot 1 | Level Transmitter | RS-TMA-1950 RS-TMA-2120 |
| Barton | 763 Lot 2 | Pressure Transmitter | WCAP-9885-Environmental Qualification of ITT/Barton Transmitters |
| | 764 Lot 2 | Level Transmitter | WCAP-9885-Environmental Qualification of ITT/Barton Transmitters |
| | 155-1802 | Instrument Cable | Boston Insulated Wire and Cable Company Test Report 73ED62, dated 09-07-73 |
| Boston Insulated Wire and Cable Company | | | |

0060705

029931825

Page 2

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

| MANUFACTURER | MODEL | INSTRUMENT | TEST REPORTS |
|--------------|------------|----------------------|---|
| Foxboro | E11GM(MCA) | Pressure Transmitter | WCAP 8541-Topical Report Seismic and Environmental Testing of Foxboro Transmitters |
| | E13DM | Flow Transmitters | WCAP-9157- Environmental Qualification of Safety Related Class IE Process Instrumentation |
| GEMS Delaval | XM-36495 | Level Transmitters | FIRL Test Report F-C3834 dated 03-74 Isomedix Test Report for GEMS Liquid Level Sensor dated 11-75 |
| | LS-36497 | Level Switch | FIRL Test Report F-C3834 dated 03-74 Isomedix Test Report for GEMS Liquid Sensor date 11/75 |

0060706

0 2 9 9 3 1 8 2 6

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

Page 3

| MANUFACTURER | MODEL | INSTRUMENT | TEST REPORTS |
|-------------------|------------|-----------------------|--|
| General Electric | 100 Series | Penetrations | General Electric Company Report - Low Voltage Electrical Containment Qualification Test Report |
| Joy Manufacturing | Type P | Containment Fan Motor | Joy Manufacturing Company Qualification Test Report X-604 |
| Linitorque | | Motor Operations | Linitorque Corporation Test Report 600456, dated 12-06-75 Linitorque Corporation Technical Report No. F-C3441, dated 09-72 Linitorque Corporation Technical Report No. F-C2232-01, dated 11-68 |

0060707

0 2 9 9 3 1 8 2 7

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

Page 4

| MANUFACTURER | MODEL | INSTRUMENT | TEST REPORTS |
|--------------|--------|-------------------------|--|
| NAMCO | EA-180 | Limit Switch | ACME-Cleveland Development Company Qualification Report No. 105, Revision 3, dated 08-28-80 |
| | EA-740 | Limit Switch | ACME-Cleveland Development Company Report, "Qualification of NAMCO Controls Limit Switch Model EA-740 to IEEE Standards 344 (1975), 323 (1974) and 382 (1972)," Revision 1, dated 02-22-79 |
| Okonite | N/A | Control and Power Cable | Okonite Company Engineering Report No. 141, dated 02-29-77 Okonite Company Engineering Report No. W-1, dated 07-03-78 Okonite Report No. APFNP0183 dated 01-12-83 |

0060708

ATTACHMENT 4
ACCEPTABLE TEST REPORT LIST

Page 5

| MANUFACTURER | MODEL | INSTRUMENT | TEST REPORTS |
|--------------|----------|-------------------|---|
| ROSEMOUNT | 176 KF | RTD | WCAP 9157 - Environmental of Safety Related Class IE Process Instrumentation |
| | 176 KS | RTD | WCAP 9157- Environmental Qualification of Safety Related Class IE Process Instrumentation |
| States | Type ZMM | Terminal Block | Wyle Laboratories NEQ Test Report 44354-1, dated 03-08-79 |
| Victoreen | 877-1 | Radiation Monitor | Victoreen Test Report 950.301, dated 06-19-81 |

0060709

0 2 9 9 3 1 8 2 9

ATTACH 4
ACCEPTABLE TEST REPORT LIST

△ NEW SHEET

Page 6

MANUFACTURER

MODEL

INSTRUMENT

TEST REPORTS

Westinghouse

N/A

Penetration

PEW-TR-79-07
dated 01-25-79
Technical Report and Qualification
Data for Low Voltage Control
and Instrument Electrical
Penetrations.

0060710

0060711

APPENDIX IV

COMPONENT, MAINTENANCE AND REPLACEMENT SCHEDULE

02993830

LIST OF EFFECTIVE PAGES

0060712

| PAGE NO. | REVISION NO. | | | | | | | | | | | |
|----------|--------------|---|---|---|---|---|---|---|---|---|----|----|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | X | | | | | | | | | | | |
| 2 | X | | | | | | | | | | | |
| 3 | X | | | | | | | | | | | |
| 4 | X | | | | | | | | | | | |
| 5 | X | | | | | | | | | | | |
| 6 | X | | | | | | | | | | | |
| 7 | X | | | | | | | | | | | |
| 8 | X | | | | | | | | | | | |
| 9 | X | | | | | | | | | | | |
| 10 | X | | | | | | | | | | | |
| 11 | X | | | | | | | | | | | |
| 12 | X | | | | | | | | | | | |
| 13 | X | | | | | | | | | | | |
| 14 | X | | | | | | | | | | | |
| 15 | X | | | | | | | | | | | |
| 16 | X | | | | | | | | | | | |
| 17 | X | | | | | | | | | | | |
| 18 | X | | | | | | | | | | | |
| 19 | X | | | | | | | | | | | |
| 20 | X | | | | | | | | | | | |
| 21 | X | | | | | | | | | | | |
| 22 | X | | | | | | | | | | | |
| 23 | X | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

029931831

Determine Life Equipment UNIT 1

Page 1

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|----------------|----------|----------|------|---------------------------|--------------------|
| GEMS Delaval | Q1E11L13594A | Level Trans. | XM-36495 | CTMT | * | 12/77 | |
| | 3594B | | | | | | |
| | Q1G21L13282A-A | Level Sensor | XM-54854 | CTMT | | 11/79 | |
| | 3282B-B | | | | | | |
| Target Rock | Q1N21L1SH2828A | Level Switch | LS-36497 | M S RM | | 12/77 | |
| | 2828B | | | | | | |
| | 2828C | | | | | | |
| | 2829A | | | | | | |
| | 2829B | | | | | | |
| | 2829C | | | | | | |
| | Q1B135V2213A | Solenoid Valve | 79AB001 | CTMT | * | 11/79 | |
| | 2213B | | | | | | |
| | 2214A | | | | | | |
| | 2214B | | | | | | |

*To be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

0060717

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|--------|----------|----------------|---------------------------|--------------------|
| NAMCO | QIN23253227A | Limit Switch | EA-180 | M 5 RM | 18 Yrs | 03/82 | 03/00 |
| | 3227B | | | | | | |
| | 3227C | | | | | | |
| | 3228A | | | | | | |
| | 3228B | | | | | | |
| | 3228C | | | | | | |
| | QIN25253772A | | EA-180 | M5 RM | 18 Yrs | 03/82 | 3/00 |
| | 3772B | | | | | | |
| | 3772C | | | | | | |
| | QIP13252866B | | EA-740 | CTMT | 6.1 Yrs | 12/77 | 01/84 |
| | 2867B | | | | | | |
| | 3196 | | EA-180 | | 6.1 Yrs | 11/79 | 12/85 |
| | 3197 | | | | | | |
| | QIP15253103 | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 3104 | | | | | | |
| | 3179A | | | | | | |
| | 3179B | | | | | | |
| | 3179C | | | | | | |
| | 3180A | | | | | | |
| | 3180B | | | | | | |
| | 3180C | | | | | | |
| | 3181A | | | | | | |
| | 3181B | | | | | | |
| | 3181C | | | | | | |
| | 3765 | | | | | | |
| | 3766 | | | | | | |
| | QIP17253184 | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 3443 | | | | | | |
| Rosemount | NIB131E4'28 | RTD | 176KF | CTMT | 10 Yrs | 12/77 | 12/87 |
| | 412D | | | | | | |
| | 422B | | | | | | |
| | 422D | | | | | | |
| | 432B | | | | | | |
| | 432D | | | | | | |
| | NIB211E410 | | 176KS | CTMT | Under Eval. | 12/77 | |
| | 413 | | | | | | |
| | 420 | | | | | | |
| | 423 | | | | | | |
| | 430 | | | | | | |
| | 433 | | | | | | |

0000714

0 INDETERMINATE LIFE EQUIPMENT
UNIT 1

Page 3

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|---------------|-------------|----------|------|---------------------------|--------------------|
| Barton Lot 1 | WIB21PI402 | Press. Trans. | 763 | CTMT | * | 11/79 | |
| | 403 | | | | | | |
| | QIB31LI455 | Level Trans | 764 | CTMT | | 11/79 | |
| | 460 | | | | | | |
| | 461 | | | | | | |
| | QIC22LI474 | Level Trans. | 764 | CTMT | | 11/79 | |
| | 475 | | | | | | |
| | 476 | | | | | | |
| | 484 | | | | | | |
| | 485 | | | | | | |
| Foxboro | 486 | | | | | | |
| | 494 | | | | | | |
| | 495 | | | | | | |
| | 496 | | | | | | |
| | QIM11LI477 | Level Trans. | 764 | CTMT | | 11/79 | |
| | 487 | | | | | | |
| | 488 | | | | | | |
| | QIB31PI456 | Press Trans. | E11GN (MCA) | CTMT | * | 12/77 | |
| | 457 | | | | | | |
| | QIC22FI474 | Flow Trans. | E13DM | CTMT | | 12/77 | |
| | 475 | | | | | | |
| | 484 | | | | | | |
| | 485 | | | | | | |
| | 494 | | | | | | |
| | 495 | | | | | | |

0060715

*To be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--|----------------|--|----------|--------|------------------------------------|--------------------|
| ASCO | NIB31SV0444BA 0444BS 0445AA 0445AB | Solenoid Valve | NP831654V | CTMT | 8 Yrs | 03/81 | 03/89 |
| | QIB31SV8047 | | NP831654V | CTMT | 8 Yrs | 11/79 | 11/87 |
| | NIC22SV0478A 0478B 0479A 0479B 0488A 0488B 0489A 0489B 0498A 0498B 0499A 0499B | | HV-2063812RVU HV-2063814RVU HV-2063812RVU HV-2063814RVU HV-2063812RVU HV-2063814RVU | M S RM | 18 Yrs | 03/82 | 3/00 |
| | QIE12SV3999A 3999B | | | CTMT | | To be re- placed at 4th R.O. | |
| | QIE21SV8149AB 8149BB 8149CB 8871 | | 206-381-6RF | CTMT | 8 Yrs | 12/77 | 12/85 |
| | QIG21SV3376 7126 | | NP831654V NP831654V NP831654V | CTMT | 8 Yrs | 04/80 04/80 | 04/80 04/88 |
| | NIG21SV1003B | | 206-381-6RF | CTMT | 8 Yrs | 11/79 | 11/87 |
| | QIN11SV3368AA 3368BA 3368CA 3369AC 3369BC 3369CC 3370AC 3370BC 3370CC 3976A 3976B 3976C | | NP8321A2V NP8316E36V NP8321A2V | M S RM | 18 Yrs | 03/82 | 3/00 |
| | QIN12SV3234A 3234B 3235A | | NP8320A136V NP8321A2V | M S RM | 18 Yrs | 03/82 | 3/00 |

Page 5

0060717

0 2 LINEED JIFE EQUIPMENT UNIT 1

Page 6

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|--------|----------|---------|---------------------------|--------------------|
| NAMCO | Q1B13ZS2034 | Limit Switch | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 2035 | | | | | | |
| | 2036 | | | | | | |
| | Q1B31ZS04449 | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 0441 | | | | | | |
| | M1B31ZS8047 | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | M1C22ZS0478 | | EA-180 | MS RM | 18 Yrs | 03/82 | 3/00 |
| | 0479 | | | | | | |
| | 0488 | | | | | | |
| | 0499 | | | | | | |
| | 0498 | | | | | | |
| | 0499 | | | | | | |
| | Q1E12ZS3999A | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 3999B | | | | | | |
| | M1E21ZS8149A | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 8149B | | | | | | |
| | 8149C | | | | | | |
| | Q1E21ZS8808AB | | EA-180 | CTMT | 8 Yrs | 03/82 | 03/90 |
| | 8808BB | | | | | | |
| | 8808CB | | | | | | |
| | 8871 | | | | | | |
| | Q1G21ZS3376 | | EA-180 | CTMT | 6.1 Yrs | 11/79 | 12/85 |
| | 7126 | | | | | | |
| | M1G21ZS1003B | | EA-180 | CTMT | 8 Yrs | 03/82 | 03/90 |
| | Q1N11ZS3368A | | EA-180 | M S RM | 18 Yrs | 03/82 | 3/00 |
| | 3368B | | | | | | |
| | 3368C | | | | | | |
| | 3369A | | | | | | |
| | 3369B | | | | | | |
| | 3369C | | | | | | |
| | 3370A | | | | | | |
| | 3370B | | | | | | |
| | 3370C | | | | | | |
| | 3976A | | | | | | |
| | 3976B | | | | | | |
| | 3976C | | | | | | |
| | Q1N12ZS3234A | | | M S RM | 18 Yrs | 03/82 | 03/90 |
| | 3234B | | | | | | |
| | 3235A | | | | | | |
| | 3235B | | | | | | |

00607
03/90

0060713

0 2 40-YEAR LIFE EQUIPMENT UNIT 1

Page 8

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|---|--------------|-------------|-------------------|--------|---------------------------|--------------------|
| Cable | Cable manufacturers are subject to change without notice. Cable is adequately identified by IPMS No. in the Equipment Master List. No maintenance activi- ties are required. | ---- | --- | CTMT and MS RM | 40 Yrs | 12/77 | N/A |
| G.E. | Q1152B001 B002 B005 B006 B007 B009 B010 B011 B012 B014 B015 B016 B017 B019 B020 B022 B023 B024 B025 B028 B030 B038 B040 B041 B042 | Penetration | 1000 Series | CTMT | 40 Yrs | 12/77 | N/A |

0060720

0 2402 YEAR LIFE EQUIPMENT UNIT 1

Page 9

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|----------------|---------|----------|--------|---------------------------|--------------------|
| Joy Mfg. Co. | Q1E12M001A | CTMT Ctr Fan | Type P | CTMT | 40 Yrs | 12/77 | M/A |
| | M001B | | | | | | |
| | M001C | Mixing Fan Mtr | | | | | |
| | M001D | | | | | | |
| Limiterque | Q1E19M001A | | | | | | |
| | M001B | | | | | | |
| | M001C | | | | | | |
| | M001D | | | | | | |
| | Q1E22M001A | Dilut Fan Mtr | | | | | |
| | M001B | | | | | | |
| | Q1E14M0V3660 | Motor Operator | SMB-000 | CTMT | 40 Yrs | 12/77 | M/A |
| | 3318B | | | | | | |
| | Q1E21M0V808A | | SMB-4 | CTMT | | | |
| | 8808B | | | | | | |
| | 8808C | | | | | | |
| | 8112 | | | | | | |
| | Q1E22M0V3872A | | SMB-00 | CTMT | | | |
| | 3872B | | SMB-000 | CTMT | | | |
| | Q1E23M0V3528A | | SMB-000 | CTMT | | | |
| | 3528B | | | | | | |
| | 3528C | | | | | | |
| | 3528D | | | | | | |
| | 3530 | | SMB-00 | | | | |
| | 3536 | | SMB-000 | | | | |
| | 3835A | | SMB-4T | M S RM | | | |
| | 3835B | | | | | | |
| | Q1M21M0V3232A | | | | | | |
| | 3232B | | | | | | |
| | 3232C | | | | | | |
| | Q1M23M0V3350A | | SMB-1 | M S RM | | | |
| | 3350B | | | | | | |
| | 3350C | | SMB-0P | CTMT | | | |
| | Q1P16M0V3131 | | | | | | |
| | 3441A | | | | | | |
| | 3441B | | | | | | |
| | 3441C | | | | | | |
| | 3441D | | SMB-00 | CTMT | | | |
| | Q1P17M0V3046 | | | | | | |

0000721

0 200912R DIFF EQUIPMENT UNIT 1

Page 11

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--------------------|----------------|----------|----------|---------|---------------------------|--------------------|
| States Co | QIM115V3370AA-B/JB | Terminal Block | Type ZMM | M S RM | 40 Yrs. | 12/77 | N/A |
| | 3370BA-B/JB | | | | | | |
| | 3370CA-B/JB | | | | | | |
| | 3976A-B/JB | | | | | | |
| | 3976B-B/JB | | | | | | |
| | 3976C-B/JB | | | | | | |
| | QIM125V3234A-A/JB | | | | | | |
| | 3234B-B/JB | | | | | | |
| | 3235A-A/JB | | | | | | |
| | 3235B-B/JB | | | | | | |
| | QIM235V3227AA-1/JB | | | | | | |
| | 3227BA-A/JB | | | | | | |
| | 3227CA-A/JB | | | | | | |
| | 3228AA-A/JB | | | | | | |
| | 3228BA-A/JB | | | | | | |
| | 3228CA-A/JB | | | | | | |
| | QIM255V3772A-A/JB | | | | | | |
| | 3772B-A/JB | | | | | | |
| | 3772C-A/JB | | | | | | |
| | QIP135V2667B-B/JB | | | | | | |
| | 2866B-B/JB | | | | | | |
| | 3196-B/JB | | | | | | |
| | 3197-B/JB | | | | | | |
| | QIP155V3103-A/JB | | | | | | |
| | 3104-A/JB | | | | | | |
| | 3179A-A/JB | | | | | | |
| | 3179B-A/JB | | | | | | |
| | 3179C-B/JB | | | | | | |
| | 3180A-A/JB | | | | | | |
| | 3180B-A/JB | | | | | | |
| | 3180C-B/JB | | | | | | |
| | 3181A-A/JB | | | | | | |
| | 3181B-A/JB | | | | | | |
| | 3181C-A/JB | | | | | | |
| | 3765-A/JB | | | | | | |
| | 3766-A/JB | | | | | | |
| | QIP175V3184-B/JB | | | | | | |
| | 3443-A/JB | | | | | | |

006072

0 2402 YEAR LIFE EQUIPMENT 3
UNIT 1

Page 12

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|---------------------------|----------------------------|--------|----------|--------|---------------------------|--------------------|
| Victoreen | Q1D21RE0027A-A 0027B-B | Rad. Dect. | 877-1 | CTMT | 40 Yrs | 12/77 | N/A |
| Westinghouse | Q1E17G001A G001B | H ₂ Recomb Htrs | Type A | CTMT | 40 Yrs | 12/77 | N/A |

000724

DINDEFERMINA THE EQUIPMENT

UNIT 2

Page 13

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|---------------|-------|----------|------|---------------------------|--------------------|
| Barton Lot 2 | MZB21PI402 | Press. Trans. | 763 | CINT | * | 07/81 | |
| | 403 | | | | | | |
| | QZB31PI455 | Press. Trans. | 763 | | | | |
| | 456 | | | | | | |
| | 457 | | | | | | |
| | QZB31LI459 | Level Trans. | 764 | | | | |
| | 460 | | | | | | |
| | 461 | | | | | | |
| | QZC22FI474 | Flow Trans. | 764 | | | | |
| | 475 | | | | | | |
| | 484 | | | | | | |
| | 485 | | | | | | |
| | 494 | | | | | | |
| | 495 | | | | | | |
| | QZC22LI474 | Level Trans. | 764 | | | | |
| | 475 | | | | | | |
| | 476 | | | | | | |
| | 484 | | | | | | |
| | 485 | | | | | | |
| | 486 | | | | | | |
| | 494 | | | | | | |
| | 495 | | | | | | |
| | 496 | | | | | | |
| | QZB31LI477 | Level Trans. | 764 | | | | |
| | 487 | | | | | | |
| | 497 | | | | | | |

0060725

*To be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|---|----------------|---|----------------|-----------------|---------------------------|--------------------|
| ASCO | N2B31SV0448A 04448B 0445AA 0445AB | Solenoid Valve | ---- | CTMT | ---- | " | ---- |
| | Q2B31SV047 N2C22SV0478A 0478B 0479A 0479B 0488A 0488B 0489A 0489B 0498A 0498B 0499A 0499B | | NP831654E HV2063812RU HV-206-381-4U HV-206-3812RU HV-206-381-4U HV-206-3812RU HV-206-381-4U | CTMT M 5 RM | 8 Yrs 18 Yrs | 07/81 07/81 | 07/89 07/99 |
| | Q2E12SV3999A 3999B Q2E21SV8149CB 8149BB 8149CB 8871 | | ---- NP831654V | CTMT CTMT | ---- | " | ---- |
| | Q2G21SV1003B 3376 7126 | | 206-301-6RF NP8316A74E NP8316A54E | CTMT | 8 Yrs | 07/81 | 07/89 |

To be replaced with a qualified model during the first refueling outage.

0 2 LIMITED LIFE EQUIPMENT UNIT 2

Page 15.

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|-------------|----------|--------|---------------------------|--------------------|
| ASCO | Q2N11SV3368AA | Solenoid Val | NP8321A2V | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3368BA | | | | | | |
| | 3368CA | | | | | | |
| | 3369AC | | NP8316E36V | | | | |
| | 3369BC | | | | | | |
| | 3369CC | | | | | | |
| | 3370AC | | | | | | |
| | 3370BC | | | | | | |
| | 3370CC | | | | | | |
| | 3976A | | NP8321A2V | | | | |
| | 3976B | | | | | | |
| | 3976C | | | | | | |
| | Q2N12SV3234A | | NP8320A186V | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3234B | | | | | | |
| | 3235A | | NP8321A2V | | | | |
| | 3235B | | | | | | |
| | Q2N23SV3227AA | | NP8320A186V | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3227BA | | | | | | |
| | 3227CA | | | | | | |
| | 3228AA | | | | | | |
| | 3228BA | | | | | | |
| | 3228CA | | | | | | |
| | Q2N25SV3772A | | NP8316A74V | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3772B | | | | | | |
| | 3772C | | | | | | |
| | Q2P13SV2866B | | NP831654V | CTMT | 8 Yrs | 07/81 | 07/89 |
| | 2967B | | | | | | |
| | Q2P15SV3103 | | NP8320A184V | | 8 Yrs | 07/81 | 07/89 |
| | 3104 | | | | | | |
| | 3179A | | | | | | |
| | 3179B | | | | | | |
| | 3179C | | | | | | |
| | 3180A | | | | | | |
| | 3180B | | | | | | |
| | 3180C | | | | | | |
| | 3181A | | | | | | |
| | 3181B | | | | | | |
| | 3181C | | | | | | |
| | 3765 | | | | | | |
| | 3766 | | | | | | |
| | Q2P17S3184 | | NP8316A77V | CTMT | 8 Yrs | 07/81 | 07/89 |
| | 3443 | | NP8316A74V | | | | |

0060727

0 2 19M125044B EFFECTIVE REQUIREMENT UNIT 2

Page 16.

| MANUFACTURER | FLAME I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|--------|----------|---------|------------------------|-----------------|
| MANCO | Q2813/5044B | Limit Switch | EA-180 | CIMI | 6.1 Yrs | 07/81 | 08/87 |
| | 0445A | | | | | | |
| | 2034 | | | | | | |
| | 2035 | | | | | | |
| | 2036 | | | | | | |
| | M2831/58047 | | EA-180 | CIMI | 6.1 Yrs | 07/81 | 08/87 |
| | M2C27/50478 | | EA-180 | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 0479 | | | | | | |
| | 0488 | | | | | | |
| | 0489 | | | | | | |
| | 0498 | | | | | | |
| | 0499 | | | | | | |
| | Q2E12/5399A | | EA-180 | CIMI | 6.1 Yrs | 07/81 | 08/87 |
| | 3999B | | | | | | |
| | Q2E21/58149A | | EA-180 | CIMI | 6.1 Yrs | 07/81 | 06/87 |
| | 8149B | | | | | | |
| | 8149C | | | | | | |
| | 8808AB | | | | | | |
| | 8808BB | | | | | | |
| | 8808CB | | | | | | |
| | 8871 | | | | | | |
| | M2G21/51003B | | EA-180 | CIMI | 6.1 Yrs | 07/81 | 08/87 |
| | Q2G21/53376 | | EA-180 | CIMI | 6.1 Yrs | 07/81 | 08/87 |
| | 7126 | | | | | | |
| | Q2M11/53368A | | EA-180 | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3368B | | | | | | |
| | 3368C | | | | | | |
| | 3369A | | | | | | |
| | 3369B | | | | | | |
| | 3369C | | | | | | |
| | 3370A | | | | | | |
| | 3370R | | | | | | |
| | 3370A | | | | | | |
| | 3370B | | | | | | |
| | 3916A | | | | | | |
| | 3916B | | | | | | |
| | 3916C | | | | | | |
| | Q2M12/53234A | | EA-180 | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3234B | | | | | | |
| | 3235A | | | | | | |
| | 3235B | | | | | | |

0000728

0 2 L 9 8 3 4 3
LIFE EQUIPMENT
UNIT 2

Page 17

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|--------|----------|---------|---------------------------|--------------------|
| NANCI | Q2N23ZS3227A | Limit Switch | EA-180 | M S RM | 10 Yrs | 07/81 | 07/99 |
| | 3227B | | | | | | |
| | 3227C | | | | | | |
| | 3228A | | | | | | |
| | 3228B | | | | | | |
| | 3228C | | | | | | |
| | Q2N25ZS3772A | | EA-180 | M S RM | 18 Yrs | 07/81 | 07/99 |
| | 3772B | | | | | | |
| | 3772C | | | | | | |
| | Q2P13ZS2866B | | EA-180 | CTMT | 6.1 Yrs | 07/81 | 08/87 |
| | 2867B | | | | | | |
| | 3196 | | | | | | |
| | 3197 | | EA-180 | CTMT | 6.1 Yrs | 07/87 | 08/87 |
| | Q2P15ZS3103 | | | | | | |
| | 3765 | | | | | | |
| | 3766 | | | | | | |
| | 3179A | | | | | | |
| | 3179B | | | | | | |
| | 3179C | | | | | | |
| | 3180A | | | | | | |
| | 3180B | | | | | | |
| | 3180C | | | | | | |
| | 3104 | | | | | | |
| | 3181A | | | | | | |
| | 3181B | | | | | | |
| | 3181C | | | | | | |
| | Q2P17ZS3184 | | EA-180 | CTMT | 6.1 Yrs | 07/81 | 08/87 |
| | 3443 | | | | | | |

0060773

0 2 LIMITED LIFE EQUIPMENT UNIT 2

Page 18

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|--------------|-------|----------|----------------|---------------------------|--------------------|
| Rosemount | M2B13TE412B | RTD | 176KF | CTMT | 10 Yrs | 07/81 | 07/91 |
| | 412D | | | | | | |
| | 422B | | | | | | |
| | 422D | | | | | | |
| | 432B | | | | | | |
| | 432D | | | | | | |
| | M2B21TE410 | | 176KS | CTMT | Under Eval. | 07/81 | ---- |
| | 413 | | | | | | |
| | 420 | | | | | | |
| | 423 | | | | | | |
| | 430 | | | | | | |
| | 433 | | | | | | |

0000730

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--|--------------|------------|----------|--------|---------------------------|--------------------|
| Cable | Cable manufacturers are subject to change without notice. Cable is adequately identified by TPMS No. in the Equipment Master List. No maintenance activities are required. | | | | | | |
| G.E. | Q2152B001 | Penetration | 100 Series | CTMT | 40 Yrs | 07/81 | N/A |
| | B002 | | | | | | |
| | B005 | | | | | | |
| | B006 | | | | | | |
| | B007 | | | | | | |
| | B009 | | | | | | |
| | B010 | | | | | | |
| | B011 | | | | | | |
| | B012 | | | | | | |
| | B014 | | | | | | |
| | B015 | | | | | | |
| | B016 | | | | | | |
| | B017 | | | | | | |
| | B019 | | | | | | |
| | B020 | | | | | | |
| | B022 | | | | | | |
| | B023 | | | | | | |
| | B024 | | | | | | |
| | B025 | | | | | | |
| | B028 | | | | | | |
| | B030 | | | | | | |
| | B038 | | | | | | |
| | B040 | | | | | | |
| | B041 | | | | | | |
| | B042 | | | | | | |

0060731

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|-------------------|----------------|---------|----------|--------|---------------------------|--------------------|
| Joy Manuf | QZE12M001A | CTMT C Fan Str | Type P | CTMT | 40 Yrs | 07/81 | N/A |
| | M001B | | | | | | |
| | M001C | | | | | | |
| | M001D | | | | | | |
| | QZE19M001A | Mixing Fan Mtr | | | | | |
| | M001B | | | | | | |
| | M001C | | | | | | |
| | M001D | | | | | | |
| | QZE22M001A | Dilu Fan Mtr | | | | | |
| | M001B | | | | | | |
| Limitorque | QZE14MOV3318B | Mot. Valve Op. | SMB-000 | CTMT | 40 Yrs | 07/81 | N/A |
| | 3660 | | | | | | |
| | QZE21MOV8063A | | SMB-4 | CTMT | | | |
| | 8088B | | | | | | |
| | 8088C | | | | | | |
| | 8112 | | SMB-00 | | | | |
| | QZE22MOV3872A | | SMB-00 | | | | |
| | 3872B | | | | | | |
| | QZE23MOV3528A | | SMB-000 | CTMT | | | |
| | 3528B | | | | | | |
| | 3528C | | | | | | |
| | 3528D | | | | | | |
| | 3530 | | SMB-00 | | | | |
| | 3536 | | | | | | |
| | 3835A | | SMB-000 | | | | |
| | 3835B | | | | | | |
| | Q2M21MOV3232A | | SMB-4T | M S RM | | | |
| | 3232B | | | | | | |
| | 3232C | | | | | | |
| | Q2M23MOV3350A | | SMB-1 | M S RM | | | |
| | 3350B | | | | | | |
| | 3350C | | | | | | |
| | Q2P16MOV3131 | | SMB-00 | CTMT | | | |
| | 3441A | | | | | | |
| | 3441B | | | | | | |
| | 3441C | | | | | | |
| | 3441D | | | | | | |
| | Q2P17MOV3046 | | SMB-00 | CTMT | | | |

0060732

0 240-YEAR LIFE EQUIPMENT
UNIT 2

Page 21

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--------------------|---------------------------------------|----------|----------|--------|---------------------------|--------------------|
| States Co | 121B001 | Terminal Block and Junction Box | Type ZWM | CTMT | 40 Yrs | 07/81 | N/A |
| | B002 | | | | | | |
| | B003 | | | | | | |
| | B004 | | | | | | |
| | 221B001 | | | | | | |
| | B002 | | | | | | |
| | B003 | | | | | | |
| | B004 | | | | | | |
| | B004 | | | | | | |
| | B005 | | | | | | |
| | 321B001 | | | | | | |
| | B002 | | | | | | |
| | A21B007 | | | | | | |
| | B034 | | | | | | |
| | B21B025 | | | | | | |
| | Q2152B025 | | | | | | |
| | Q2B13G001-B | | | | | | |
| | Q2B13SV2213A-A/JB | | | | | | |
| | 2213B-B/JB | | | | | | |
| | 2214A/JB | | | | | | |
| | 2214B-B/JB | | | | | | |
| | N2B31SV0444BA-B/JB | | | | | | |
| | 0445AA-A/JB | | | | | | |
| | 8047-B/JB | | | | | | |
| | N2C22SV0478A-A/JB | | | | | | |
| | 488A-A/JB | | | | | | |
| | 498A-A/JB | | | | | | |
| | Q2E12SV3999A-A/JB | | | | | | |
| | 3999B-B/JB | | | | | | |
| | N2E21SV8149AA-A/JB | | | | | | |
| | 8149BA-A/JB | | | | | | |
| | 8149CA-A/JB | | | | | | |
| | 8871-A/JB | | | | | | |
| | N2G21SV1003A-A/JB | | | | | | |
| | 3376B-B/JB | | | | | | |
| | 7126-A/JB | | | | | | |

0060733

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--------------------|---------------------------------------|----------|----------|--------|---------------------------|--------------------|
| States Co. | Q2N12SV3368AA-A/JB | Terminal Block and Junction Box | Type ZWM | M S RM | 40 Yrs | 07/81 | N/A |
| | BA-A/JB | | | | | | |
| | CA-A/JB | | | | | | |
| | 3369AA-A/JB | | | | | | |
| | BA-A/JB | | | | | | |
| | CA-A/JB | | | | | | |
| | 3370AA-B/JB | | | | | | |
| | BA-B/JB | | | | | | |
| | CA-B/JB | | | | | | |
| | 3976A-B/JB | | | | | | |
| | B-B/JB | | | | | | |
| | C-B/JB | | | | | | |
| | Q2N12SV3234A-A/JB | | | M S RM | | | |
| | B-B/JB | | | | | | |
| | 3235A-A/JB | | | | | | |
| | B-B/JB | | | | | | |
| | Q2N23SV3227AA-A/JB | | | M S RM | | | |
| | BA-A/JB | | | | | | |
| | CA-A/JB | | | | | | |
| | 3228AA-A/JB | | | | | | |
| | BA-A/JB | | | | | | |
| | CA-A/JB | | | | | | |
| | Q2N25SV3772A-A/JB | | | M S RM | | | |
| | B-A/JB | | | | | | |
| | C-A/JB | | | | | | |
| | Q2P13SV2866B-B/JB | | | CTMT | | | |
| | 2867B-B/JB | | | | | | |
| | 3196-B/JB | | | | | | |
| | 3197-B/JB | | | | | | |
| | Q2P15SV3103-A/JB | | | CTMT | | | |
| | 3104-A/JB | | | | | | |
| | 3179A-A/JB | | | | | | |
| | B-A/JB | | | | | | |
| | C-B/JB | | | | | | |
| | 3180A-A/JB | | | | | | |
| | B-A/JB | | | | | | |
| | C-B/JB | | | | | | |
| | 3181A-A/JB | | | | | | |
| | B-A/JB | | | | | | |

0000734

0000734

U 2 40 YEAR FIRE EQUIPMENT

Page 23

| MANUFACTURER | PLANT I.D. NUMBER | GENERIC NAME | MODEL | LOCATION | LIFE | DATE INSTAL MONTH/YEAR | MAINT. MONTH/YR |
|--------------|--|---------------------------------------|----------|----------|--------|---------------------------|--------------------|
| State | Q2P155V3181C-A/JB 3765-A/JB 3766-A/JB Q2P175V3184-B/JB 3443-A/JB | Terminal Block and Junction Box | Type ZWM | M 5 RM | 40 Yrs | 07/81 | N/A |
| Victoreen | Q2D21RE0027A-A 0027B-B | Rad. Det. | B77-1 | CIMT | 40 Yrs | 07/81 | N/A |
| Westinghouse | Q2E17G001A G001B | H2 Recomb. Htr | Type A | CIMT | 40 Yrs | 07/81 | N/A |

0000736

APPENDIX U

PREVENTIVE MAINTENANCE SPECIFICATIONS

1855

02992

2
7
4

LIST OF EFFECTIVE PAGES

0000707

[illegible]

0299, 1858

Attachment 2
Preventive Maintenance Requirement

0000738

40-Year Life Equipment

Equipment: States terminal blocks; Type ZMW
Limitorque motor operators; SMB-00, -000, -1, -4, -4T
General Electric penetrations; 100 series
Westinghouse hydrogen recombiners; Type A
Joy Manufacturing containment cooler fan motors; Type P
Victoreen radiation detectors; model 877-1.

Requirement: No environmental qualification preventive
maintenance activities are required.

Limited Life Equipment

Rosemount RTD's; 176KS and 176KF

Requirement: No environmental qualification preventive
maintenance activities are required.

NAMCO Limit Switches; EA-180

Requirement: Clean contacts, lubricate moving parts (lubrication
procedure EA-181-10160) and replace the following:

- Top cover gasket; EA-181-10102
- Bottom cover gasket; EA-181-10120
- Contact lever kit; EA-181-10130
- Contact block kit; EA-181-10140
- Boot kit; EA-181-10151
- Lever shaft and o-ring assembly kits; EA-181-10170 (for
standard switches) or EA-181-10171 (for short travel switches;
EA-180-X4302, -X5302, -X6302)

See the attached NAMCO maintenance instructions Tables 1 and 2 of
"Environmental Qualification Surveillance" provide the frequency
for these maintenance activities.

NAMCO Limit Switches: EA-740

Requirement: Clean contacts, lubricate moving parts (lubrication
procedure EA-749-20019) and replace the following:

02993 1857

Preventative Maintenance Requirements
Page 2

0000739

- Top cover gasket kit; EA-749-20021
- Bottle gasket kit; EA-749-20026
- Contact roller kit; EA-749-20032
- Contact block kit; EA-749-20036
- Boot and retaining ring kit; EA-749-20042

See the attached NAMCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for these maintenance activities.

ASCO Solenoid Valves: NP8316, NP8320, NP8321, 206-381

Requirements: Replace the coil, all resilient parts and manual operator assembly (optional feature). To order spare part kits, coils and manual operator assemblies, specify the valve catalog number, serial number and voltage. See attached ASCO maintenance instructions. Tables 1 and 2 of "Environmental Qualification Surveillance" provides the frequency for the maintenance activities.

Indeterminate Life Equipment

Equipment: Barton transmitters; models 763 and 764
Foxboro transmitters; models E11GM (MCA) and E13DM
GEMS Delaval transmitters; XM-36495
GEMS Delaval level sensor; XM-54854
GEMS Delaval level switch; LS-36497
Target Rock solenoids; 79AB001.

Requirement: The qualified life and environmental qualification preventive maintenance activities will be determined following the completion of ongoing qualification tests of analogous or similar equipment and subsequent evaluation of test results.

029931858