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ENGINEERING and MANAGEMENT SERVICES

CLEVELAND ELECTRIC ILLUMINATING COMPANY
PERRY NUCLEAR POWER PLANT
UNITS 1 AND 2

ENVIRONMENTAL QUALIFICATION OF
HARSH ENVIRONMENT
SAFETY-RELATED MECHANICAL EQUIPMENT

SUMMARY REPORT

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SAFETY RELATED MECHANICAL EQUIPMENT
QUALIFICATION PROGRAM

1.0 INTRODUCTION

This document describes the program developed for the environmental qualification of the Perry Nuclear Power Plant (PNPP) safety-related mechanical equipment located in a harsh environment. The Mechanical Equipment Qualification (MEQ) Program was developed to comply with the requirements of 10CFR50, Appendix A, General Design Criteria (GDC) 4, "Environmental and Missile Design Basis". GDC-4 requires, in part, that all equipment important to safety be designed to accommodate the environmental effects of postulated accidents including Loss of Coolant Accidents (LOCA).

Safety-related Class 1E electrical equipment qualification requirements are embodied in 10CFR50.49 and described in NUREG-0588¹ and proposed revision 1 to Regulatory Guide 1.89². These documents used in conjunction with industry standards (eg. IEEE-323, 383, and others) provided a basis and guidance for implementation of the electrical equipment qualification program.

1 Szukiewicz, A. J. "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment", Revision 1, July, 1981.

2 "Environmental Qualification of Electrical Equipment Important to Safety for Light-Water-Cooled Nuclear Power Plants", proposed Revision 1 to Regulatory Guide 1.89.

In order to demonstrate compliance with GDC-4 of Appendix A to 10CFR50 for safety-related mechanical equipment, The Cleveland Electric Illuminating Company (CEI) implemented an MEQ Program which included the following elements:

- 1) Identification of safety-related mechanical equipment located in harsh environment areas, including required operating time (performed by CEI).
- 2) Identification of the non-metallic subcomponents of this equipment.
- 3) Identification of the environmental conditions under which this equipment must operate.
- 4) Identification of non-metallic material capabilities.
- 5) Evaluation of environmental effects on equipment operability.

To satisfy these elements, the Perry Nuclear Power Plant (PNPP) MEQ Program consists of six (6) major activities. These activities are:

- 1) Review Equipment Qualification Review List (EQRL) to define equipment in harsh/mild environments.
- 2) Review Process and Instrumentation Diagrams (P&ID) and process radiation calculations to determine process parameters for equipment.
- 3) Review Safety-Related Parts Limited Life Components List (SRPL) and vendor drawings to identify non-metallic safety-related components.
- 4) Review environmental zone summary sheet data for environmental parameters for equipment specific applications.

- 5) Record equipment specific environmental and process parameters for normal and accident service conditions in Appendix A's and evaluate equipment performance.
- 6) Prepare auditable file including supporting documentation and maintenance and surveillance sheets.

A description of these activities, and the methodology are contained in Section 2.0. The format and content of the MEQ Summary Sheets is presented in Section 3.0. Section 4.0 describes the maintenance and surveillance program for MEQ.

2.0 MEQ PROGRAM DESCRIPTION

The following sections describe the PNPP tasks, and methodology associated with the implementation of the MEQ Program.

2.1 Review EQRL (EQRL provided by PNPP)

In order to establish a complete list of safety-related mechanical equipment located in a harsh environment, it was first necessary to identify the safety-related systems and then each mechanical component within those safety-related systems which must perform safety-related functions during and after a postulated design basis accident. The systems were identified as those required to perform any of the following six (6) safety-related functions:

- 1) Emergency Reactor Shutdown
- 2) Containment Isolation
- 3) Reactor Core Cooling
- 4) Containment Heat Removal
- 5) Core Residual Heat Removal
- 6) Prevention of Significant Release of Radioactivity

2.2 Review of EQRL

The systems identified were:

<u>System Identification</u>	<u>System Name</u>
B21	Nuclear Boiler System
B33	Reactor Recirculation System

C11	Control Rod Drive Hydraulic System
C41	Standby Liquid Control System
D17	Plant Radiation Monitor System
E12	Residual Heat Removal System
E21	Low Pressure Core Spray System
E22	High Pressure Core Spray System
E32	MSIV Leakage Control System
E51	Reactor Core Isolation Cooling System
G33	Reactor Water Cleanup System
G41	Fuel Pool Cooling and Cleanup System
G42	Suppression Pool Drain & Cleanup System
G43	Suppression Pool Makeup System
G50	Liquid Radwaste System
G61	Liquid Radwaste Sump System
H51	Combustible Gas Control System
IP50	Gas Control System
IP51	Service Air System
IP52	Instrument Air System
IP54	Fire Protection System
IP57	Safety-Related Instrument Air System
IP86	Nitrogen Supply System
M14	Containment Vessel and Drywell Purge
M15	Annulus Exhaust Gas Treatment System
M16	Drywell Vacuum Relief System
M17	Containment Vacuum Relief System
M23	MCC, SWGR HVAC System
M24	Battery Room Exhaust System
M25	Control Room HVAC System
M26	Control Room Emergency Recirculation System
M28	ECCP Area Cooling System
M32	Emergency Service Water Pump House Vent System

M36	Off Gas Building Exhaust System
M39	ECCS Pump Room Cooling System
M40	Fuel Handling Building Ventilation System
M43	Diesel Generator Building Vent System
M51	Combustible Gas Control System
N11	Main and Reheat Steam System
N22	Main/Reheat/Extraction Drain System
N27	Feedwater System
P11	Condensate Transfer and Storage System
P22	Mixed Bed Demineralization and Distribution
P41	Service Water System
P42	Service Water System
P45	Emergency Service Water System
P47	Control Complex Chilled Water System
P49	Emergency Service Water Screen Wash
R43	Standby Diesel Generator
R45	Diesel Gen Fuel Oil System
R46	Diesel Gen Jacket Water Cooling
R47	Diesel Gen Lube Oil System

In addition, equipment providing support functions such as lubrication, cooling and pipe or equipment physical supports were considered.

Once the list of systems was identified, each system P&ID and other design documents were reviewed to identify and physically locate all safety-related mechanical equipment that is exposed to a harsh environment. Environmental and process data were extracted and tabulated in Tables 1.0 and 2.0, respectively.

2.3 Review - SRPL and Vendor Documentation

Equipment categorized as 2A or 2B was then reviewed against vendor component drawings and manufacturer's technical manuals to identify non-metallic parts. Metallic parts are not listed since the effects of the postulated accident environments, such as temperature, pressure and radiation, are considered to be negligible. The non-metallic parts were identified and categorized in accordance with Table 3.0. Throughout the safety-related system list development, mechanical equipment identification, and subcomponent listing tasks, the results were verified by independent reviews of ensure correctness and completeness.

TABLE 1.0

PERRY NUCLEAR POWER PLANT
MECHANICAL EQUIPMENT QUALIFICATION
ENVIRONMENTAL ZONE SUMMARY SHEET
(HARSH ONLY)

[MAXIMUM VALUES]

ZONE	DESCRIPTION	TEMPERATURE (°F)	RADIATION (RADS)
AB-2	LPCS, HPCS, Pump Rooms	154(5)	3.0E07Y/N/A(6)
AB-3	RCIC Turbine and Pump Room	155	3.0E07Y/N/A(7)
AB-4	RHR Pump Room	160(9)	4.1E07Y/N/A(8)
AB-5	RWCU Pump Room	221(11)	1.1E07Y/N/A(10)
AB-6	Corridor for ECCS Rooms	105	1.88E03Y/N/A(12)
AB-7	Steam Tunnel	310(14)	1.72E07Y/N/A(13)
AB-8	Containment Penetration Pipe Chase	136	9.5E06Y/N/A(15)
AB-9	Corridors for ECCS Pump Rooms	196(11)	1.88E03Y/N/A(12)
CT-0	Containment Annulus	150	1.6E07Y/2.0E05 B
CT-1	Above Refueling Floor	184.6	4.2E07Y/1.1E08 B
CT-2	Immediately Above Suppression Pool	184.6	1.8E07Y/1.1E08 B
CT-3	HCU Floor	184.6	1.8E07Y/1.1E08 B
CT-4	SLCS Area	184.6	1.8E07Y/1.1E08 B
CT-5	RWCU Rooms	184.6	1.8E07Y/N/A(1)
CT-6	Steam Tunnel	224	1.3E07Y/1.1E08 B(2)
CT-7	SLCS Area (w/Containment Spray)	184.6	1.8E07Y/1.1E08 B
CT-8	Adjacent Areas RWCU Rooms	184.6	1.8E07Y/1.1E08 B
DW-1	Outside RPV Shield	330	2.7E08Y/2.9E08 B(1)
DW-2	Outside RPV Shield (Core &)	330	2.7E08Y/2.9E08 B(3)
DW-3	Under RPV	330	2.7E08Y/2.9E08 B(4)
DW-4	Drywell Dome	330	2.7E08Y/2.9E08 B(1)
DW-5	RPV Skirt	330	2.7E08Y/2.9E08 B(1)
FB-3 (19)	Below Operating Floor	150	1.30E03Y/N/A(12)
FB-6	Fuel Bldg. Pipe Chase	135(5)	5.2E06Y/N/A(16)
FB-7	AEGTS Area	163(5)	7.37E05Y/N/A(12)
FB-8	Exhaust Filter Room	130(5)	1.52E06Y/N/A
TB-1	Steam Line Under HP Turbine	310(17)	3.0E06Y/N/A(19)
TB-2	Heater Bay Outside Shield Wall	212(17)	1.16E03Y/N/A(12)(18)
TB-3	Turbine Bldg. West End	212(17)	1.16E03Y/N/A(12)(18)

Notes:

- | | |
|--|---|
| (1) Normal 40 year dose of 2.8E07 | (11) Temperature based on RWCU line break |
| (2) Normal 40 year dose of 1.6E06 | (12) Includes 40 years normal dose of 8.8 EL |
| (3) Normal 40 year dose of 4.5E07 | (13) Normal 40 year dose of 3.0E06 |
| (4) Normal 40 year dose of 2.0E06 | (14) Temperature based on MSLB in AB-7 |
| (5) Temperature based on loss of HVAC data | (15) Normal 40 year dose of 7.75E06 |
| (6) Normal 40 year dose of 6.2E05 | (16) Normal 40 year dose of 9.4E06 |
| (7) Normal 40 year dose of 9.4E03 | (17) Temperature dated on MSLB |
| (8) Normal 40 year dose of 3.0E05 | (18) Includes accident dose of 2.8E02 |
| (9) Temperature based on RCIC line break | (19) EQPM Appendix A, Page 4 of 42 indicates FB-3 to be a mild environment. |
| (10) Normal 40 year dose of 2.5E06 | |

TABLE 2.0

PROCESS PARAMETERS
FOR
PERRY NUCLEAR PLANT
MECHANICAL EQUIPMENT QUALIFICATION PROGRAM(1)

SYSTEM P&ID NO.	TEMPERATURE (°F)	PRESSURE (PSIG)	RADIATION (TID)
MSS (N11) 302-011	545	970	6.3E06 β /2.1E08 β
FW (N27) 302-082	424	1141.8	4.044E07 β /3.3E07 β
CT SIS (P11) 302-102	135	130	N/A
[Drains] (N22) 302-121	540	950	1.67E05 β /2.1E08 β
SWS (P41) 302-212	95	100	N/A
SCWS (P49) 320-214	80	105	N/A
SAD (P51) 302-242 (302-241)	110	120	N/A
IA (P52) 302-243 (302-241)	110	120	N/A
SR-IA (P57) 302-271	150	2500	N/A
MSIV-LCS (E32) 302-341 (320-341)	575	1250	3.13E05 β /2.1E08 β
MSIV-LCS (E32) 302-342 (320-342)	575	1250	3.13E05 β /2.1E08 β
SDGSA (R44) 302-351	100	250	N/A
SDGFO (R45) 302-352	100	73	N/A
SDGLO (R47) 302-353	185	70	N/A
SDGJW (R46) 302-354	175	43	N/A
SDGEIC (R48) 302-355	850	13 PSIA	N/A
HPCSDGS (R45) 302-356	100	73	N/A
RWRS (B33) 302-601 (320-601)	575	1550	1.23E08 β /3.3E07 β
RWRS (B33) 302-602 (320-602)	575	1550	1.23E08 β /3.3E07 β
RWRS (B33) 302-603 (320-601)	575	1550	1.23E08 β /3.3E07 β
RWRS (B33) 302-604 (320-602)	575	1550	1.23E08 β /3.3E07 β
NBS (B21) 302-605 (320-605)	575	1250	1.3E08 β /3.3E07 β
NBS (B21) 302-606 (320-606)	575	1250	1.3E08 β /3.3E07 β
NCCS (P43) 302-613	110	93	N/A
ECCS (P42) 302-621 (302-623)	110	115	N/A
ECCS (P42) 302-622 (302-623)	110	115	N/A
RCIC (E51) 302-631 (320-631)	575	1525	2.05E06 β /3.25E05 β
RCIC (E51) 302-632 (320-632)	575	1525	2.05E06 β /3.25E05 β
RHR (E12) 302-641 (320-641)	480	1250	7.053E07 β /3.3E07 β
RHR (E12) 302-642 (320-642)	480	1250	7.053E07 β /3.3E07 β
RHR (E12) 302-643 (320-643)	480	1250	7.053E07 β /3.3E07 β
FPC&CS (G41) 302-651	180	62	2.888E05 β /2.1E08 β
FPC&CS (G41) 302-654	180	116	2.888E05 β /2.1E08 β
FPC&CS (G41) 302-655	212	62	2.888E05 β /2.1E08 β
RWCS (G33) 302-671 (320-671)	575	1410	1.47E07 β /2.4E07 β
RWCS (G33) 302-672 (320-672)	575	1410	1.47E07 β /2.4E07 β
RWCFDS (G35) 302-675 (320-675)	150	1410	N/A
SPCS (G42) 302-681	90	85	4.5022E07 β /3.3E07 β
SPCS (G42) 302-686	180	50	4.5022E07 β /3.3E07 β
SLCS (C41) 302-691 (320-691)	575	1400	N/A
SLCS (C41) 302-692 (320-692)	150	5	N/A
HPCS (E22) 302-701 (320-701)	575	1575	7.0E07 β /3.3E07 β
LPCS (E21) 302-705 (320-705)	575	1250	7.053E07 β /3.3E07 β
MBDDS (P22) 302-713	85	80	N/A
LRWS (G50) 302-733	150	50	8.1E07 β /N/A

LRWS (G50) 302-735	150	65	8.1E07%/N/A
LRWS (G50) 302-737	70	80	8.1E07%/N/A
LRSS (G61) 302-739	150	100	1.328E07%/3.3E07 β
LRSS (G61) 302-740	100	55	1.328E07%/3.3E07 β
ALCS (P53) 302-761			N/A
ESWS (P45) 302-791 (302-793)	126	97	N/A
ESWS (P45) 302-792 (302-793)	126	97	N/A
CILRTS (E61) 302-811	100	100	N/A
CGCS (M51) 302-831	190	160	1.2059E05%/2.1E08 β
CGCS (M51) 302-832	330	22	1.2059E05%/2.1E08 β
CRD-HCU (C11) 302-871 (320-871)	280	2000	N/A
CRD-HCU (C11) 302-872 (320-872)	280	2000	N/A
CAMS (D23) 302-881			1.003E04%/2.1E08 β
NSS (P86) 302-950	100	2350	N/A
LDS (E31) 302-961			1.4E06%/3.3E07 β
LDS(E31) 302-962			1.4E06%/3.3E07 β
FWLCS (N27) 302-971	424	1100	4.044E07%/3.3E07 β
MSS (N11) 352-011	545	970	6.3E068%/2.1E08 β
NBS (B21) 352-605 (320-605)	575	1250	1.3E08%/3.3E07 β
ECCS (P42) 352-621 (352-623)	110	111	N/A
RHR (E12) 352-642 (Sheet 2) (320-642)	480	1250	7.053E07%/3.3E07 β
LPCS (E21) 352-705 (320-705)	575	1250	7.053E07%/3.3E07 β
CGCS (M51) 352-832			1.2059E05%/2.1E08 β
PRM (D17) 806-004	DW-1	N/A	DW-1
PRM (D17) 806-007	DW-1	N/A	DW-1
JPI () 814-609 (302-962)			N/A
CVDP (M14) 912-604	Applicable	Zone	Data Only
RBAEGS (M15) 912-605	Applicable	Zone	Data Only
VRS (M16) 912-606	135	0	2.8E05%/2.1E08 β
VRS(M17)912-606			2.937E05%/1.1E08 β
CRHVAC (M27) 912-607	Applicable	Zone	Data Only
EHVAC (M24) 912-609	Applicable	Zone	Data Only
CRHVAC (M26)912-610	Applicable	Zone	Data Only
ECCS COOL (M39) 912-616	Applicable	Zone	Data Only
FHA VENT (M40) 912-617	Applicable	Zone	Data Only
DGB VENT (M43) 912-619	Applicable	Zone	Data Only
O-GBE (M36) 912-622	Applicable	Zone	Data Only
ECCS COOL (M28) 912-623	Applicable	Zone	Data Only
ESW COOL (M32) 912-630	Applicable	Zone	Data Only
CCW (P47) 913-001	106	150	N/A
CCW (P47) 913-002	55	150	N/A
CVCW (P50) 913-003	55	150	N/A
FSW (P54) 914-003	70	125	N/A
FSCDX (P54) 914-005	0	300	N/A
HVAC () 931-201 (320-871)	280	2000	N/A

Notes:

- (1) The values presented in this table are system maximum values. Specific locations within a system may be lower. See individual qualification files for values used. Additionally, those systems that do not have a corresponding 320-XXX drawing reference, maximum operating data has been used in place of design data.

TABLE 3.0

MASTER MATERIALS LIST
(MML)

MML NO.	MATERIAL DESCRIPTION
001	UHMW Polyethylene
002	Viton (Fluoroelastomer)
003	Asbestos
004	Nordel
005	Kalrez
006	Asbestos/SS
007	Ethylene Propylene (Incl. EPT, EPDM)
008	Nitrile (Buna-N)
009	Silicone Rubber
010	Vespel (Polyimide)
010011	Neoprene
011012	Durametallic
012013	Teflon
013014	Kel-F
014015	Nylon
015016	Graphite (Grafoil)
016017	Filmite 7000
017018	Rubber
019	RTV
020	DOW 781
021	Grease
022	Plexiglass

2.4 Environmental Service Conditions

The accident scenarios considered in the MEQ Program are identical to those used to develop the harsh environment profiles for the Class 1E electrical equipment qualification program NUREG-0588 and 10CFR50.49 responses. Inside the primary containment, bounding environmental parameters were established by the NSSS Supplier (General Electric Company) by considering the most adverse parameters of the break spectrum of Loss of Coolant Accidents (LOCA's) and combining them to create the environmental envelop used for qualification.

High Energy Line Breaks (HELB) were used as the enveloping accident for equipment located in the secondary containment and main steam tunnel. The environmental zones and parameters are the same as those established for the Class 1E electrical qualification program. The parameters and their application to mechanical equipment qualification are discussed below.

2.4.1 Operating Time

If the results of the review of the non-metallic materials indicated that they were insensitive to the environmental stresses, internal or external, the overall equipment performance was considered to be demonstrated for the required time. All mechanical equipment requiring post accident qualification was qualified for 180 days.

2.4.2 Submergence and Spray

Safety-related mechanical equipment was evaluated, regardless of location, to determine the effects of submergence and spray on equipment operability. Equipment types determined to be susceptible to the effects of submergence or spray were individually evaluated for the actual equipment location and mounting orientation. The actual submergence level or potential for spray ingress to impact the safety-related (function) performance of the equipment was then considered. No equipment modification or relocation was required when the equipment functional analyses were completed.

2.4.3 Humidity

The effects of humidity were found, through industry testing and research, not to affect the performance of non-metallic materials in a significant manner. The non-metallic materials in mechanical equipment are, for the most part, used as seals and gaskets. It was, therefore, concluded that humidity considerations need not be addressed for each mechanical equipment type.

2.4.4 Pressure

The qualification of mechanical equipment, with respect to pressure, is a function of equipment design and is evaluated as part of the normal design process. Pressure has not been found to adversely impact the qualification of mechanical equipment.

2.4.5 Temperature

Thermal aging has been considered as a mechanism for degradation and has been evaluated for each non-metallic material which performs an essential function within safety-related mechanical equipment. .

2.4.6 Radiation

Non-metallic materials which perform essential functions within safety-related mechanical equipment have been evaluated to assess their performance and qualification with respect to radiation aging mechanisms.

2.4.7 Process Fluids

The effects of process fluids were considered for systems which contain, recirculate, or remove radioactive material from containment. During and after a design basis accident process fluid conditions (eg. temperature, pressure and radiation) may change. The change may result in the process fluid parameters becoming more severe than the external accident environment. The changes in these parameters were assessed in Table 2.0 and compared to the external accident environments provided in Table 1.0. The mechanical equipment qualification program parameters were established based on the most conservative values of temperature, pressure and radiation (either internal or external resulting from the postulated accidents. This review was performed to ensure the consideration of worst case conditions for qualification.

2.5 Evaluation of Safety-Related Mechanical Equipment

Following the equipment categorization, non-metallic material identification, and service conditions selection, an evaluation of the non-metallic materials in 2A/2B equipment was performed. Equipment functional evaluations were performed to determine the functional importance of non-metallic components within a safety-related piece of equipment. The functional analysis considered whether a component's failure could impact the overall safety function of the equipment. Components classified as safety-related were analyzed against their worst case environmental conditions. Non safety-related materials (ie. determined to have acceptable failure modes) were not analyzed further, however, the basis for the non safety-related determination was provided. This review included consideration of equipment performance characteristics and design specifications.

The analysis of safety-related non-metallic materials concentrated on thermal and radiation aging for normal and accident conditions. Temperature and radiation values assumed during normal operation were used in the analyses to establish or confirm vendor design life values. Linear regression analyses and similarity analyses, based on type tests of identical materials, were the analytical techniques utilized in the evaluation of the non-metallic material design life. The results of these analyses were used to establish maintenance and replacement requirements. Each non-metallic material was evaluated, at its end of design life condition, to determine the impact of post accident aging mechanisms on the component's ability to perform its intended function.

Supplementary information was compiled and evaluated for components for which qualification information either was not available or failed to envelop the qualification requirements. The additional information was prepared utilizing industry accepted analytical methods such as radiation reduction and surface temperature analyses to reduce environmental profiles or demonstrate localized service conditions.

Modification, relocation or replacement of non-metallic materials were considered for qualification of essential equipment for which the functional and/or analytical assessment did not support qualification.

Qualification files were prepared which summarize the qualification data for each safety-related mechanical equipment type.

2.6 Documentation

A Mechanical Equipment Qualification (MEQ) file has been established for each safety-related mechanical equipment type. The MEQ file provides all of the information necessary to determine the qualification status of the equipment. The file is comprised of engineering evaluation and summary forms, a maintenance and surveillance evaluation section, and the appropriate reference material (eg. analysis, as required).

The engineering evaluation and summary forms contain five (5) sections which describe the salient features of the review process.

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: _____
 File Revision: _____
 Date: ____/____/____

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer:

Model-Number(s):

Qualification Restrictions:

Justification for Interim Operation (if applicable):

Qualification Conclusion:

Prepared by: _____ Project Engineer	QA Approval by: _____ Roy A. Woeste QA Manager	Certificate of Compliance: I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided to DiBenedetto, Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me. _____ Dr. Charles R. Farwell, Jr. Director of Engineering and C.E.O.
Technical Review by: _____ William R. Kelly, Jr. Program Manager	Program Approval by: _____ Philip A. DiBenedetto Program Director	Registration P.E. No. 10163 State of North Carolina
Program Acceptance by: _____ Cleveland Electric Illuminating Company		Date _____ P.E. Stamp

DF-44

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: ___-___-___
 File Revision: ___-
 Date: ___/___/___

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer:
 Model-Number(s):
 Non-Metallic Materials:

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRM PAGE NUMBER
Radiation			
Temperature			
Pressure			
Chemical Spray			
Humidity			
Other:			

Notes:

DFH

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: ___-___-___
File Revision: ___-
Date: ___/___/___

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

DF-44

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: ___-___-___
File Revision: ___-
Date: ___/___/___

MECHANICAL EQUIPMENT QUALIFICATION

ENVIRONMENTAL QUALIFICATION
MAINTENANCE AND SURVEILLANCE

DRAW PAGE NUMBER (M & S ITEMS)	SCHEDULE	BASIS

DFH

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: _ _ - _ - _

File Revision: _ -

Date: _ / _ / _

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION REVIEW WORKSHEET

Equipment Tag Numbers:

Vendor Model Numbers :

Equipment Category : A ____, B ____ (NUREG-8588, Appendix E)

Equipment Location : Inside Drywell _____

Outside Drywell _____

Limiting Zone or P&ID Number _____ Radiation
 _____ Temperature

Non-Metallic Material:

ENVIRONMENTAL PARAMETERS	REQUIRED	DEMONSTRATED	REFERENCE
Temperature: Environmental Process			
Radiation : Environmental			
Pressure : Environmental Process			
Chemical Effects : Environmental (Spray) Process (Internal)			
Humidity : Environmental			
Other:			

DFH

The maintenance and surveillance evaluation section discusses the engineering assessment performed to determine the need for non-metallic material replacement.

All reference material used to support qualification is provided in the file following maintenance and surveillance. References include test reports (if applicable), supporting analyses, manufacturer technical references, and the vendor drawings used in the equipment evaluation.

4.0 MAINTENANCE AND SURVEILLANCE

In support of the Mechanical Equipment Environmental Qualification Program, the Perry Nuclear Power Plant and Surveillance Program is intended to provide the following:

- To verify the design life of equipment previously established through test and/or analysis
- To provide for periodic maintenance based on manufacturer recommendations and/or the results of environmental qualification reviews and/or analyses in order to maintain equipment qualification
- To provide for the replacement of equipment at or near its design life

The program will be applied to that equipment identified as safety-related mechanical equipment located in a harsh environment. The program will be integrated with existing plant programs in such a way that continued equipment qualification will be maintained.

Maintenance and Surveillance requirements, when other than routine, for the purpose of maintaining qualification are identified throughout the review process and are documented in the mechanical equipment qualification file.

5.0 QUALIFICATION SUMMARY

Form No. 1 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-001
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Anchor/Darling
Model-Number(s): Not Applicable
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones, defined herein, without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided to DiBenedetto, Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles B. Farwell, Jr.
Dr. Charles B. Farwell, Jr.
Director of Engineering


Program Acceptance by:

Cleveland Electric Illuminating Company

Registration P.E. No. 10763
State of North Carolina

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP610-20-001
 File Revision: 0
 Date: 05/05/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Anchor/Darling

Model-Number(s): N/A

Non-Metallic Materials: 1) NML 0003 Asbestos (John Crane 187-I Packing)
 2) NML 0006 Asbestos w/SS

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	GRW PAGE NUMBER
Radiation	1.03E08 Gamma (2)	1.0E11 Gamma	1
Temperature	575 F	800 F	2
Pressure	1575 PSI	(1)	-
Chemical Spray	N/A	-	-
Humidity	100% RH	-	-
Other:			

Notes: (1) All valves applied in high pressure service of 1575 PSI are ANSI 900# rated valves, fabricated with SA-216 WCB Steel which is allowed for service to 1640 PSI at 600 F.
 (2) This value represents the summation of 180 Total Integrated Dose for Gamma and Beta Radiation.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-001
File Revision: 0
Date: 06/06/84

MEDICAL EQUIPMENT QUALIFICATION

REFERENCES

- 1 - Rite Pak Packing, Crane Packing Company, Bulletin No. P-3823
- 2 - "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Company
- 3 - "Flexitallic Spiral Wound Gaskets Design Criteria," Flexitallic Gasket Company, Bulletin 171, 1979, Fourth Edition
- 4 - "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1787-3, Final Report

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-002
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Anderson-Greenwood

Model-Number(s): See Appendix A

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable


Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:
Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:
Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:
William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:
Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:
I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by *Farwell & Hendricks*. The engineering qualification has been reviewed and approved by me.
Charles R. Farwell
Dr. Charles R. Farwell
Director of Engineering and Construction


Program Acceptance by:

Cleveland Electric Illuminating Company

Registration P.E. No. 10163
State of North Carolina
Date 6/6/84 P.E. Stamp

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-28-002
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Anderson-Greenwood
Model-Number(s): See Appendix A
Non-Metallic Materials: NML 0005 - Kalrez
NML 0006 - Asbestos/SS

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	$2.7E08$ Gamma (1)	$3.0E08$ Gamma	1
Temperature	470 F	550 F	1
Pressure	570 PSIG	(2)	-
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

Notes: (1) Based on PY-6A1/CEI - 15568. Since the valve seal and gasket are not exposed directly to the Beta dose, adequate shielding is provided by the valve body to delete the Beta dose from consideration.

(2) The pressure retaining characteristics of seals and gaskets are functions of operating temperatures and dimensional accuracies. Functional testing of installed equipment provide assurance of proper dimension and fit. System functional testing provides performance data over the system operational temperature ranges.

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-002
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Dupont Kalrez Perfluoroelastomer Parts, Chemical and Fluid Resistance, November 1, 1981, Bulletin No. E-42789
2. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Company
3. "Flexitallic Spiral Wound Gaskets Design Criteria," Flexitallic Gasket Company, Bulletin 171, 1979 Fourth Edition
4. "Radiation Effects on Organic Materials in Nuclear Plants, EPRI RP 1707-3, Final Report
5. Kalrez Perfluoroelastomer Parts, Technical Literature, DuPont, Finishes and Fabricated Products Division and "Kalrez for Hot Water and Steam Service."
6. Kalrez Perfluoroelastomer Parts, "Seal Design Guide" January 13, 1980, Bulletin No. E-33808
7. Kalrez Perfluoroelastomer Parts, "...When You Can't Afford a Seal Failure.", Bulletin No. E-42783

Form No. 1 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: 59810-20-003
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturers: Atwood-Morrill

Model-Number(s): Not Applicable

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by Farwell & Hendricks. The qualification has been reviewed and approved by me.

Charles R. Farwell, Jr.
10163
Dr. Charles R. Farwell, Jr.
Director of Engineering

Technical Review by:

William R. Welley, Jr.

William R. Welley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Cleveland Electric Illuminating Company

Date 6/6/84 P.E. Stamp

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-003
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Atwood-Morrill
Model-Number(s): Not Applicable

Non-Metallic Materials: MML 0006 - Asbestos/SS (Gasket)
MML 0003/006 - Graphite and Asbestos with a Corrosion Resistant Zinc Additive
(Packing)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QAW PAGE NUMBER
Radiation	2.7E08 Gamma 2.9E08 Beta	1.5E09 Gamma	2
Temperature	575 F	800 F	1
Pressure	1250	(1)	-
Chemical Spray	—	—	-
Humidity	100% RH	—	-
Other:			

Notes (1) The pressure retaining characteristics of seals and gaskets are a function of operating temperature and dimensional accuracies. Functional checks of the installed seal assemblies (or gaskets) provide assurance of proper dimension. System functional testing provides performance data over the system operational temperature ranges.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-003
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Flexitallic Spiral Wound Gaskets Design Criteria", Flexitallic Gasket Company, Bulletin 171, 1979, Fourth Edition
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Products Company.
3. "Endless Packing Rings" John Crane, Crane Packing Company, Morton Grove, IL., Bulletin No. P-3010.
4. "Radiation Effects on Organic Materials in Nuclear Plants, EPRI, RP 1707-3 Final Report.
5. Technical Information Bulletin, Grafoil Packing for Valves in Nuclear Service - Grade 6TN, Union Carbide, Bulletin No. P-3001.
6. "Rite Pak Packing", Crane Packing Company, Bulletin No. P-3023.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP818-28-004
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturers: Bettis (Attached to Henry Pratt Valves)
Model-Number(s): T-428-SR2
Qualification Restrictions: None
Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Program Acceptance by:

Cleveland Electric Illuminating Company

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as reviewed by Philip A. DiBenedetto, Farwell & Hendrickson, Inc. The evaluation has been reviewed and approved by me.

Charles R. Farwell
Dr. Charles R. Farwell
Director



Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Numbers: SP818-28-004
 File Revisions: 0
 Date: 05/05/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Bettis (Attached to Henry Pratt Valves)
 Model-Number(s): T-428-SR2

Non-Metallic Materials:

Gasket: MNL # 003 - Asbestos
 Valve Seat: MNL # 007 - Ethylene Propylene
 O-Ring MNL # 007

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	4.2E07 Gamma (1)	1.0E08 Gamma	2, 3, 4
Temperature	184.6 F	250 F	2, 3, 4
Pressure	---	---	-
Chemical Spray	---	---	-
Humidity	100% RH	---	-
Other:			

Notes: 1) The effects of Beta radiation as specified in Appendix A have not been considered since adequate radiation shielding is provided by the actuator housing for the internal seals and gaskets.

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-004
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Non-metallic Gasket and Sheet Packing Handbook", Non-metallic and Sheet Packing Division, Fluid Sealing Association
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Products Company
3. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP 1707-3, Final Report
4. Parker Seals "Parker O-Ring Handbook" ORD-5700, March 1982, Page A3-4
5. Parker Laboratory Report, "An Investigation Into the Radiation Resistance of Selected Compounds, Report No. K18.063A, May 24, 1973
6. "Design Guide for Reactor Cover Gas Elastomeric Seals" Figure 57 of Page 81. Atomic International Division, Rockwell International, Report AI-AEC-13145
7. Parker Laboratory Report, "A Further Investigation Into the Radiation Resistance of Selected Compounds."
8. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP-1707-3, Final Report

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-085
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Bingham Willamette
Model-Number(s): 2 X 2 X 7-1/2, 6 X 6 X 10-1/2

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service as defined herein without restriction or exception.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste

Ray A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been completed in full accordance with the purchase order as prepared by Farwell & Hendricks. This qualification has been reviewed and approved by

Charles R. Farwell


Registration P.E. No. 10163
State of North Carolina

Date

6/6/84

P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-28-005
 File Revision: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: Bingham Willamette
 Model-Number(s): 2 X 2 X 7-1/2, 6 X 6 X 10-1/2

Non-Metallic Materials: Gasket: MML #006 - Asbestos/SS (Flexitallic)
 O-Ring: MML #007 - Ethylene Propylene (incl. EPT, EPDM)
 Gasket: MML #008 - Nitrile (Buna-N)
 Seal: MML #012 - Durametallic (Type PTD, EP)
 Gasket: MML #003 - Asbestos (Garlock)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	7.0E07 Gamma (1)	1.0E08	2, 3, 4
Temperature	185 F	225 F	3
Pressure	---	---	-
Chemical decay	---	---	-
Humidity	100% RH	---	-
Other:	-		

Notes: 1) The beta dose of 3.3E07 Rads has not been considered since all of the non-metallic materials are shielded by the metal housing of components in the pump assembly.

Form No. 3 Page 1 of 3

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-005
File Revisions: 0
Date: 06/06/84

MEDICAL EQUIPMENT QUALIFICATIONREFERENCES

1. "Flexitallic Spiral Wound Gaskets Design Criteria," Flexitallic Gasket Company, Bulletin 171, 1979 Fourth Edition
2. "Radiation Stability of Asbestos," Raybestos, Manhattan Industrial Company
3. Parker Seal Company, Parker O-Ring Handbook, March, 1982
4. The Effects of Nuclear Radiation on Elastomeric & Plastic Components and Materials, Radiation Effects Information Center, REIC No. 21, September, 1961, pp. 106-108
5. Installation, Operation, Maintenance Instructions for 6 X 6 X 10-1/2 Beta, 4 Stage Type CP, RCIC Pump, Materials of Construction, Addendum #2, Procedure No. E38.78
6. Durametallic Corporation Dwg. No. 2D-159431, PTO Mechanical Seal
7. Installation, Operation, Maintenance Instructions for 2 X 2 X 7-1/2 CAP, RHR, LCPC, and HP Core Spray Water Leg Pump, Contract Specific Material List Water Leg Pump, Specification No. SP-506

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-005
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

8. Gilbert Associates Drawing, "Residual Heat Removal System," Drawing No. 4549 D-320-643, Revision B with DSP-E12-1-4549-00, Table 1, System Design and Operating Conditions. Data Points 59, 60 for RHR Water Leg Pump
9. Gilbert Associates Drawing, "Low Pressure Core Spray System", Drawing No. 4549 D-320-785, Revision C with DSP-E21-1-4549-00, Table 1, System Design and Operating Conditions. Data Point 1.5 for LPCS Water Leg Pump
10. Gilbert Associates Drawing, "High Pressure Core Spray System," Drawing No. 4549 D-320-701, Revision C with DSP-E22-1-4549-00, Table 1, System Design and Operating Conditions. Data Point 18.5 for LPCS Water Leg Pump
11. Gilbert Associates Drawing, "Reactor Core Isolation Cooling system," Drawing No. 4549-D-320-631, Revision A with DSP-E51-1-4549-00, Table 1, System Design and Operating Conditions. Data Points 2 and 1A for RCIC Pump and RCIC Water Leg Pump, Respectively
12. "Radiation Effects on Organic Materials in Nuclear Plants" EPRI RP 1707-3, Final Report
13. "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, Report AI-AEC-13145

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-005
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

14. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1787-3, Final Report
15. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association.
16. Parker Seal Company, Laboratory Report, "An Investigation Into the Radiation Resistance of Selected Compounds," Report No. K18.063A, Dated May 24, 1973

Ferry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-006
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Borg-Warner
Model-Number(s): See Appendix A
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Program Acceptance by:

Cleveland Electric Illuminating Company

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the equipment's purchase order as provided by the manufacturer, Farwell & Hendrickson. The equipment evaluation has been reviewed and approved.

Charles R. Farwell, Jr.
SEAL
10163
Charles R. Farwell, Jr.
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-29-006
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Borg Warner
Model-Number(s): See Appendix A

Non-Metallic Materials: MNL 0006 - Asbestos/SS (Flexitallic Baskets)
MNL 0003 - Asbestos (John Crane 187-5 Packing)
MNL 0016 - Graphite (Grafoil or 1625GF Packing)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRM PAGE NUMBER
Radiation	2.7E88 Gamma 2.9E88 Beta	1.5E89	3
Temperature	545 F	800 F	1
Pressure	1127 PSIG	(1)	1
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

Notes: 1. The pressure retaining characteristics of seals and gaskets are a function of operating temperature and dimensional accuracies. Functional checks of the installed seal assemblies (or gaskets) provide assurance of proper dimension. System functional testing provides performance data over the system operational temperature ranges.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-006
File Revision: 6
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Endless Packing Rings," John Crane, Crane Packing Company, Morton Grove, IL, Bulletin No. P-3818
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Products Company
3. "Flexitallic Spiral Wound Gasket Design Criteria", Flexitallic Gasket Company, Inc. Bulletin 171, 1979 Fourth Edition
4. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP 1787-3, Final Report
5. "Rite Pak Packing," Crane Packing Company, Bulletin No. P-3823

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-007
File Revision: 0
Date: 05/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Byron Jackson
Model-Number(s): 380X

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This Equipment is qualified for service as defined in this report without restriction or exception.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Moeste

Roy A. Moeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer purchase order as provided by Dr. Charles R. Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.

Dr. Charles R. Farwell, Jr.
Director of Engineering



Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Cleveland Electric Illuminating Company

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-29-007
 File Revisions: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Byron Jackson
 Model-Number(s): 380X

Non-Metallic Materials: MML 0003 - Asbestos (Gasket)
 MML 0007 - Ethylene Propylene (incl. EPT, EPDM)
 MML 0016 - Graphite (Grafoil Bearing Insert & Gasket)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QW PAGE NUMBER
Radiation	7.0E07 Gamma (1)	1.0E08	2
Temperature	185 F	250 F	2
Pressure	—	—	-
Chemical Spray	—	—	-
Humidity	100% RH	—	-
Other:			

Notes: 1) The beta dose of 3.3E07 Rads has not been considered since all of the non-metallic materials are shielded by the metal housing or internal components of the pump assembly.

Form No. 3 Page 1 of 2

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-007
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Non-Metallic Gasket and Sheet Packing Handbook", Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Products Company
3. "Endless Packing Rings," John Crane, Crane Packing Company, Morton Grove, IL., Bulletin No. P-3810
4. Technical Manual for Vertical HPCS Pump, Type: 380X-190X-L12, Thirteen Stage VMT, Manual No. 8820VMT, IF-7821 (238 HPCS). Parts List and Materials of Construction 238 HPCS Procedure No. 1T-5867
5. Technical Manual for Vertical LPCS Pump, Type: 380X-200X-H4, Five Stage VMT, Manual No. 8820 VMT, IF-7780 (238 LPCS). Parts List and Materials of Construction 238 LPCS Pumps Procedure No. 1T-5839
6. Technical Manual for Vertical RHR Pumps (Not Provided)
7. Parker Seal Company, Laboratory Report, "An Investigation into the Radiation Resistance of Selected Compounds," Report No. K10.063A, Dated May 24, 1973

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP010-20-007
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

- 8) Gilbert Associates drawing, "Residual Heat Removal System," Drawing No. 4549 D-320-643, Revision B with DSP-E12-1-4549-00, Table 1, System Design and Operating Conditions. Data Points 4,55 for RHR Pump
- 9) Gilbert Associates Drawing, "Low Pressure Core Spray System," Drawing No. 4549 D-320-785, Revision C with DSP-E21-1-4549-00, Table 1, System Design and Operating Conditions. Data Point 2 for LPCS Pump
- 10) Gilbert Associates Drawing, "High Pressure core Spray System," Drawing No. 4549 D-320-781, Revision C with DSP-E22-1-4549-00, Table 1, System Design and Operating Conditions. Data Point 5 for HPCS Pump
- 11) "Radiation Effects on Organic Materials in Nuclear Plants" EPRI RP 1787-3, Final Report
- 12) "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, Report AI-AEC-13145
- 13) Parker Seal Company, Parker O-Ring Handbook, ORD-5700, March, 1984
- 14) Union Carbide Technical Information Bulletin, "Garfoil" Packing for Valves in Nuclear Service Grade GTN," Bulletin no. P-3001

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-008
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Carrier
Model-Number(s): 39ED15 & 39BA850

Qualification Restrictions:

Justification for Interim Operation (if applicable):

Qualification Conclusion:

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Acceptance by:

Cleveland Electric Illuminating Company

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by Farwell & Hendricks. The evaluation has been reviewed and approved by

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 F.E. Stamp



Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-000
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: Carrier

Model-Number(s): 39ED15 & 39BAR50

Non-Metallic Materials: MFL 0003 - Asbestos (Carrier 38NCS-1014 Gasket)
MFL 0008 - Nitrile (Buna-N) (Carrier/Linkbelt, Bearing)
MFL 0008 - Nitrile (Buna-N) (Carrier 28GMS-2001, O-Ring)
MFL 0003 - Asbestos (Carrier 28GS-3813-1, -3802-1, Gasket KMP)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	GRW PAGE NUMBER
Radiation	4.1E07 Gamma (1)	1.0E08	2, 3
Temperature	160 F (1)	225 F	2, 3
Pressure	0 PSIG	—	-
Chemical Spray	—	—	-
Humidity	—	—	-
Other:			

Notes: 1) Based on AB-4

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-28-000
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Installation - Startup and Service Instructions for Carrier 39E and 39B Air Handling Units Applicable to Perry Nuclear Power Plant Units 1 & 2, CEI P.O. #P-1127-5, Revision C
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Company
3. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP 1787-3, Final Report
4. "Non-Metallic Gasket and Sheet Packing Handbook", Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
5. The Effects of Nuclear Radiation on Elastomeric and Plastic Components and Materials, Radiation Effects Information Center, REIC No. 21, September, 1961, pp. 186-188
6. Parker Seal Company, Parker O-Ring Handbook, ORD-5700, March 1962
7. "Design Guide for Reactor Cover Gas Elastomeric Seals", Atomic International Division, Rockwell International, Report AI-REC-13145

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-009
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Circle Seal

Model-Number(s): N161-102, 1", 1/2"

Qualification Restrictions: See Qualification Conclusion

Justification for Interim Operation (if applicable): See Qualification Conclusion

Qualification Conclusion: This file will be completed when materials data is provided (See Appendix A).

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as prepared by R. Farwell & Hendrick. The engineering qualification has been reviewed and approved by

Charles R. Farwell
Dr. Charles R. Farwell
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP610-20-009
 File Revision: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: Circle Seal
 Model-Number(s): N161-100, 1", 1/2"
 Non-Metallic Materials: (1)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	1.8E07 Gamma	(1)	-
Temperature	1.1E08 Beta	(1)	-
Pressure	184.6 F	(1)	-
Chemical Spray	—	—	-
Humidity	—	—	-
Other:			

Notes: 1) This file will be completed when materials data is provided (See Appendix A).

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP618-28-009
File Revisions: 0
Date: 05/05/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

(1)

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-010
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Contromatic

Model-Number(s): W-2566-BB, W2566-CC, C-9922-CC, C-W2566-CC*, C-W2566-BB*, C-2522-BC-FS*

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

* Mild environment only (see Appendix B)

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Haynard, Jr.

Thomas M. Haynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided to Farwell & Hendricks. The evaluation has been reviewed and approved by me.

Charles R. Farwell
Dr. Charles R. Farwell
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-010
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Contromatics

Model-Number(s): W-2566-BB, W-2566-CC, C-9922-CC, C-42566-C*, C-42566-BB*, C-2522-BC-FS*

Non-Metallic Materials: MNL 0001-UHMW Polyethylene Seat/Seal
MNL 0002-Viton O-Ring
MNL 0003-Asbestos (John Crane 5810 Packing)

* Mild Environment Only (See Appendix B)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	4.5E07 Gamma	9.0E07 Gamma	1
Temperature	189 F (1)	250 F	1
Pressure	150 PSI (1)	---	-
Chemical Spray	N/A	---	-
Humidity	100% RH	---	-
Other: (3)			
Temperature (Ball Valves)	330 F	400 F	2

Notes: 1) The Contromatics Control Seal valves are all ANSI 150# rated valves.
2) The required values for ball valves are based on service as defined in Appendix D.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-010
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Thermal Stability of Polymers, RDT Conley, ed., Marcel Dekker, Inc. New York 1978, p.171
2. MIL-HDBK-700A, March 17, 1975, p.74
3. "How Radiation Affects Engineering Materials", M/DE Manual No. 173, Columbus, Ohio: Radiation Information Effects Center, Batelle Memorial Institute, July, 1968, p. 131
4. "The Engineering Properties of Viton Fluoroelastomer", Document No. E-46315
5. Conax Electrical Penetration Report, IPS-353.1, "Design Qualification Report for a Conax Instrumentation Service Classification Conductor Module."
6. Rite Pak Packing, Crane Packing Company, Bulletin No. P-3823
7. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Co.
8. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP 1787-3, Final Report
9. "Viton E-60-C-Long Term Compression Set Resistance", DuPont Data Sheet V-D-3-301

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-012
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Dresser
Model-Number(s): 5580M#7150M/7440M

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

* Also included in mild environment (see Appendix B)

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Russ A. Woeste
Russ A. Woeste
QA Manager

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer purchase order as provided by the contract of Farwell & Hendricks. This specific evaluation has been reviewed and approved by me.

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering



Program Acceptance by:

Cleveland Electric Illuminating Company

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-012
 File Revisions: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Dresser
 Model-Number(s): 5580W/7150W/7440W

Non-Metallic Materials: MML 0003 - Asbestos (Packing)
 MML 0006 - Asbestos/SS (Flexitallic Gasket)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	12.7E08 Gamma/ 12.9E08 Beta	1E11 Gamma	1, 2
Temperature	575 F	800 F	2
Pressure	2500 PSIG	(1)	2
Chemical Spray	---	---	-
Humidity	100% RH	---	-
Other:			

Notes: 1. The pressure retaining characteristics of seals and gaskets are a function of operating temperature and dimensional accuracy. Functional checks of the installed seal assemblies (or gaskets) provide assurance of proper dimension. System functional testing provides performance data over the system operational temperature ranges.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-012
File Revisions: 0
Date: 06/06/84

Mechanical Equipment Qualification

REFERENCES

1. "Flexitallic Spiral Wound Gaskets Design Criteria," Flexitallic Gasket Company, Inc. Bulletin 171, 1979 Fourth Edition
2. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Products Company
3. "Endless Packing Rings" John Crane, Crane Packing Co., Morton Grove, IL. Bulletin No. P-3810
4. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1787-3, Final Report
5. "Rite Pak Packing," Crane Packing Company, Bulletin P-3823

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-013
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Fisher

Model-Number(s): 667MS (Air-Operator), 4-Y5 (Valve)*

Qualification Restrictions: See Appendix A for maximum limits for active (Category 2A) Service

Justification for Interim Operation (if applicable): Not Applicable

* Mild environment only

Qualification Conclusion: This equipment is fully qualified up to the limits defined in this report for Category 2A applications.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchaser's purchase order as prepared by the purchaser, Farwell & Hendrick, Inc. The evaluation has been reviewed and approved by me.

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Charles R. Farwell
Dr. Charles R. Farwell
Director

Registration P.E. No. 10163
State of North Carolina

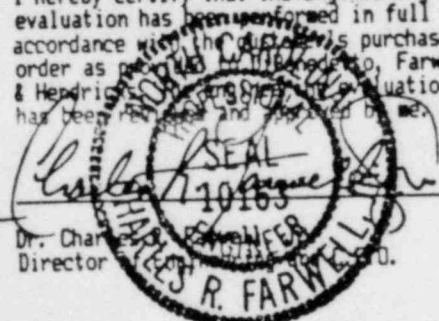
Program Acceptance by:

Cleveland Electric Illuminating Company

Date

6/6/84

P.E. Stamp



Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-013
 File Revision: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Fisher

Model-Number(s): 667NS (Air-Operators), 4-YS (Valve)*

Non-Metallic Materials: MML #008 - Diaphragm - Nitrile (FMS 17E44)
 MML #008 - O-Ring - Nitrile
 MML #008/003 - Gasket - Asbestos w/Nitrile (FMS 17B4)
 MML #016 - Packing - Graphite (FMS 17D19)
 MML #006 - Gasket - Asbestos/SS
 MML #016 - Piston Ring - Graphite (FMS 17F27)

* Mild Environment only

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	4.1E07 Gamma	1.0E08 Gamma	1, 2, 3
Temperature	160 F	225 F	1, 2, 3
Pressure	---	---	-
Chemical Spray	---	---	-
Humidity	100% RH	---	-
Other:			

Notes:

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-013
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Parker Seal Company, Parker O-Ring Handbook, March 1982
2. The Effects of Nuclear Radiation on Elastomeric & Plastic Components and Materials, Radiation Effects Information Center, REIC No. 21, September 1961, pp. 106-108
3. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
4. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Products Company
5. "Endless Packing Rings" John Crane, Crane Packing Company, Morton Grove, IL. Bulletin No. P-3018
6. "Flexitallic Spiral Wound Gasket Design Criteria," Flexitallic Gasket Company, Inc. Bulletin 171, 1979 Fourth Edition
7. Fisher Controls Type 667 Diaphragm Actuator Size 30-70 & 87 Instruction Manual, September 1980, Form 1203
8. "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, AI-REC-13145
9. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1707-3, Final Report
10. "Rite Pak Packing, Crane Packing Company, Bulletin No. P3023

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-014
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Giapel Machine works

Model-Number(s): P-2989

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste

Ray A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBeradetto

Philip A. DiBeradetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided to Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering
P. FARWELL, INC.

Registration P.E. No. 10163
State of North Carolina

Date: 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP610-20-014
 File Revision: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Gimpel Machine Works

Model-Number(s): P-2989

Non-Metallic Materials: NML #003 - Asbestos (Packing)
 NML #006 - Asbestos/SS (Flexitallic)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	3.0E07 Gamma	1E11 Gamma	1, 2
Temperature	575 F	800 F	2
Pressure	1525 PSIG	(1)	2
Chemical Spray	—	—	—
Humidity	100% RH	—	—
Other:			

Notes: 1. The pressure retaining characteristics of seals and gaskets are a function of operating temperature and dimensional accuracy. Functional checks of the installed seal assemblies (or gaskets) provide assurance of proper dimension. System functional testing provides performance data over the system operational temperature ranges.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-014
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Flexitallic Spiral Wound Gaskets Design Criteria," Flexitallic Gasket Company, Inc. Bulletin 171, 1979 Fourth Edition
2. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Products Company
3. "Endless Packing Rings," John Crane, Crane Packing Co., Morton Grove, IL. Bulletin No. P-3010
4. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1707-3, Final Report
5. "Rite Pak Packing, Crane Packing Company, Bulletin No. P3823

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-015
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: GFE Controls
Model-Number(s): LD240-339 & 337

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service requirements defined herein without restriction or exception.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been reviewed and approved in full accordance with the purchase order as provided by R. Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-015
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: GPE Controls

Model-Number(s): LD240-339 & -377

Non-Metallic Materials: NML 0007 - Ethylene Propylene (O-Ring, Pallet Seal Incl. EPT, EPDM)
NML 0009- Silicon Rubber (O-Ring, Pallet Seal)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	4.2E07 Gamma (1)	1.0E08 Gamma	1
Temperature	184.6 F	250 F	1
Pressure	---	---	-
Chemical Spray	---	---	-
Humidity	---	---	-
Other:	-		

Notes: 1. The postulated 180 day post accident beta dose of 1.1E08 Rads has not been considered since the non-metallic components are adequately shielded from the beta by the metallic valve housing and pallet.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-015
File Revision: 0
Date: 06/06/84

MEDICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, Report No. AI-AEC-13145
2. Parker Seal Company, Parker O-Ring Handbook, ORD 5700, March 1982
3. Parker Seal Company, Laboratory Report, "An Investigation into the Radiation Resistance of Selected Compounds," Report No. K10.063A, May 24, 1973
4. "Studies Identify Problems and Strengths of Collector Seals and Sealing Compounds," Solar Engineering, August 1981

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-016
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Hammer Lahl

Model-Number(s): V522F/A41AD, V522J/A41AG

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service as defined in this report without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as prepared by Farwell & Hendrick. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director

Technical Review by:

William R. Kelfey, Jr.

William R. Kelfey, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Date 6/6/84 P.E. Stamp

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-016
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Hammer Dahl

Model-Number(s): V522F/A41AD, V522J/A41AG

Non-Metallic Materials: MNL 0003 - Asbestos (Gasket)
MNL 0003 - Asbestos (Packing)
MNL 0008 - Nitrile (Buna-N Diaphragm)
MNL 0008 - Nitrile (Buna-N Packing)
MNL 0015 - Nylon (Packing)
MNL 0016 - Graphite (Grafoil Gaskets)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QAW PAGE NUMBER
Radiation	6.3E05 Gamma	6.0E06 Gamma	4
Temperature	104.6 F	185 F	4
Pressure	2000 PSIG	---	-
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

Notes: 1) The Scram Discharge Volume Vent Valve Non-Metallic have been considered non-safety related (NSR) based on the discussion provided in Appendix D. However for conservatism, the environmental qualification for this equipment has been based on 1 hour accident conditions.

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-016
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
2. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Products Company
3. Parker Seal Company, Parker O-Ring Handbook, March, 1984
4. The Effects of Nuclear Radiation on Elastomeric & Plastic Components and Materials Radiation Effects Information Center, REIC No. 21, September, 1961, pp. 106-108
5. "Endless Packing Rings," John Crane, Crane Packing Company, Morton Grove, IL. Bulletin No. P3810
6. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP-1707-3, Final Report
7. "Rite Pak Packing" Crane Packing Company, Bulletin No. P-3823
8. "Design Guide for Reactor Cover Gas Elastomeric Seals", Atomic International Division, Rockwell International, Report AI-AEC-13145
9. DuPont "Zyer Design Handbook", Document No. E-44971 (Page 60 for Temperature Limit, Page 50 for Aging Data)
10. "Union Carbide Technical Bulletin "Grafoil" Packing for Valves in Nuclear Service Grade GTN", Bulletin P-3001

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-017
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Henry Pratt
Model-Number(s): 1200 NRS

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service as defined in this report without restriction or exception.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste
Ray A. Woeste
QA Manager

Certificate of Compliance:

I hereby certify that the engineering evaluation has been completed in full accordance with the purchase order as approved by Charles R. Farwell & Hendrickson, Inc. The evaluation has been reviewed and approved by me.

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Charles R. Farwell
Dr. Charles R. Farwell
Director



Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Date 6/6/84 P.E. Stamp

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP610-20-017
 File Revisions: 0
 Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Henry Pratt
 Model-Number(s): 1200 NRS

Non-Metallic Materials: NML 0003 - Asbestos (Gasket)
 NML 0007 - Ethylene Propylene (Incl. EPT, EPDM O-Ring & Seal)
 NML 0007 - Ethylene Propylene (Incl. EPT, EPDM Stem Packing)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	4.2E07 Gamma	1.0E08 Gamma	2, 3
Temperature	184.6F	250 F	2, 7
Pressure	—	—	-
Chemical Spray	—	—	-
Humidity	—	—	-
Other:	-		

Notes: (1) The accident beta dose of 1.1E08 ratios has not been considered since all of the non-metallic materials are effectively shielded by the valve body.

Form No. 3 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-017
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Rite Pak Packing, Crane Packing Company, Bulletin No. P-3823
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Company
3. Installation and Service Manual, Nuclear Class Valves, Henry Pratt Company, GAI File No. 96-0275-0-01
4. "Radiation Effects on Organic Materials in Nuclear Plants", EPRI RP 1707-3, Final Report
5. Perry Nuclear Power Plant, "Polymer Degradation Study", EDS Report No. 02-0280-1126 (Applicable Sheets Attached)
6. "Design Guide for Reactor Cover Gas Elastomeric Seals", Atomic International Division, Rockwell International, Report AI-AEC-13145
7. Parker Seal Company, Laboratory Report, "An Investigation into the Radiation Resistance of Selected Compounds", Report No. K10.063A, Dated May 24, 1973
8. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
9. Parker Seal Company, Parker O-Ring Handbook, ORD-5700, March 1982

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP010-20-018
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Kerotest

Model-Number(s): See Appendix A

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These valves are qualified for use throughout the plant without exception or restriction as noted by the demonstrated values listed herein.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste
Ray A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by Farwell & Hendrick. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering


Program Acceptance by:

Cleveland Electric Illuminating Company

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-018
 File Revision: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Kerotest

Model-Number(s): See Appendix A

Non-Metallic Materials: #MPL 0010 - Vespel (Polyimide) (Seat Insert)

*See Appendix A for those valves equipped with the Vespel Seat Insert

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	2.7E08 Gamma 2.9E08 Beta 424 F	4.0E09 Gamma 500 F (3)	1 1 1
Temperature	1100 PSIG	(1)	-
Pressure	---	---	1
Chemical Spray	100% RH	(2)	
Humidity			
Other:			

Notes: (1) The pressure retaining characteristics of the valve seat are a function of operating temperature and dimensional accuracies. Both cold and hot functional testing will assure the proper performance of the valve seat material over the full range of expected system operations.

(2) Hydrolytic stability (full dimensional change) for a 100% RH environment (at 73F) will result in a maximum change of 0.5% or 0.005 in/in.

(3) From Appendix D, maximum required service for MPL # 001 is 330F.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-018
File Revision: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

- 1 - Exploring Vespel Territory, The Properties of Dupont Vespel Parts, Dupont Bulletin E-26800 (Figure 12 of Page 11 for Aging Data, Pages 3 and 10 for Temperature and Page 22 for Radiation Resistance).
- 2 - Piping System Diagram P57, Safety-Related Instrument Air System, D-382-271, Revision B.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-019
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Rockwell
Model-Number(s): See Appendix A
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These valves are qualified for use throughout the plant without exception as noted by the demonstrated values listed herein.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with ~~the~~ customer purchase order as provided by ~~the~~ Farwell & Hendricks. ~~The~~ qualification has been reviewed and approved.

Charles R. Farwell
Dr. Charles R. Farwell
Director of



Registration P.E. No. 10163
State of North Carolina

Date

6/6/84

P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP610-20-019
 File Revisions: 0
 Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Rockwell
 Model-Number(s): See Appendix A

Non-Metallic Materials: MNL #003 - Asbestos (Packing)
 MNL #003 - Asbestos
 MNL #005 - Kalrez (Valve Seat)
 MNL #016 - Graphite (Grafoil) (Packing & Gaskets)
 MNL #016 - Graphite (Gasket)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	2.7E08 Gamma (1)	3.0E08 Gamma	3
Temperature	540F	---	-
Pressure	2500 PSIG (2)	550 F	3
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

Notes: 1) The required radiation value does not consider the effects of beta since it is effectively attenuated by the metallic valve intervals.
 2) The pressure retaining characteristics of valve parts is verified during operational testing and system hot functional testing. These valve seals are also checked during operation.

Form No. 3 Page 1 of 1

Ferry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-28-019
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATIONREFERENCES

1. Rite Pak Packing, Crane Packing Company, Bulletin, No. P-3823.
2. "Radiation Stability of Asbestos", Raybestos Manhattan Industrial Company.
3. "Endless Packing Rings", John Crane, Crane Packing Company, Morton Grove, IL., Bulletin No. P-3818.
4. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic and Sheet Packing Division, Fluid Sealing Association.
5. "Fluoroelastomers - A Hot Topic in Detroit" By 3M. Technical Publication Presented at the Akron Rubber Group Technical Symposium. January 24, 1980
6. "Viton E-68C-Long Term Compression Set Resistance," DuPont Bulletin V-D-3-301
7. Kalrez Fluoroelastomer Parts, Technical Literature, DuPont, Finishes & Fabricated Products Division and "Kalrez for Hot Water and Steam Service"
8. Kalrez Perfluoroelastomer Parts, Seal Design Guide, January 30, 1980, Bulletin No. E-33888
9. Kalrez Perfluoroelastomer Parts, "...When You Can't Afford a Seal Failure." Bulletin No. E-42783
10. Kalrez Perfluoroelastomer Parts, "Chemical and Fluid Resistance," November 1, 1984, Bulletin No. E-42789
11. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1707-3, Final Report
12. "Union Carbide Technical Bulletin "Grafoil" Packing for Valves in Nuclear Service - Grade 6TN" Bulletin No. P-3001

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-28-020
File Revisions: 0
Date: 05/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Target Rock
Model-Number(s): See Appendix A
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment has been qualified by type test as part of the electrical equipment qualification program.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided to the customer by well & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell
Dr. Charles R. Farwell
Director of Engineering
SEAL
REGISTERED PROFESSIONAL ENGINEER
R. FARWELL

Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Cleveland Electric Illuminating Company

Date 6/6/84 P.E. Stamp

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-020
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: Target Rock
Model-Number(s): See Appendix A

Non-Metallic Materials: NML #007 - Ethylene Propylene (O-Rings)
NML #009 - Silicone Rubber (O-Rings)
NML #006 - Asbestos/SS (Flexitallic Gaskets)
NML #003 - Asbestos (Gaskets)
NML #003/016 - Asbestos (John Crane 187-1) with Graphite (John Crane 1625GF, Grade 6TN) Packing

ENVIRONMENTAL LIMITATIONS (2)

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	1.8E07 Gamma/ 1.1E08 Beta	1.5E09 Gamma	5
Temperature	575 F	650 F	3
Pressure	1400 PSIG	—	—
Chemical Spray	—	—	—
Humidity	100% RH	—	—
Other:			

- Notes: 1) The O-Rings have been specifically addressed in the electrical qualification program and appropriate maintenance and/or replacement intervals are established therein (see Reference 1)
2) The environmental limitations table has been developed for gaskets and packing only. For O-Ring qualification consult electrical qualification program (Reference 1)

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-020
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Target Rock Corporation Qualification Test Report Aging, Seismic, and Accident Simulation Test of Target Rock Corporation 1" Solenoid Valve; Model 77CC-001 (Modified per SK 4017) per Requirements of IEEE 323-1974, 344-1975, and 382-1972 Standards (PNPP SP810-20-535)
2. Flexitallic Spiral Wound Gaskets Design Criteria, "Flexitallic Gasket Company, Bulletin 171, 1979 Fourth Edition
3. "Radiation Stability of Asbestos," Raybestos Manhattan Industrial Company
4. "Radiation Effects on Organic Materials in Nuclear Plants," EPRI RP 1707-3, Final Report
5. "Non-Metallic Gasket and Sheet Packing Handbook," Non-Metallic Gasket and Sheet Packing Division, Fluid Sealing Association
6. "Endless Packing Rings," John Crane, Crane Packing Company, Morton Grove, IL. Bulletin No. P-3010
7. Union Carbide, Technical Information, "Grafoil-Packing for Valves in Nuclear Service - Grade 6TN," Bulletin P-3001
8. "Rite Pak Packing," Crane Packing Company, Bulletin No. P-3023

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-021
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Techno
Model-Number(s): DM40 F8550; IM15 F 0513 A, B
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service conditions as specified in this report without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the manufacturer's purchase order as provided by the manufacturer. Farwell & Hendricks, Inc. has been notified and its approval has been received and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Form No. 1 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP618-28-822
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: TRW Mission
Model Number(s): See Appendix A
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These valves are qualified for service as listed by the qualification parameters defined in this report.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste
Roy A. Woeste
QA Manager

Technical Review by:

William R. KeVley, Jr.
William R. KeVley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as prepared by Farwell & Hendrick. The engineering qualification has been reviewed and approved by me.

Charles R. Farwell
Dr. Charles R. Farwell
Director of Engineering

Registration P.E. No. 18163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-021
 File Revision: 0
 Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Techno

Model-Number(s): See Appendix A

Non-Metallic Materials: NML 0011 - Neoprene (Housing Gasket)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	7.37E05 Gamma	5.0E07 Gamma	1
Temperature	150 F (1)	300 F	1
Pressure	—	—	—
Chemical Spray	—	—	—
Humidity	—	—	—
Other:			

Notes: 1) See Note 1 of Appendix A.

DFH

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-021
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "The Prediction of Shelf Storage Life in Rubber from Accelerated Heat Aging Tests, Part 2 - Stress Relaxation Tests." D.K. Thomas and B.B. Moore, Royal Aircraft Establishment Technical Report No. 68016
2. Fundamentals of Nuclear Hardening of Electronic Equipment, L.W. Ricketts, Wiley Interscience 1972
3. "Comparative Heat Resistance of Hypalon and Neoprene," K.H. Whitlock, DuPont, SD-157

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-022
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: TRW Mission
Model-Number(s): See Appendix A
Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These valves are qualified for service as listed by the qualification parameters defined in this report.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste

Ray A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by Farwell & Hendrick. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell
CHARLES R. FARWELL
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
No. 10163

Dr. Charles R. Farwell
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Date 6/6/84 P.E. Stamp

Cleveland Electric Illuminating Company

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-022
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: TRW Mission

Model-Number(s): See Appendix A

Non-Metallic Materials: NPL 0004 - Nordel (EPDM) (Valve Seal)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	2.7E08 Gamma 2.9E08 Beta	1.0E09 (2)	2
Temperature	330F	330 F	1
Pressure	300 PSIG	(1)	-
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

- Notes: 1) The pressure retaining characteristics of the valve seal are monitored during system startup testing and hydrostatic testing. The pressure retaining function of the seal is assured through continued operational tests.
- 2) EPDM is Ethylene-Propylene-Diene Terpolymer and is chemically within the class of compounds known generically as Ethylene Propylenes. Rubber designations such as EPDM are defined by ASTM D-3853 "Rubber and Rubber Latices - Abbreviations for Chemicals Used in Compounding, Practice For" (See Reference 2). Because of these similarities the radiation data provided in Reference 3 has been considered applicable. Data to 1.0E09 confirms the presence of the material, in this particular application, physical presence should provide an adequate valve seal.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-822
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. "Nordel Hydrocarbon Rubber, Engineering Properties and Applications," DuPont Technical Bulletin E-13193
2. American Standard Testing Methods (ASTM) D3853-81, "Rubber and Rubber Latices - Abbreviations for Chemicals Used in Compounding, Practice For."
3. Parker Seal Company Laboratory Report, "An Investigation into the Radiation Resistance of Selected Compounds," Report No. K10.063A, Dated May 24, 1973

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-423
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Turbonetics

Model-Number(s): SC-6

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service as defined in this report without exception or restriction provided routine maintenance is applied to those items requiring lubrication.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided for in the contract. Farwell & Hendrick's engineering evaluation has been reviewed and approved by

Charles B. Farwell
SEAL
10163
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
Dr. Charles B. Farwell
Director of Engineering

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Form No. 2 Page 1 of 1

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-823
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: Turbonetics

Model-Number(s): SC-6

Non-Metallic Materials: None (1)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	GRW PAGE NUMBER
Radiation	1.8E07 Gamma 1.1E08 Beta	---	-
Temperature	184.6 F	---	-
Pressure	---	---	-
Chemical Spray	---	---	-
Humidity	100% RH	---	-
Other:			

Notes: (1) There are no non-metallic components related to the safety function of this equipment with the exception of lubricant (grease) which is covered under the Perry Power Plant Lubrication and Maintenance Program.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-29-823
File Revisions: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. PNPP Safety Related Parts Limited Life Components SRA Report.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-825
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Westinghouse

Model-Number(s): See Appendix A

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: These components are qualified for service in the environmental zones defined herein without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.

Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Woeste

Roy A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.

William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto

Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided by DiBenedetto, Farwell & Hendricks. The engineering evaluation has been approved by me.

Charles R. Farwell, Jr.

DR. CHARLES R. FARWELL, JR.
Engineer and C.E.O.

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Program Acceptance by:

Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-025
 File Revision: 0
 Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Westinghouse
 Model-Number(s): See Appendix A
 Non-Metallic Materials: NML #821 - Grease (Lubricant)

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	DRW PAGE NUMBER
Radiation	1.52E06 Gamma (2)	---	1
Temperature	163 F (1)	---	1
Pressure	---	---	-
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

Notes: 1) Based on FB-7
 2) Based on FB-8
 3) There are no non-metallic components related to the safety function of this equipment with the exception of lubricant (grease) which is addressed under the Perry Nuclear Plant Lubrication and Maintenance Program.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP610-20-025
File Revision: 0
Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. Instruction Manual for Westinghouse Order PHY-2110-EY GAI File No. 96-243-0-00.

APPENDIX A

MILD ENVIRONMENT FILE

Project Number: 20070
File Number: SP810-20-100
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT
QUALIFICATION REVIEW FILE
FOR
MILD ENVIRONMENT EQUIPMENT

Manufactured by

LIST ATTACHED

for

CLEVELAND ELECTRIC ILLUMINATING COMPANY
PERRY NUCLEAR POWER PLANT

Project Number: 20070
File Number: SP810-20-100
File Revision: 0
Date: 06/06/84

MANUFACTURES LIST

- 01- Buffaco Forge
- 02- Comsip Delphi
- 03-Const Specialties
- 04-Controlmatics
- 05-Delaval
- 06-Envirex
- 07-Gould Pump
- 08-Ingersoll-Rand
- 09-ITT General Controls
- 10- Overlay Manufacturies
- 11- Papco
- 12-Powers Regulator

RECORD OF REVISIONS

REVISION NUMBER	ISSUE DATE	PREPARED BY	APPROVED BY	Q.A. BY	PAGES REVISED & DESCRIPTION
0	6/6/84	TMM	PAD	RAW	Original Issue

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ATTACHMENT

References

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-100
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturers: See Appendix B
Model-Number(s): See Appendix B

Qualification Restrictions: This qualification file has been developed exclusively for the maintenance and/or replacement interval determination for non-metallic components found in safety-related mechanical equipment located in a mild environment.
Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This file does not provide a qualification conclusion but rather establishes maintenance and/or replacement intervals for identified materials utilized in safety-related mechanical equipment located in a mild environment.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Roy A. Wueste
Roy A. Wueste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the customer's purchase order as provided to DiBenedetto, Farwell & Hendricks. The engineering evaluation has been reviewed and approved by me.

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering and C.E.O.

Program Acceptance by:

Cleveland Electric Illuminating Company

Registration P.E. No. 10163
State of North Carolina

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP810-20-100
 File Revisions: 0
 Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturers: See Appendix B
 Model-Number(s): See Appendix B
 Non-Metallic Materials: See Appendix D For Material Specific Calculations

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRM PAGE NUMBER
Radiation			
Temperature			
Pressure			
Chemical Spray			
Humidity			
Other:			

Notes:

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-024
File Revision: 0
Date: 06/6/84

MECHANICAL EQUIPMENT QUALIFICATION

SUMMARY CONCLUSIONS

Manufacturer: Union Pump

Model-Number(s): 2 X 3 TD 60

Qualification Restrictions: None

Justification for Interim Operation (if applicable): Not Applicable

Qualification Conclusion: This equipment is qualified for service as defined in this report without exception or restriction.

Prepared by:

Thomas M. Maynard, Jr.
Thomas M. Maynard, Jr.
Project Engineer

QA Approval by:

Ray A. Woeste
Ray A. Woeste
QA Manager

Technical Review by:

William R. Kelley, Jr.
William R. Kelley, Jr.
Program Manager

Program Approval by:

Philip A. DiBenedetto
Philip A. DiBenedetto
Program Director

Certificate of Compliance:

I hereby certify that the engineering evaluation has been performed in full accordance with the purchase order as provided by Farwell & Henricks. The engineering evaluation has been reviewed and approved by:

Charles R. Farwell, Jr.
Dr. Charles R. Farwell, Jr.
Director of Engineering


Registration P.E. No. 10163
State of North Carolina

Program Acceptance by:

Cleveland Electric Illuminating Company

Date 6/6/84 P.E. Stamp

Perry Nuclear Power Plant
 Cleveland Electric Illuminating Company

File Number: SP618-20-024
 File Revision: 0
 Date: 6/6/84

MECHANICAL EQUIPMENT QUALIFICATION

QUALIFICATION SUMMARY REVIEW

Manufacturer: Union Puon
 Model-Number(s): 2 X 3 TD 60

Non-Metallic Materials: PML 0022 - Plexiglass (Plunger Cover)

* Identified In Reference 2 As A Methyl Methacrylate

ENVIRONMENTAL LIMITATIONS

PARAMETERS	REQUIRED	DEMONSTRATED	QRW PAGE NUMBER
Radiation	1.8E07 Gamma (1)	2.8E07	1
Temperature	184.6 F	195 F	1
Pressure	1400 PSIG	(2)	1
Chemical Spray	---	---	-
Humidity	---	---	-
Other:			

- Notes: 1) Because of the thickness of the Plunger Cover Assembly of approximately 0.25 inch, the effects of Beta on the sealing function are considered negligible as attenuation in the material precludes excessive damage to the sealing surface.
 2) From Reference 1, Section VII, performance testing was successfully performed on the panes up to 2125 PSIG.

Perry Nuclear Power Plant
Cleveland Electric Illuminating Company

File Number: SP810-20-100
File Revisions: 0
Date: 06/06/84

MECHANICAL EQUIPMENT QUALIFICATION

REFERENCES

1. DuPont Technical Bulletin, "Viton E-60C-Long Term Compression Set Resistance," Bulletin No. V-D-3-301
2. "Studies Identify Problems and Strengths of Collector Seals and Sealing Compounds," Solar Engineering, August 1981, pp. 42-44
3. "Comparative Heat Resistance of Hypalon and Neoprene," K.H. Whitlock, DuPont, SD-157
4. DuPont Zytel, Nylon Resins Design Handbook, Publication
5. "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, Report No. AI-AEC-13145, pp. 80
6. "Demonstration of 40 Year Life for Materials," Okonite Company, Chart #1
7. "Design Guide for Reactor Cover Gas Elastomeric Seals," Atomic International Division, Rockwell International, Report No. AI-AEC-13145, pp. 81

APPENDIX A

NOT REQUIRED. THERE IS NO HARSH ENVIRONMENT EQUIPMENT ADDRESSED
IN THIS FILE.

APPENDIX B

PORT NUCLEAR POWER PLANT
 RESEARCH, EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - RIBS ENVIRONMENT EQUIPMENT LIST

MANUFACTURER: Buffalo Forge
 RIB FILE NUMBER: -19L81

COMPONENT DESIGNATION	ZONE	8 & 10	INL #	MONITORING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
1A3220011A	ES-4	912-628			4307		
1A3220011B	ES-4	912-628			4307		
1A3220011A	DS-1	912-619			6405		
1A3220011B	DS-1	912-619			6405		
1A3220011C	DS-1	912-619			6405		
1A3220012A	DS-1	912-619			6405		
1A3220012B	DS-1	912-619			6405		

ROYAL NUCLEAR POWER PLANT
 TECHNICAL EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - MILB ENVIRONMENT EQUIPMENT LIST

MANUFACTURER: Comish Delphi
 AEC FILE NUMBER: -106.02

COMPONENT DESIGNATION	ZONE	P I 13	MPL 8	VOODOO/DRAWING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
1401PAC22A	0B-1	None	I I I I I I I I		11796		
1401PAC22B	0B-1	None	I I I I I I I I		11796		

ROBY NUCLEAR POWER PLANT
 REDUNDANT EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - RILD ENVIRONMENT EQUIPMENT LIST

MANUFACTURER : Corec Specialties
 REF FILE NUMBER: -100.03

COMPONENT DESIGNATION	ZONE	P & ID	INSTRUMENT	ML #	VENDOR/RAWING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
1A3F079A	ES-4	912-638				9000E		
1A3F079B	ES-4	912-638				9000E		
1A3F079A	DS-1	912-619				9000E		
1A3F079B	DS-1	912-619				9000E		
1A3F079C	DS-1	912-619				9000E		
1A3F080A	DS-1					9000E		
1A3F080B	DS-1					9000E		
1A3F080C	DS-1					9000E		

PERRY NUCLEAR POWER PLANT
 REDUNDANT EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - MILB ENVIRONMENT EQUIPMENT LIST

MANUFACTURER : Controlmatic
 REL FILE NUMBER: -1MILB4

COMPONENT DESIGNATION	ZONE	P & ID	REL. #	VENDOR/DRAWING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
DC2F7M10A	CB-3	912-610			798-SB		
DC2F7M11B	CB-3	912-610			798-SB		
DC2F7M20A	CB-3	912-610			798-SB		
DC2F7M20B	CB-3	912-610			798-SB		
DC2F7L30A	CB-3	912-610			648-SB		
DC2F7L30B	CB-3	912-610			648-SB		

KERRY NUCLEAR POWER PLANT
 REDUNDANT EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - NUCLEAR ENVIRONMENT EQUIPMENT LIST

MANUFACTURER : Delaval
 REF FILE NUMBER: -184.05

COMPONENT DESIGNATION	ZONE	P & ID	MIL #	VENUM/DRAWING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
* 184320881A	DE-1				DSN-16-A		
* 184320881B	DE-1				DSN-16-A		
* 184320884A	DE-1				Type 1		
* 184320884B	DE-1				Type 1		
* 184620884A	DE-1				18-6116		
* 184620884B	DE-1				18-6116		
* 184720883A	DE-1				18-287A		
* 184720883B	DE-1				18-287A		

* These items are not listed on the safety-related parts limited life components list.

FERRY NUCLEAR POWER PLANT
 MEDICAL EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - RLLB ENVIRONMENT EQUIPMENT LIST

MANUFACTURER: Ewiflex
 RLLB FILE NUMBER: -186.16

COMPONENT DESIGNATION	ZONE	P 1 10	REL #	MOON/TRAINING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
041300011A	ES-4	382-21A	1	4349-22-827-1-8 (079448-1)	RES FOUR		
041300011B	ES-4	382-21A	1	4349-22-827-1-8 (079448-1)	RES FOUR		

ROBBY NUCLEAR POWER PLANT
 RESEARCH, EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - NILD ENVIRONMENT EQUIPMENT LIST

MANUFACTURER : Gould Pump
 NED FILE NUMBER : 106.87

COMPONENT DESIGNATION	ZONE	P & ID	MIL #										VENDOR/ORDR/ING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION	
			01	02	03	04	05	06	07	08	09	10					
DS10M02A	FB-1	302-45A													3485 6 1 8 - 17		
DS10M02B	FB-1	302-45A													3485 6 1 8 - 17		
DS10M02C	ES-4	302-21A													6 1 8 JLC		
DS10M02D	ES-4	302-21A													6 1 8 JLC		
1PASC001A	ES-4	302-751													29 1 30 BLC		
1PASC001B	ES-4	302-751													29 1 30 BLC		
1PASC002	ES-4	302-751													8 1 12 JMC		
1PASC001A	DS-1	302-252													3196 ST		
1PASC001B	DS-1	302-252													3196 ST		
1PASC001C	DS-1	302-256													3196 ST		
1PASC002	DS-1	302-252													3196 ST		
1PASC002	DS-1	302-252													3196 ST		
1PASC002	DS-1	302-256													3196 ST		

PERBY NUCLEAR POWER PLANT
 MECHANICAL EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - MECHANICAL EQUIPMENT LIST

MANUFACTURER : Ingersoll-Rand
 REF FILE NUMBER: -184, 86

COMPONENT DESCRIPTION	ZONE	P I ID	INCL	MPL #	VENDOR/PARTING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
0 DPA700011A	CB-5					8 1 14 50		
0 DPA700011B	CB-5					8 1 14 50		
0 DPA700011C	CB-5					8 1 14 50		
1PAC200011A	CB-5	302-621				8 1 14 50		
1PAC200011B	CB-5	302-621				8 1 14 50		

* These items do not appear on the
 the safety-related parts limited
 life components list.

REACTOR NUCLEAR POWER PLANT
 REPAIRABLE EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - RIBS ENVIRONMENT EQUIPMENT LIST

MANUFACTURER: I. IIT General Controls
 RIB FILE NUMBER: -19L 179

COMPONENT DESIGNATION	ZONE	P & ID	INL #	VOCOD/WORKING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
* DPCF1056A	CP-3				MH 92		
* DPCF1056B	CP-3				MH 92		

* These items do not appear on the
 safety-related parts limited life
 components list.

POBY NUCLEAR POWER PLANT
 MEDICAL EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - MILB ENVIRONMENT EQUIPMENT LIST

MANUFACTURER : Overly Manufacturing
 WEB FILE NUMBER: -198.10

COMPONENT DESIGNATION	ZONE	P & ID	MIL #	MOODN/DRN/INS NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
04SC00044	ES-4	302-751		4549-22-442-5-1 (5415-181.182)	5415		
04SC00044	ES-4	302-751		4549-22-442-5-1 (5415-181.182)	5415		

PORT NUCLEAR POWER PLANT
 MONITORING EQUIPMENT QUALIFICATION PROGRAM
 APPENDIX B - MILD ENVIRONMENT EQUIPMENT LIST (Page 2 of 2)

MANUFACTURER: Paces
 KEO FILE NUMBER: -106.11

COMPONENT DESIGNATION	ZONE	Q	R	T	10	10661	MIL 6			VENDOR/DRAWING NUMBER	MODEL NUMBER	SIZE	EQUIPMENT DESCRIPTION
10A1F103A	D6-1				912-619						CB-1000		
10A1F103B	D6-1				912-619						CB-1000		
10A1F103C	D6-1				912-619						CB-1000		
10A1F1031A	D6-1				912-619						CB-1000		
10A1F1031B	D6-1				912-619						CB-1000		
10A1F1031C	D6-1				912-619						CB-1000		
10A1F1032A	D6-1				912-619						CB-1000		
10A1F1032B	D6-1				912-619						CB-1000		
10A1F1032C	D6-1				912-619						CB-1000		
10A1F10321A	D6-1				912-619						CB-1000		
10A1F10321B	D6-1				912-619						CB-1000		
10A1F10321C	D6-1				912-619						CB-1000		

APPENDIX C

MASTER MATERIALS LIST
(MML)

<u>MML NO.</u>	<u>MATERIAL DESCRIPTION</u>
001	UHMW Polyethylene
002	Viton (Fluoroelastomer)
003	Asbestos
004	Mordel
005	Kalrez
006	Asbestos/SS
007	Ethylene Propylene (incl. EPT, EPDM)
008	Nitrile (Buna-N)
009	Silicone Rubber
010	Vespel (Polyimide)
011	Neoprene
012	Durametallic
013	Teflon
014	Kel-F
015	Nylon
016	Graphite (Grafoil)
017	Filmite 7000
018	Rubber
019	RTV
020	Dow 781
021	Grease
022	Plexiglass

APPENDIX D

SUMMARY CALCULATION MATRIX

Environmental Zone	Temperature (°F)		MML #, Description	Expected Life (Years)	Remarks
	Normal	Accident			
AB-1	116	115	002 - Viton	40	
			009 - Silicone Rubber	40	
			011 - Neoprene	39.7	
			015 - Nylon	40	
CB-3	85	86	008 - Nitrile (Buna-N)	12.4	
CB-5	89	86	003 - Asbestos	N/A	This material has been identified as non-age sensitive
DG-1	104	121	003 - Asbestos	N/A	This material has been identified as non-age sensitive
			008 - Nitrile (Buna-N)	4.39	
			013 - Teflon	40	
ES-W	90	104	003 - Asbestos	N/A	This material has been identified as non-age sensitive
			008 - Nitrile (Buna-N)	9.33	
			011 - Neoprene	40	
			016 - Graphite	N/A	
			018 - Rubber	6.07	
FB-1	127	130	012 - Durametallic (Ethylene Propylene)	40	

Calculation No. 1 - Viton For AB-1

Slope = 13156
 Y-Intercept = -20.5

Reference: 1
 Reference: 1

$$\ln \text{ life}_{116}^* = 13156 (1/319.6) - 20.5$$

$$= 41.16 - 20.5$$

$$\text{life}_{116} = 9.38E08 \text{ Hours } >40 \text{ Years}$$

Calculation No. 2 - Silicone Rubber For AB-1

Slope = 9986
 Y+Intercept = -18.37

Reference: 2
 Reference: 2

$$\ln \text{ life}_{116}^* = 9986 (1/319.6) - 18.37$$

$$= 31.24 - 18.37$$

$$\text{life}_{116} = 388481.18 \text{ Hours } >40 \text{ Years}$$

Calculation No. 3 - Neoprene For AB-1

Slope = 9842.85
 Y-Intercept = -18.03

Reference: 3
 Reference: 3

$$\ln \text{ life}_{116}^* = 9842.85 (1/319.6) - 18.03$$

$$= 30.79 - 18.03$$

$$\text{life}_{116} = 348014.7 \text{ Hours } 39.7 \text{ Years}$$

* Accident Temperature Lower Than Normal, Therefore Assumed Maximum Normal For Accident Condition.

Calculation No. 4 - Nylon For AB-1

Slope = 10116
 Y+Intercept = -17.4

Reference: 4
 Reference: 4

$$\ln \text{ life}_{116}^* = 10116 (1/319.6) - 17.4$$

$$= 31.65 - 17.4$$

$$\text{life}_{116} = 1.54E06 \text{ Hours } > 40 \text{ Years}$$

Calculation No. 5 - Nitrile (Buna-N) For CB-3

Slope = 7825
 Y+Intercept = -14.23

Reference: 5
 Reference: 5

$$\ln \text{ life}_{86} = 7825 (1/303) - 14.23$$

$$= 25.83 - 14.23$$

$$\text{life}_{86} = 109097.8 \text{ Hours, } = 12.45$$

Calculation No. 6 - Nitrile (Buna-N) For DG-1

Slope = 7825
 Y-Intercept = 14.23

Reference: 5
 Reference: 5

$$\ln \text{ life}_{121} = 7825 (1/322.4) - 14.23$$

$$= 24.27 - 14.23$$

$$= 22925.4 \text{ Hours } = 2.617 \text{ yrs}$$

$$\text{life}_{104} = (22925.4 - 4320) e^{-7825(1/322.4 - 1/313)}$$

$$= 18605.4 \quad (2.07)$$

$$\text{life}_{104}^* = 38513.2 \text{ Hours } = 4.39 \text{ Years}$$

* This Value Includes 4320 Hours At 121°F

Calculation No. 7 - Teflon For DG-1

Slope = 14389
Y-Intercept = -24.2

Reference: 2
Reference: 2

$$\ln \text{ life}_{121} = 14389 (1/322.4) - 24.2$$

$$= 44.6 - 24.2$$

$$\text{life}_{121} = 7.24E08 \text{ Hours } >40 \text{ Years}$$

Calculation No. 8 - Nitrile (Buna-N) For ES-W

Slope = 7825
Y-Intercept = -14.23

Reference: 5
Reference: 5

$$\ln \text{ life}_{104} = 7825 (1/313) - 14.23$$

$$= 25 - 14.23$$

$$\text{life}_{104} = 47572 \text{ Hours} = 5.43 \text{ Yrs}$$

$$\text{life}_{90} = (47572 - 4320) e^{-7825 (1/313 - 1/305.2)}$$

$$= 43252 (1.89)$$

$$\text{life}_{90} = 81746.3 \text{ Hours} = 9.33 \text{ Years}$$

Calculation No. 9 - Neoprene for ES-W

Slope = 9842.85
Y-Intercept = -18.03

Reference: 3
Reference: 3

$$\ln \text{ life}_{104} = 9842.85 (1/313) - 18.03$$

$$= 31.44 - 18.03$$

$$\text{life}_{104} = 666636.4 \text{ Hours } >40 \text{ Yrs}$$

Calculation No. 10 - Rubber For ES-W

Slope = 8526
 Y-Intercept = -16.9

Reference: 6
 Reference: 6

$$\ln \text{ life}_{104} = 8526 (1/313) - 16.9$$

$$= 27.24 - 16.9$$

$$\text{life}_{104} = 30946 \text{ Hours} = 3.5 \text{ Years}$$

$$\text{life}_{90} = (30946 - 4320) e^{-8526 (1/313 - 1/305.2)}$$

$$= 26626 (2.00)$$

$$\text{life}_{90} = 53252 \text{ Hours} = 6.07 \text{ Years}$$

Calculation No. 11 - Ethylene Propylene

Slope = 17798
 Y-Intercept = -38.8

Reference: 7
 Reference: 7

$$\ln \text{ life}_{130} = 17798 (1/327.4) - 38.8$$

$$= 54.36 - 38.8$$

$$\text{life}_{130} = 5.7E06 \text{ Hours} > 40$$

P783505.63
SELECT : 04EMECH
SELECT :
SORT : 01

EQUIPMENT QUALIFICATIONS
QUALIFICATIONS REVIEW LIST
AS OF 00651 06/28/84

PAGE 0

TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
95	**** LINE 1 ****	
38	(C)DS	THIS FIELD SHOWS WHETHER OR NOT ANY FIELDS ON THIS MPL RECORD HAVE BEEN REVISED SINCE THE LAST MONTHLY REPORT. THIS FIELD IS UPDATED AUTOMATICALLY AS CHANGES ARE PROCESSED AGAINST THE FILE. THIS FIELD WILL BE RESET AFTER THE MONTHLY REPORTS ARE PRINTED. THIS FIELD IS ALSO USED TO IDENTIFY PENDING DELETES A VALUE OF 'D' IS STORED.
01	EQUIPMENT NUMBER	THIS DATA ITEM IS A STRUCTURED CODE WHICH IS USED TO IDENTIFY A PARTICULAR SAFETY RELATED EQUIPMENT ITEM (MPL NUMBER).
39	DESCRIPTIONS SERVICE (2)	THIS FIELD DESCRIBES THE EQUIPMENT FUNCTION. IT IS COMPOSED OF TWO 36 CHARACTER LINES - THE FIRST LINE CONTAINS THE STANDARD DESCRIPTION OF THE SYSTEM, THE SECOND CONTAINS DEVICE SPECIFIC FUNCTION DATA.
04	DIAGRAM	THE ELEMENTARY DIAGRAM (SCHEMATIC) FOR THE ELECTRICAL EQUIPMENT (SYSTEM NUMBER AND SHEET NUMBER).
05	REV	THE REVISION OF THE ELEMENTARY DIAGRAM.
03	DIV	A CODE WHICH IDENTIFIES THE ELECTRICAL DIVISION OF THE EQUIPMENT.
09	SP NO 1	THE SPECIFICATION NUMBER UNDER WHICH THE EQUIPMENT WAS PURCHASED, AND THE SUB-SPEC WHICH IDENTIFIES THE PARTICULAR CONTRACT - IF MORE THAN ONE IS LET FOR THE SPECIFICATION.
19	GE PURCH DWG	THIS FIELD IS APPLICABLE TO ITEMS SPECIFIED/SUPPLIED BY GE-NUCLEAR. IT IDENTIFIES THE PURCHASE PART DRAWING USED FOR EQUIPMENT SPECIFICATION/PROCUREMENT.
28	-ENVIRONMENTAL- 1-2(SUM-ENV)/ENV QFD	THIS FIELD IS A CODED NUMBER ASSIGNED TO EACH DOCUMENTATION PACKAGE RECEIVED. IT IS THE FILE NUMBER FOR THE ENVIRONMENTAL QUALIFICATION REPORT.
29	NO TITLE (WILL DISPLAY AT END OF (SUM-ENV) FIELD)	THIS FIELD IDENTIFIES WHETHER OR NOT ANY CHANGES HAVE BEEN MADE TO THE KEY ENVIRONMENTAL FIELDS SINCE THE LAST MONTHLY REPORT. A VALUE OF '*' IS MOVED TO THIS FIELD WHEN THE RECORD IS UPDATED, THE FIELD IS RESET TO SPACES WHEN A NEW MONTHLY REPORT IS PRINTED.
36	-----SEISMIC----- (SUM-SEI)/SEI QFD	THIS FIELD IS A CODED NUMBER ASSIGNED TO EACH DOCUMENTATION PACKAGE RECEIVED. IT IS THE FILE NUMBER FOR THE SEISMIC QUALIFICATION REPORT.

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
37	NO TITLE (WILL DISPLAY AT END OF (SUM-SEI) FIELD)	THIS FIELD SHOWS WHETHER OR NOT ANY OF THE FIELDS ON THE SEISMIC REVIEW REPORT HAVE BEEN MODIFIED SINCE THE PREVIOUS MONTHLY REPORT. THIS FIELD WILL BE UPDATED AUTOMATICALLY AS FIELDS THAT APPEAR ON THE SEISMIC REVIEW REPORT ARE REVISED AND WILL BE RESET AFTER THE MONTHLY REPORT IS PRINTED.
96	**** LINE 2 ****	
17	C(D)S	THIS CODE IS PART OF THE EQUIPMENT NUMBER FIELD USED TO DIFFERENTIATE DEVICES WITH THE SAME MPL NUMBER. THE CODE VALUES FOR THIS FIELD ARE: BLANK = THE FIRST OCCURRENCE OF THE MPL NUMBER (IN THE FILE) N = SUBSEQUENT OCCURRENCES OF THE MPL NUMBER (IN THE FILE).
30	LOCATION	THIS FIELD SHOWS THE SPECIFIC PLANT LOCATION FOR THE EQUIPMENT. IT IS FORMATTED ACCORDING TO THE STANDARD LOCATION CODE FORMAT USED IN PLANT ENGINEERING DOCUMENTS (I.E. BUILDING, COLUMN LINE CROSS AND PLATFORM ELEVATION).
10	MANUFACTURER	THIS FIELD IDENTIFIES THE ACTUAL MANUFACTURER OF THE EQUIPMENT.
21	-ENVIRONMENTAL- 1-2 SUM-ENV/(ENV QFD)	THIS FIELD IDENTIFIES WHETHER SUFFICIENT DOCUMENTATION HAS BEEN RECEIVED TO PROVE THAT THE DEVICE IS QUALIFIED TO OPERATE IN THE ZONE THAT IT WILL BE LOCATED IN. THE ONLY ALLOWABLE VALUES FOR THIS FIELD ARE: BLANK - THE ITEM HAS NOT BEEN REVIEWED AS YET A - THE QUALIFICATION AND ASSOCIATED DOCUMENTATION IS COMPLETE B - THE QUALIFICATION TESTING IS FINISHED BUT ASSOCIATED DOCUMENTATION IS NOT YET SUBMITTED OR STILL IN REVIEW C - THE QUALIFICATION PLAN/PROCEDURE IS DOCUMENTED BUT TESTING HAS NOT YET BEGUN D - EQUIPMENT IS TO BE QUALIFIED (TEST PLAN NOT COMPLETE) E - EQUIPMENT IS JUDGED NOT QUALIFIABLE AND WILL BE REPLACED WITH QUALIFIED EQUIPMENT F - EQUIPMENT IS QUALIFIED FOR SEISMIC LOADING ONLY. REQUALIFICATION WILL BE PERFORMED TO ACCOUNT FOR HYDRODYNAMIC LOADS.

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
34	-----SEISMIC----- SUM-SEI/(SEI QFD)	THIS FIELD IDENTIFIES WHETHER THE EQUIPMENT HAS BEEN SEISMICALLY QUALIFIED. THE ONLY ALLOWABLE VALUES FOR THIS FIELD ARE: BLANK - THE ITEM HAS NOT BEEN REVIEWED AS YET A - THE QUALIFICATION AND ASSOCIATED DOCUMENTATION ARE COMPLETE B - THE QUALIFICATION TESTING IS FINISHED BUT ASSOCIATED DOCUMENTATION IS NOT YET SUBMITTED OR STILL IN REVIEW C - THE QUALIFICATION PLAN/PROCEDURE IS DOCUMENTED BUT TESTING HAS NOT YET BEGUN D - EQUIPMENT TO BE QUALIFIED (TEST PLAN NOT COMPLETE) E - EQUIPMENT IS JUDGED NOT QUALIFIABLE AND WILL BE REPLACED WITH QUALIFIED EQUIPMENT F - EQUIPMENT IS QUALIFIED FOR SEISMIC LOADING ONLY. REQUALIFICATION WILL BE PERFORMED TO ACCOUNT FOR HYDRODYNAMIC LOADS.
97	**** LINE 3 ****	
18	CD(S)	THIS CODE CLASSIFIES THE EQUIPMENT NUMBER AS AN MPL NUMBER OR A SUB MPL NUMBER. THE CODE VALUES FOR THIS FIELD ARE: BLANK = MPL NUMBER 'Y' = SUB MPL NUMBER.
02	DESCRIPTIONS EQUIPMENT (2)	THIS DATA ITEM CONTAINS A DESCRIPTION OF THE TYPE OF EQUIPMENT.
06	(SUPPORT) ELEV	THIS FIELD IDENTIFIES THE LARGER EQUIPMENT OR PANEL ON WHICH THE SUBJECT EQUIPMENT IS MOUNTED.
07	SUPPORT (ELEV)	THIS FIELD IDENTIFIES THE ACTUAL CENTERLINE ELEVATION OF THE PIECE OF NON-FLOOR MOUNTED EQUIPMENT (ROUNDED TO THE NEAREST FOOT).
11	MODEL	THIS FIELD CONTAINS THE MANUFACTURER'S MODEL NUMBER FOR THE EQUIPMENT.
13	-ENVIRONMENTAL- 3-4(M)LF-MI/OPD-SEAL	THIS IDENTIFIES THE METHOD BY WHICH THE EQUIPMENT WAS DEMONSTRATED TO BE ENVIRONMENTALLY QUALIFIED EITHER BY: ANALYSIS, (A) EXPERIENCE, (E) TESTING, (T) OR COMBINATION (C).
14	-ENVIRONMENTAL- 3-4 M(LF)MI/OPD-SEAL	THIS FIELD PROVIDES THE QUALIFIED LIFE FOR THE NORMAL AND ABNORMAL ENVIRONMENTS OF THE SPECIFIED ENVIRONMENTAL ZONE.

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
15	-ENVIRONMENTAL- 3-4 M-LF(MI)/OPD-SEAL	THE QUALIFICATION MAINTENANCE INTERVAL IS THE INTERVAL AT WHICH NON-ROUTINE MAINTENANCE AND/OR PARTS REPLACEMENT MUST BE PERFORMED TO MAINTAIN THE SPECIFIED QUALIFIED LIFE.
16	-----SEISMIC----- (M)LNF FB-SS-V/OP D	THIS IDENTIFIES THE METHOD BY WHICH THE EQUIPMENT IS DEMONSTRATED TO BE SEISMICALLY QUALIFIED. IT IS A STRUCTURED CODE 1 TO 3 POSITIONS LONG. THE FIRST POSITION IDENTIFIES THE GENERAL METHOD USED. THE VALUES ALLOWED ARE THE SAME AS FOR ENVIRONMENTAL METHOD OF QUALIFICATION. THE FOLLOWING DEFINE THE TYPE OF ANALYSIS OR TESTING DONE. VALID CODES ARE: A - MULTI-FREQUENCY/MULTI-AXIS G - STATIC ANALYSIS B - MULTI-FREQUENCY/SINGLE-AXIS H - EQUIVALENT STATIC ANALYSIS C - SINGLE-FREQUENCY/MULTI-AXIS I - DYNAMIC ANALYSIS D - SINGLE FREQUENCY/SINGLE-AXIS J - TIME HISTORY E - RANDOM INPUT MOTION K - RESPONSE SPECTRUM F - SINE BEAT L - OTHER.
51	-----SEISMIC----- M-LNF(FB)SS-V/OP D	LOWEST NATURAL FREQUENCY, FRONT TO BACK. A 2 POSITION CODE, WHICH MAY BE 00 TO 99, **, NA OR SPACES AS FOLLOWS: SPACES - THE SEISMIC REPORT HAS NOT YET BEEN REVIEWED AND LNF DATE INPUT. 00 - NO NATURAL FREQUENCIES WERE FOUND IN THE FREQUENCY RANGE COVERED BY THE SEISMIC QUALIFICATION REPORT. 01 THRU 98 - NEAREST WHOLE NUMBER TO THE LNF'S DETERMINED IN THE SEISMIC QUALIFICATION REPORT. 99 - USED WHEN THE LNF IS GREATER THAN OR EQUAL TO 99 AS DETERMINED IN THE SEISMIC QUALIFICATION REPORT. NA - NOT AVAILABLE. NO NATURAL FREQUENCIES WERE DETERMINED BY THE SEISMIC QUALIFICATION REPORT.
52	-----SEISMIC----- M-LNF FB(SS)V/OP D	LOWEST NATURAL FREQUENCY, SIDE TO SIDE. A 2 POSITION CODE, WHICH MAY BE 00 TO 99, **, NA OR SPACES AS FOLLOWS: SPACES - THE SEISMIC REPORT HAS NOT YET BEEN REVIEWED AND LNF DATE INPUT. 00 - NO NATURAL FREQUENCIES WERE FOUND IN THE FREQUENCY RANGE COVERED BY THE SEISMIC QUALIFICATION REPORT. 01 THRU 98 - NEAREST WHOLE NUMBER TO THE LNF'S DETERMINED IN THE SEISMIC QUALIFICATION REPORT. 99 - USED WHEN THE LNF IS GREATER THAN OR EQUAL TO 99 AS DETERMINED IN THE SEISMIC QUALIFICATION REPORT. NA - NOT AVAILABLE. NO NATURAL FREQUENCIES WERE DETERMINED BY THE SEISMIC QUALIFICATION REPORT.

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
53	-----SEISMIC----- LNF FB-SS(V)/OP D	LOWEST NATURAL FREQUENCY, VERTICALLY. A 2 POSITION CODE, WHICH MAY BE 00 TO 99, **, NA OR SPACES AS FOLLOWS: SPACES - THE SEISMIC REPORT HAS NOT YET BEEN REVIEWED AND LNF DATE INPUT. 00 - NO NATURAL FREQUENCIES WERE FOUND IN THE FREQUENCY RANGE COVERED BY THE SEISMIC QUALIFICATION REPORT. 01 THRU 98 - NEAREST WHOLE NUMBER TO THE LNF'S DETERMINED IN THE SEISMIC QUALIFICATION REPORT. 99 - USED, WHEN THE LNF IS GREATER THAN OR EQUAL TO 99 AS DETERMINED IN THE SEISMIC QUALIFICATION REPORT. NA - NOT AVAILABLE. NO NATURAL FREQUENCIES WERE DETERMINED BY THE SEISMIC QUALIFICATION REPORT.
98	**** LINE 4 ****	
20	(ZONE)M/H H2	A CODE WHICH DEFINES THE EQUIPMENT LOCATION WITHIN THE PLANT IN TERMS OF ZONES RELATING TO SIMILAR ENVIRONMENTAL CONDITIONS (SEE FSAR TABLE 3.11-1).
47	ZONE(M/H) H2	THIS FIELD IDENTIFIES THE TYPE OF ENVIRONMENT ZONE (HARSH OR MILD).
54	ZONE M/H (H2)	DENOTES SPECIFIC EQUIPMENT INSIDE THE CONTAINMENT BUILDING WHICH WILL BE SUBJECT TO A HYDROGEN BURN.
22	(EC)FT-CAT-ACC-RT	A TWO POSITION CODE WHICH IDENTIFIES THE REQUIRED FUNCTIONING OF THE DEVICE AS DEFINED IN NUREG 0588, APPENDIX E, ITEM 2. ALLOWABLE CODE VALUES ARE: BLANK = NOT REVIEWED AS YET P = PASSIVE, ONLY REQUIRED TO MAINTAIN THE MECHANICAL INTEGRITY OF THE PRESSURE BOUNDARY A1 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE THE ENVIRON- MENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS FOR WHICH IT MUST FUNCTION TO MITIGATE SAID ACCIDENTS A2 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS THROUGH WHICH IT NEED NOT FUNCTION FOR MITIGATION OF SAID ACCIDENTS, BUT THROUGH WHICH IT MUST NOT FAIL IN A MANNER DETRIMENTAL TO PLANT SAFETY OR ACCIDENT MITIGATION A3 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS THROUGH WHICH IT NEED NOT FUNCTION FOR MITIGATION OF SAID ACCIDENTS, AND WHOSE FAILURE IS DEEMED NOT DETRIMENTAL TO PLANT SAFETY OR ACCIDENT MITIGATION A4 = ACTIVE EQUIPMENT THAT WILL NOT EXPERIENCE ENVIRON- MENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS.

SELECT : 04EMECH

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TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
23	EC(FT)CAT-ACC-RT	A ONE POSITION CODE WHICH DEFINES THE FUNCTION TIME OF THE DEVICE. THE ALLOWABLE VALUES ARE: A) 0 - 45 SECONDS G) TO 2 DAYS B) TO 10 MINUTES H) TO 30 DAYS C) TO 1 HOUR I) TO 100 DAYS D) TO 6 HOURS J) TO 180 DAYS E) TO 12 HOURS SPACE) NOT DEFINED AS YET F) TO 24 HOURS
57	EC-FT(CAT)ACC-RT	RG1.97 CATEGORY (IF APPLICABLE).
25	EC-FT-CAT(ACC)RT	ACCURACY AS REQUIRED BY THE PLANT TECHNICAL SPECIFICATION (IN PERCENT OF FULL RANGE). THE VALUES ARE IN TERMS OF TENTHS OF A PERCENT (0.010 MEANS 1.0%).
26	EC-FT-CAT-ACC(RT)	THE RESPONSE TIME AS REQUIRED BY THE PLANT TECHNICAL SPECIFICATIONS. DEFINED AS A VALUE AND A TIME UNIT.
24	-ENVIRONMENTAL- 3-4 M-LF-MI/(OPD)SEAL	THIS FIELD DEFINES WHETHER OR NOT DOCUMENTATION HAS BEEN RECEIVED DEMONSTRATING THAT THE DEVICE PERFORMED ITS INTENDED SAFETY FUNCTION THRU NORMAL, ABNORMAL AND ACCIDENT EVENTS.
56	-ENVIRONMENTAL- 3-4 M-LF-MI/OPD(SEAL)	THIS FIELD INDICATES WHETHER A CONDUIT SEAL IS REQUIRED TO MAINTAIN THE DEVICES ENVIRONMENTAL QUALIFICATION.
35	-----SEISMIC----- M-LNF FB-SS-V/(OP D)	HAS THE OPERABILITY OF THE ITEM BEEN DEMONSTRATED? THE QUALIFICATION SUMMARY DISCUSSES HOW THE OPERABILITY OF THE ITEM WAS DEMONSTRATED.
99	**** LINE 5 ****	
27	-ENVIRONMENTAL- 5 (ART DEMO)H2 DEMO	THIS FIELD IDENTIFIES WHETHER OR NOT DOCUMENTATION HAS BEEN RECEIVED SHOWING THAT THE DEVICE WILL PERFORM TO THE REQUIRED ACCURACY AND RESPONSE TIME SPECIFICATIONS.
55	-ENVIRONMENTAL- 5 ART DEMO(H2 DEMO)	THIS FIELD INDICATES THAT SUFFICIENT DOCUMENTATION EXISTS TO DEMONSTRATE HYDROGEN BURN SURVIVABILITY.
31	-----SEISMIC----- (RRS)DP-LDS S-O-R	THE REQUIRED RESPONSE SPECTRA USED IN THE SEISMIC QUALIFICATION PROGRAM, BASED ON EQUIPMENT LOCATION.
32	-----SEISMIC----- RRS(DP)LDS S-O-R	THE DAMPING FACTOR FOR FAULTED (SSE) CONDITION, FOR THE EQUIPMENT (BASED ON TABLE 1 OF IEEE 344-1975) TO BE USED WITH THE RRS.
48	-----SEISMIC----- RRS-DP-LDS(S)O-R	LOADS CONSIDERED IN THE SEISMIC QUALIFICATION PROGRAM. IF SEISMIC LOADS WERE CONSIDERED, AN 'S' WILL APPEAR.

EQUIPMENT QUALIFICATIONS
QUALIFICATIONS REVIEW LIST
AS OF 00651 06/28/84

0783505.63
SELECT : 04EMECH
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TITLE : MECHANICAL EQUIP.

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
49	-----SEISMIC----- RRS-DP-LDS S(0)R	LOADS CONSIDERED IN THE SEISMIC QUALIFICATION PROGRAM. IF HYDRODYNAMIC LOADS WERE CONSIDERED, AN 'H' WILL APPEAR.
50	-----SEISMIC----- RRS-DP-LDS S-0(R)	LOADS CONSIDERED IN THE SEISMIC QUALIFICATION PROGRAM. IF RIM WAS CONSIDERED, THE APPLICABLE 'G' LEVEL WILL APPEAR.

SELECT : 04EMECH
 SELECT :
 SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-Q-R
*OC41 F 0513A	STANDBY LIQUID CONTROL	MECH	53104	1	* SP531-004*05 *
	BACKFLOW CHECK	IBI/05-620	KEROTEST	2	A
	2 INCH CHECK VALVE	LOCAL-LM	D30516	3	AG 40 NA NA
		FB-7 HARSH	A1 J N/A	N/A 4	YES
				5	S 3
*OC41 F 0513B	STANDBY LIQUID CONTROL	MECH	53104	1	* SP531-004*05 *
	BACKFLOW CHECK	IBI/05-620	KEROTEST	2	A
	2 INCH CHECK VALVE	LOCAL-LM	D30516	3	AG 40 NA NA
		FB-7 HARSH	A1 J N/A	N/A 4	YES
				5	S 3
*OC41 F 0529A	STANDBY LIQ. CONTROL SYSTEM	MECH	523	1	* SP523-000-00 *
	PREVENT PUMP FROM RUNNING AT SHUTOFF	IBI/05-623	TARGET ROCK CORP.	2	A
	1 INCH X 1 INCH	LOCAL-LM	76H-016	3	AH NA NA NA
	RELIEF	FB-7 HARSH	A1 J N/A	N/A 4	YES
				5	S 3
*OC41 F 0529B	STANDBY LIQ. CONTROL SYSTEM	MECH	523	1	* SP523-000-00 *
	PREVENT PUMP FROM RUNNING AT SHUTOFF	IBI/05-623	TARGET ROCK CORP.	2	A
	1 INCH X 1 INCH	LOCAL-LM	76H-016	3	AH NA NA NA
	RELIEF	FB-7 HARSH	A1 J N/A	N/A 4	YES
				5	S 3
*OC41 F 0542A	STANDBY LIQUID CONTROL	MECH	53104	1	* SP531-004*02 *
	MECH SEAL ISO CHK	IBI/05-620	KEROTEST	2	A
	3/4 INCH CHECK VALVE	LOCAL-LM	D31506	3	AG NA NA NA
		FB-4 MILD	A4 J N/A	N/A 4	YES
				5	S 3
*OC41 F 0542B	STANDBY LIQUID CONTROL	MECH	53104	1	* SP531-004*02 *
	MECH SEAL ISO CHK	IBI/05-620	KEROTEST	2	A
	3/4 INCH CHECK VALVE	LOCAL-LM	D31506	3	AG NA NA NA
		FB-4 MILD	A4 J N/A	N/A 4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT FLEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OG41 F 0295	FUEL POOL COOL & CLEAN-UP SYSTEM	MECH	524	1	* SP524-000*04 *
1	FILTER-DEMIN. EFFLUENT ISOL. 10 SEC	IBG/05-599	CONTROMATICS	2	A
	12 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TD 23 30 23
	VALVES	FB-1 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OG41 F 0360	FUEL POOL COOL & CLEAN-UP SYSTEM	MECH	524	1	* SP524-000*03 *
1	FILTER-DEMIN. BPS.	IBH/06-599	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TD 25 21 25
	VALVE	FB-1 MILD	A4 J N/A 30.0 N/A	4	YES
				5	S 3
*OG41 F 0545A	FUEL POOL COOL AND CLEAN-UP	MECH	52101	1	* SP521-001 00 *
	FUEL POOL CIRC. PUMP DISCH.	IBH/06-574	TRW MISSION	2	A
	10 INCH CHECK VALVE	LOCAL-LM	K15CPF-V79	3	AH NA NA NA
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*OG41 F 0545B	FUEL POOL COOL AND CLEAN-UP	MECH	52101	1	* SP521-001 00 *
	FUEL POOL CIRC. PUMP DISCH.	IBH/06-574	TRW MISSION	2	A
	10 INCH CHECK VALVE	LOCAL-LM	K15CPF-V79	3	AH NA NA NA
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*OG41 F 0548A	FUEL POOL COOL AND CLEAN-UP SYSTEM	MECH	523	1	* SP523-000*02 *
	FUEL POOL HX. THERMAL EXP.	IBI/06-599	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	FB-1 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OG41 F 0548B	FUEL POOL COOL AND CLEAN-UP	MECH	523	1	* SP523-000*02 *
	FUEL POOL HX. THERMAL EXP.	IBI/06-599	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	FB-1 MILD	A4 J N/A N/A	4	YES
				5	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OG41 F 0597A	FUEL POOL COOL AND CLEAN-UP SYSTEM	MECH	5102	1	* SP521-002*60 *
	SURGE TK. IN.	IBG/07-599	BORG WARNER	2	A
	3 INCH CHECK VALVE	LOCAL-LM	81450	3	AH NA NA NA
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*OG41 F 0597B	FUEL POOL COOL AND CLEAN-UP SYSTEM	MECH	5210	1	* SP521-002*60 *
	SURGE TK. IN.	IBJ/07-599	BORG WARNER	2	A
	3 INCH CHECK VALVE	LOCAL-LM	81450	3	AH NA NA NA
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*OG41 F 0746A	FUEL POOL COOL AND CLEAN-UP	MECH	523	1	* SP523-000*02 *
	FUEL POOL SUPPLEMENT COOLING LINE	IBJ/08-599	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	FB-1 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OG41 F 0746B	FUEL POOL COOL AND CLEAN-UP	MECH	523	1	* SP523-000*02 *
	FUEL POOL SUPPLEMENT COOLING LINE	IBJ/08-599	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	FB-1 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OM23 C 0001A	MCC, SWGR & MISC ELEC AREAS HVAC SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCD/03-679	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3060	3	AH 35 35 35
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C7 3 S
*OM23 C 0001B	MCC, SWGR & MISC ELEC AREAS HVAC SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCA/03-679	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3060	3	AH 35 35 35
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C7 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM23 C 0002A	MCC, SWGR & MISC ELEC AREAS HVAC SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCD/03-679	WESTINGHOUSE CORP	2	A
	RETURN AIR FAN	LOCAL-CF	3054	3	AH 35 35 35
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C7 3 S
*OM23 C 0002B	MCC, SWGR & MISC ELEC AREAS HVAC SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCA/03-679	WESTINGHOUSE CORP	2	A
	RETURN AIR FAN	LOCAL-CF	3054	3	AH 35 35 35
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C7 3 S
*OM23 F 0010A	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH	049	1	* SPO49-000-12 *
1	OUTSIDE AIR DAMPER	CCE/02-679	PAPCO	2	A
	DAMPER	LOCAL-LM	0B-1000	3	TA 12 33 18
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C8 3 S
*OM23 F 0010A	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH	049	1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCE/02-679	POWERS REGULATOR CO	2 A	A
	CONTROLLER	OM23 F 0010A	331-2799	3 C 40Y 40Y	TA 12 33 33
		CB-3 MILD	A4 J N/A N/A	4 YES	YES
				5 YES	C8 3 S
*OM23 F 0010B	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH	049	1	* SPO49-000-12 *
1	OUTSIDE AIR DAMPER	CCA/02-679	PAPCO	2	A
	DAMPER	LOCAL-LM	0B-1000	3	TA 12 33 18
		CB-3 MILD	A4 J N/A N/A	4	YES
				5	C8 3 S
*OM23 F 0010B	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH	049	1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCA/02-679	POWERS REGULATOR CO	2 A	A
	CONTROLLER	OM23 F 0010B	331-2799	3 C 40Y 40Y	TA 12 33 33
		CB-3 MILD	A4 J N/A N/A	4 YES	YES
				5 YES	C8 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
*OM23 F 0510A	MCC, SWGR & MISC ELECT EQPT AREA VT	MECH		049				1	* SP049-000*00 *
	FAN ISOLATION	CCE/03-679		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S
*OM23 F 0510B	MCC, SWGR & MISC ELECT EQPT AREA VT	MECH		049				1	* SP049-000*00 *
	FAN ISOLATION	CCA/03-679		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S
*OM23 F 0540A	MCC, SWGR AND MISC ELECT EQPT AREA VT	MECH		049				1	* SP049-000*00 *
	FAN ISOLATION	CCD/03-679		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S
*OM23 F 0540B	MCC, SWGR AND MISC ELECT EQPT AREA VT	MECH		049				1	* SP049-000*00 *
	FAN ISOLATION	CCB/03-679		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S
*OM24 C 0001A	BATTERY ROOM EXHAUST SYSTEM	MECH		645				1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCD/05-679		WESTINGHOUSE CORP				2	A
	EXHAUST AIR FAN	LOCAL-CF		3022				3	AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S
*OM24 C 0001B	BATTERY ROOM EXHAUST SYSTEM	MECH		645				1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCA/05-679		WESTINGHOUSE CORP				2	A
	EXHAUST AIR FAN	LOCAL-CF		3022				3	AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A		4	YES
								5	C7 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1	GE	PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER	1-2	SUM-ENV/ENV	QFD		SUM-SEI/SEI	QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL		3-4	M-LF-MI/OPD-SEAL			M-LNF	FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT	5	ART	DEMO-H2	DEMO	RRS-DP-LDS	S-O-R
*OM24 F 0011A	BATTERY ROOM EXHAUST SYSTEM	MECH			049					1	* SPO49-000-12 *
1	OUTSIDE AIR DAMPER	CCD/03-679			PAPCO					2	A
	DAMPER	LOCAL-LM			OB-1000					3	TA 12 33 18
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S
*OM24 F 0011A	BATTERY ROOM EXHAUST SYSTEM	MECH			049					1	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCD/03-679			POWERS REGULATOR CO					2	A
	CONTROLLER	OM24 F 0011A			331-2799					3	C 40Y 40Y TA 12 33 33
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S
*OM24 F 0011B	BATTERY ROOM EXHAUST SYSTEM	MECH			049					1	* SPO49-000-12 *
1	OUTSIDE AIR DAMPER	CCB/03-679			PAPCO					2	A
	DAMPER	LOCAL-LM			OB-1000					3	TA 12 33 18
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S
*OM24 F 0011B	BATTERY ROOM EXHAUST SYSTEM	MECH			049					1	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCB/03-679			POWERS REGULATOR CO					2	A
	CONTROLLER	OM24 F 0011B			331-2799					3	C 40Y 40Y TA 12 33 33
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S
*OM24 F 0065A	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH			049					1	* SPO49-000-12 *
1	SUPPLY ISOLATION	CCD/03-679			PAPCO					2	A
	DAMPER	LOCAL-LM			OB-1000					3	TA 12 33 18
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S
*OM24 F 0065A	BATTERY ROOM EXHAUST SYSTEM	MECH			049					1	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCD/03-679			POWERS REGULATOR CO					2	A
	CONTROLLER	OM24 F 0065A			331-2799					3	C 40Y 40Y TA 12 33 33
		CB-3 MILD			A4 J	N/A				4	YES
										5	CB 3 S

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM24 F 0065B	MCC SWGR & MISC ELEC AREAS HVAC SYS	MECH		049			1	* SP049-000-12 *
1	SUPPLY ISOLATION	CCB/03-679		PAPCO			2	A
	DAMPER	LOCAL-LM		OB-1000			3	TA 12 33 18
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C8 3 S
*OM24 F 0065B	BATTERY ROOM EXHAUST SYSTEM	MECH		049			1 SP049-000-12 *	SP049-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCB/03-679		POWERS REGULATOR CO			2 A	A
	CONTROLLER	OM24 F 0065B		331-2799			3 C 40Y 40Y	TA 12 33 33
		CB-3 MILD		A4 J	N/A	N/A	4 YES	YES
							5 YES	C8 3 S
*OM24 F 0550A	BATTERY ROOM EXHAUST SYSTEM	MECH		049			1	* SP049-000*00 *
	FAN ISOLATION	CCD/04-679		TECHNO			2	A
	CHECK DAMPER	LOCAL-LM		N/A			3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM24 F 0550B	BATTERY ROOM EXHAUST SYSTEM	MECH		049			1	* SP049-000*00 *
	FAN ISOLATION	CCB/04-679		TECHNO			2	A
	CHECK DAMPER	LOCAL-LM		N/A			3	AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM25 C 0001A	CONTROL ROOM HVAC SYSTEM	MECH		645			1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCC/04-679		WESTINGHOUSE CORP			2	A
	SUPPLY AIR FAN	LOCAL-CF		3049			3	AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM25 C 0001B	CONTROL ROOM HVAC SYSTEM	MECH		645			1	* SP645-000*00 *
1	CENTRIFUGAL FAN	CCB/04-679		WESTINGHOUSE CORP			2	A
	SUPPLY AIR FAN	LOCAL-CF		3049			3	AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*OM25 C 0002A 1	CONTROL ROOM HVAC SYSTEM CENTRIFUGAL FAN SUPPLY AIR FAN	MECH CCC/04-679 LOCAL-CF CB-3 MILD	645 WESTINGHOUSE CORP 3049 A4 J N/A N/A	1 2 3 4 5	* SP645-000*00 * A AH 35 35 35 YES C7 3 5
*OM25 C 0002B 1	CONTROL ROOM HVAC SYSTEM CENTRIFUGAL FAN SUPPLY AIR FAN	MECH CCB/04-679 LOCAL-CF CB-3 MILD	645 WESTINGHOUSE CORP 3049 A4 J N/A N/A	1 2 3 4 5	* SP645-000*00 * A AH 35 35 35 YES C7 3 5
*OM25 F 0010A 1	CONTROL RM HVAC & EMERG RECIRC SYS OUTSIDE AIR DAMPER DAMPER	MECH CCD/03-679 LOCAL-LM CB-3 MILD	049 PAPCO NU-CON BT A4 J N/A N/A	1 2 3 4 5	* SP049-000-08 * A TA 20 23 33 YES C8 3 5
*OM25 F 0010A	CONTROL ROOM HVAC SYSTEM AIR ACTUATED DAMPER POSITIONER CONTROLLER	MECH CCD/03-679 OM25 F 0010A CB-3 MILD	049 CONTROLMATICS 700-SR A4 J N/A N/A	1 2 3 4 5	SP049-000-08 * A TA 20 23 33 YES C8 3 5
*OM25 F 0010B 1	CONTROL RM HVAC & EMERG RECIRC SYS OUTSIDE AIR DAMPER DAMPER	MECH CCB/03-679 LOCAL-LM CB-3 MILD	049 PAPCO NU-CON BT A4 J N/A N/A	1 2 3 4 5	* SP049-000-08 * A TA 20 23 33 YES C8 3 5
*OM25 F 0010B	CONTROL ROOM HVAC SYSTEM AIR ACTUATED DAMPER POSITIONER CONTROLLER	MECH CCB/03-679 OM25 F 0010B CB-3 MILD	049 CONTROLMATICS 700-SR A4 J N/A N/A	1 2 3 4 5	SP049-000-08 * A TA 20 23 33 YES C8 3 5

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM25 F 0020A	CONTROL RM HVAC & EMERG RECIRC SYS	MECH	049	1	* SP049-000-08 *
1	OUTSIDE AIR DAMPER	CCB/03-679	PAPCO	2	A
	DAMPER	LOCAL-LM	NU-CON BT	3	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4	YES
				5	C8 3 5
*OM25 F 0020A	CONTROL ROOM HVAC SYSTEM	MECH	049	1 SP049-000-08 *	SP049-000-08 *
	AIR ACTUATED DAMPER POSITIONER	CCB/03-679	CONTROLMATICS	2 A	A
	CONTROLLER	OM25 F 0020A	700-SR	3 C 40Y 40Y	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4 YES	YES
				5 YES	C8 3 5
*OM25 F 0020B	CONTROL RM HVAC & EMERG RECIRC SYS	MECH	049	1	* SP049-000-08 *
1	OUTSIDE AIR DAMPER	CCD/03-679	PAPCO	2	A
	DAMPER	LOCAL-LM	NU-CON BT	3	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4	YES
				5	C8 3 5
*OM25 F 0020B	CONTROL ROOM HVAC SYSTEM	MECH	049	1 SP049-000-08 *	SP049-000-08 *
	AIR ACTUATED DAMPER POSITIONER	CCD/03-679	CONTROLMATICS	2 A	A
	CONTROLLER	OM25 F 0020B	700-SR	3 C 40Y 40Y	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4 YES	YES
				5 YES	C8 3 5
*OM25 F 0130A	CONTROL RM HVAC & EMERG RECIRC SYS	MECH	049	1	* SP049-000-08 *
1	ISOLATION DAMPER	CCC/03-679	PAPCO	2	A
	DAMPER	LOCAL-LM	NU-CON BT	3	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4	YES
				5	C8 3 5
*OM25 F 0130A	CONTROL ROOM HVAC SYSTEM	MECH	049	1 SP049-000-08 *	SP049-000-08 *
	AIR ACTUATED DAMPER POSITIONER	CCC/03-679	CONTROLMATICS	2 A	A
	CONTROLLER	OM25 F 0130A	600-SR	3 C 40Y 40Y	TA 20 23 33
		CB-3 MILD	A4 J N/A	N/A 4 YES	YES
				5 YES	C8 3 5

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION		MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-U-R
*OM25 F 0130B	CONTROL RM HVAC & EMERG RECIRC SYS	MECH		O49		1	* SPO49-000-08 *
1	ISOLATION DAMPER	CCC/03-679		PAPCO		2	A
	DAMPER	LOCAL-LM		NU-CON BT		3	TA 20 23 33
		CB-3 MILD		A4 J N/A	N/A	4	YES
						5	C8 3 S
*OM25 F 0130B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1 SPO49-000-08 *	SPO49-000-08 *
	AIR ACTUATED DAMPER POSITIONER	CCC/03-679		CONTRLMATICS		2 A	A
	CONTROLLER	OM25 F 0130B		600-SR		3 C 40Y 40Y	TA 20 23 33
		CB-3 MILD		A4 J N/A	N/A	4 YES	YES
						5 YES	C8 3 S
*OM25 F 0250A	CONTROL RM HVAC & EMERG RECIRC SYS	MECH		O49		1	* SPO49-000-12 *
1	EXHAUST AIR DAMPER	CCD/01-679		PAPCO		2	A
	DAMPER	LOCAL-LM		08-1000		3	TA 12 33 18
		CB-3 MILD		A4 J N/A	N/A	4	YES
						5	C8 3 S
*OM25 F 0250A	CONTROL ROOM HVAC SYSTEM	MECH		O49		1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCD/01-679		POWERS REGULATOR CO		2 A	A
	CONTROLLER	OM25 F 0250A		331-2799		3 C 40Y 40Y	TA 12 33 33
		CB-3 MILD		A4 J N/A	N/A	4 YES	YES
						5 YES	C8 3 S
*OM25 F 0250B	CONTROL RM HVAC & EMERG RECIRC SYS	MECH		O49		1	* SPO49-000-12 *
1	EXHAUST AIR DAMPER	CCC/03-679		PAPCO		2	A
	DAMPER	LOCAL-LM		08-1000		3	TA 12 33 18
		CB-3 MILD		A4 J N/A	N/A	4	YES
						5	C8 3 S
*OM25 F 0250B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCC/01-679		POWERS REGULATOR CO		2 A	A
	CONTROLLER	OM25 F 0250B		331-2799		3 C 40Y 40Y	TA 12 33 33
		CB-3 MILD		A4 J N/A	N/A	4 YES	YES
						5 YES	C8 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM25 F 0255A	CONTROL RM HVAC & EMERG RECIRC SYS	MECH			049			1	* SPO49-000-12 *
1	EXHAUST AIR DAMPER	CCE/O1-667			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 12 33 18
		CB-1 MILD			A4 J	N/A	N/A	4	YES
								5	C8 3 S
*OM25 F 0255A	CONTROL ROOM HVAC SYSTEM	MECH			049			1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCE/O1-667			POWERS REGULATOR CO			2 A	A
	CONTROLLER	OM25 F 0255A			331-2799			3 C 40Y 40Y	TA 12 33 33
		CB-1 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C8 3 S
*OM25 F 0255B	CONTROL RM HVAC & EMERG RECIRC SYS	MECH			049			1	* SPO49-000-12 *
1	EXHAUST AIR DAMPER	CCB/O1-667			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 12 33 18
		CB-1 MILD			A4 J	N/A	N/A	4	YES
								5	C8 3 S
*OM25 F 0255B	CONTROL ROOM HVAC SYSTEM	MECH			049			1 SPO49-000-12 *	SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCB/O1-667			POWERS REGULATOR CO			2 A	A
	CONTROLLER	OM25 F 0255B			331-2799			3 C 40Y 40Y	TA 12 33 33
		CB-1 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C8 3 S
*OM25 F 0260A	CONTROL ROOM HVAC SYSTEM	MECH			049			1	* SPO49-000-10 *
1	FAN VORTEX ACTUATOR SUPPORT/LINKAGE	CCD/O4-679			MCC POWERS			2	A
	ACTUATOR SUPPORT AND	LOCAL-CF			N/A			3	TA 20 17 40
	LINKAGE	CB-3 MILD			A4 J	N/A	N/A	4	YES
								5	C8 3 S
*OM25 F 0260A	CONTROL ROOM HVAC SYSTEM	MECH			049			1 SPO49-091-02 *	SPO49-000-10 *
	ELEC ACTUATED FAN VORTEX POSITIONER	CCD/O4-679			GENERAL CONTROLS ITT			2 A	A
	ACTUATOR	OM25 F 0260A			NH92			3 C 40Y 06Y	TA 20 17 40
		CB-3 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C8 3 S

SELECT : 04EMECH

SELECT :

SDRT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1	GE	PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER	1-2	SUM-ENV/ENV	QFD	SUM-SEI/SEI	QFD	
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL		3-4	M-LF-MI/OPD-SEAL	M-LNF	FB-SS-V/OP	D	
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT	5	ART DEMO-H2	DEMO	RRS-DP-LDS	S-O-R	
*OM25 F 0260B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1				*	SPO49-000-10 *
1	FAN VORTEX ACTUATOR SUPPORT/LINKAGE	CCB/04-679		MCC POWERS		2					A
	ACTUATOR SUPPORT AND LINKAGE	LOCAL-CF		N/A		3					TA 20 17 40
		CB-3 MILD		A4 J	N/A	N/A	4				YES
						5					CB 3 S
*OM25 F 0260B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1	SPO49-091-02	*			SPO49-000-10 *
	ELEC ACTUATED FAN VORTEX POSITIONER	CCB/04-679		GENERAL CONTROLS ITT		2	A				A
	ACTUATOR	OM25 F 0260B		NH92		3	C 40Y 06Y				TA 20 17 40
		CB-3 MILD		A4 J	N/A	N/A	4	YES			YES
						5	YES				CB 3 S
*OM25 F 0263A	CONTROL ROOM HVAC SYSTEM	MECH		O49		1				*	SPO49-000-12 *
1	RETURN AIR ISOLATION	CCE/01-671		PAPCO		2					A
	DAMPER	LOCAL-LM		OB-1000		3					TA 12 33 18
		CB-1 MILD		A4 J	N/A	N/A	4				YES
						5					CB 3 S
*OM25 F 0263A	CONTROL ROOM HVAC SYSTEM	MECH		O49		1	SPO49-000-12	*			SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCE/01-671		POWERS REGULATOR CO		2	A				A
	CONTROLLER	OM25 F 0263A		331-2799		3	C 40Y 40Y				TA 12 33 33
		CB-1 MILD		A4 J	N/A	N/A	4	YES			YES
						5	YES				CB 3 S
*OM25 F 0263B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1				*	SPO49-000-12 *
1	RETURN AIR ISOLATION	CCB/01-671		PAPCO		2					A
	DAMPER	LOCAL-LM		OB-1000		3					TA 12 33 18
		CB-1 MILD		A4 J	N/A	N/A	4				YES
						5					CB 3 S
*OM25 F 0263B	CONTROL ROOM HVAC SYSTEM	MECH		O49		1	SPO49-000-12	*			SPO49-000-12 *
	AIR ACTUATED DAMPER POSITIONER	CCB/01-671		POWERS REGULATOR CO		2	A				A
	CONTROLLER	OM25 F 0263B		331-2799		3	C 40Y 40Y				TA 12 33 33
		CB-1 MILD		A4 J	N/A	N/A	4	YES			YES
						5	YES				CB 3 S

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION		MANUFACTURER	1-2	SUM-ENV/ENV QFD	SUM-SEI/SEI QFD	
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL	3-4	M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D	
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT	5	ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM25 F 0510A	CONTROL ROOM HVAC SYSTEM	MECH		049		1		* SP049-000*00 *
	FAN ISOLATION	CCC/04-679		TECHNO		2		A
	CHECK DAMPER	LOCAL-LM		N/A		3		AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM25 F 0510B	CONTROL ROOM HVAC SYSTEM	MECH		049		1		* SP049-000*00 *
	FAN ISOLATION	CCC/04-679		TECHNO		2		A
	CHECK DAMPER	LOCAL-LM		N/A		3		AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM25 F 0551A	CONTROL ROOM HVAC SYSTEM	MECH		049		1		* SP049-000*00 *
	SYSTEM TRAIN ISOLATION	CCC/03-679		TECHNO		2		A
	CHECK DAMPER	LOCAL-LM		N/A		3		AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM25 F 0551B	CONTROL ROOM HVAC SYSTEM	MECH		049		1		* SP049-000*00 *
	SYSTEM TRAIN ISOLATION	CCC/03-679		TECHNO		2		A
	CHECK DAMPER	LOCAL-LM		N/A		3		AH NA NA NA
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM26 C 0001A	CONTROL RM EMERG RECIRCULATION SYS	MECH		645		1		* SP645-000*00 *
1	CENTRIFUGAL FAN	CCC/03-679		WESTINGHOUSE CORP		2		A
	RECIRCULATION FAN	LOCAL-CF		8037		3		AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S
*OM26 C 0001B	CONTROL RM EMERG RECIRCULATION SYS	MECH		645		1		* SP645-000*00 *
1	CENTRIFUGAL FAN	CCB/03-679		WESTINGHOUSE CORP		2		A
	RECIRCULATION FAN	LOCAL-CF		8037		3		AH 35 35 35
		CB-3 MILD		A4 J	N/A	N/A	4	YES
							5	C7 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM28 B 0001A	EMER CLOSED COOL PMP AREA COOL SYS	MECH	646	1	* SP646-000*00 *
1	AIR HANDLING UNIT FAN A	CCD/04-587	CARRIER	2	A
	FAN	LOCAL-CF	39ED18	3	AH 42 42 42
		CB-5 MILD	A4 J N/A N/A	4	YES
				5	C1 3 S
*OM28 B 0001B	EMER CLOSED COOL PMP AREA COOL SYS	MECH	646	1	* SP646-000*00 *
1	AIR HANDLING UNIT FAN B	CCD/05-587	CARRIER	2	A
	FAN	LOCAL-CF	39ED18	3	AH 42 42 42
		CB-5 MILD	A4 J N/A N/A	4	YES
				5	C1 3 S
*OM40 C 0001A	FUEL HANDLING AREA VENTILATION SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBK/09-599	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3037	3	AH 35 35 35
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	FH2 3 S
*OM40 C 0001B	FUEL HANDLING AREA VENTILATION SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBK/09-599	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3037	3	AH 35 35 35
		FB-3 HARSH	A1 J N/A N/A	4	YES
				5	FH2 3 S
*OM40 C 0002A	FUEL HANDLING AREA VENTILATION SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBG/06-682	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3030	3	AH 35 35 35
		FB-8 HARSH	A1 J N/A N/A	4	YES
				5	IB7 3 S
*OM40 C 0002B	FUEL HANDLING AREA VENTILATION SYS	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBH/06-682	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	3030	3	AH 35 35 35
		FB-8 HARSH	A1 J N/A N/A	4	YES
				5	IB7 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OM40 C 0002C	FUEL HANDLING AREA VENTILATION SYS	MECH		645				1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBI/06-682		WESTINGHOUSE CORP				2	A
	SUPPLY AIR FAN	LOCAL-CF		3030				3	AH 35 35 35
		FB-8 HARSH		A1 J	N/A	N/A		4	YES
								5	IB7 3 S
*OM40 F 0550	FUEL HANDLING BUILDING VENTILATION	MECH		091				1	* SP091-000*00 *
	FAN ISOLATION	IBM/08-599		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-3 HARSH		A1 J	N/A	N/A		4	YES
								5	FH2 3 S
*OM40 F 0551A	FUEL HANDLING BUILDING VENTILATION	MECH		091				1	* SP091-000*00 *
	SYSTEM TRAIN ISOLATION	IBG/05-682		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-4 MILD		A4 J	N/A	N/A		4	YES
								5	FH7 3 S
*OM40 F 0551B	FUEL HANDLING BUILDING VENTILATION	MECH		091				1	* SP091-000*00 *
	SYSTEM TRAIN ISOLATION	IBH/05-682		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-4 MILD		A4 J	N/A	N/A		4	YES
								5	FH7 3 S
*OM40 F 0551C	FUEL HANDLING BUILDING VENTILATION	MECH		091				1	* SP091-000*00 *
	SYSTEM TRAIN ISOLATION	IBI/05-682		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-4 MILD		A4 J	N/A	N/A		4	YES
								5	FH7 3 S
*OP41 F 0420	SERVICE WATER SYSTEM	MECH		641				1	* SP641-000*01 *
1	MAKE-UP WATER ISOLATION	VP / -608		HENRY PRATT COMPANY				2	B
	SERV WTR CLG TWR	LOCAL-LM		NXL				3	AH 35 35 35
	ISOL BUTTERFLY VALVE	OU-T MILD		A4 J	N/A	10.0 SEC		4	YES
								5	NA S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-0-R
*OP41 F 0430	SERVICE WATER SYSTEM	MECH	641	1	* SP641-000*01 *
1	MAKE-UP WATER ISOLATION	VP / -608	HENRY PRATT COMPANY	2	B
	SERV WTR CLG TWR	LOCAL-LM	NXL	3	AH 35 35 35
	ISOL BUTTERFLY VALVE	OU-T MILD	A4 J N/A 10.0 SEC	4	YES
				5	NA S 3
*OP42 F 0150A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	CONT. COMPLEX CHILLER BPS.	CCD/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-B	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0150B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	CONT. COMPLEX CHILLER BPS.	CCD/04-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0255A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. BPS.	IBJ/05-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0255B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. BPS.	IBJ/05-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0260A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. IN ISOL.	IBI/07-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
*OP42 F 0260B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. IN ISOL.	IBI/07-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0265A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. OUT. ISOL	IBJ/05-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0265B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	FUEL POOL HEAT EXCH. ISOL	IBJ/05-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0290	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	CCC/03-574 MCC TO CONTROL COMPLEXCHI	CCC/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVE	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0295A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO CONTROL COMPLEX CHILLERS	CCC/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0295B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO CONTROL COMPLEX CHILLERS	CCC/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	- ENVIRONMENTAL -	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OP42 F 0325A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC FROM CONT. COMPLEX CHILLER	CCB/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0325B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC FROM CONT. COMPLEX CHILLER	CCB/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0330A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC FROM CONT. COMPLEX CHILLER	CCE/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0330B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC FROM CONT. COMPLEX CHILLER	CCE/03-574	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CB-5 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0380A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO FUEL POOL HEAT EXCH. I	IBI/07-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0380B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO FUEL POOL HEAT EXCH. I	IBI/07-599	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D	
		ZONE M/H H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R	
*OP42 F 0390A	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO FUEL POOL HEAT EXCH. I	IBJ/05-599	CONTRONATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0390B	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC TO FUEL POOL HEAT EXCH. I	IBJ/05-599	CONTRONATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0440	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1		IBI/07-599	CONTRONATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVE	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0445	EMERGENCY CLOSED COOLING SYSTEM	MECH	524	1	* SP524-000*09 *
1	NCC FROM FUEL POOL HEAT EXCH.	IBJ/05-599	CONTRONATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVE	FB-1 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP42 F 0543A	EMERGENCY CLOSED COOLING SYSTEM	MECH	523	1	* SP523-000*02 *
	THERMAL EXP. RELIEF	CCE/03-574	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP42 F 0543B	EMERGENCY CLOSED COOLING SYSTEM	MECH	523	1	* SP523-000*02 *
	THERMAL EXP. RELIEF	CCC/03-574	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OP47 B 0001A	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH			643			1 SP643-000-01 *	SF643-000-01 *
1	CHILLED WATER REFRIG MACHINE	CCB/03-574			CARRIER CORP			2 A	A
	WATER CHILLER A	LOCAL-CF			19FA			3 C 40Y 14Y	CAI 20 35 35
		CB-5 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C1 3 S
*OP47 B 0001B	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH			643			1 SP643-000-01 *	SP643-000-01 *
1	CHILLED WATER REFRIG MACHINE	CCC/03-574			CARRIER CORP			2 A	A
	WATER CHILLER B	LOCAL-CF			19FA			3 C 40Y 14Y	CAI 20 35 35
		CB-5 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C1 3 S
*OP47 B 0001C	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH			643			1 SP643-000-01 *	SP643-000-01 *
1	CHILLED WATER REFRIG MACHINE	CCD/03-574			CARRIER CORP			2 A	A
	WATER CHILLER C	LOCAL-CF			19FA			3 C 40Y 14Y	CAI 20 35 35
		CB-5 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C1 3 S
*OP47 B 0001C	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH			643			1 SP643-000-01 *	SP643-000-01 *
	COMPRESS MOTOR FOR WATER CHILLER	CCD/03-574			CARRIER CORP			2 A	A
	WATER CHILLER	LOCAL-CF			19FA			3 C 40Y 40Y	AH 20 35 35
	COMPRESS MOTOR	CB-5 MILD			A4 J	N/A	N/A	4 YES	YES
								5 YES	C1 3 S
*OP47 C 0001A	CONTROL COMPLEX CHILLED WATER SYS	MECH			644			1	* SP644-000 00 *
1	SUPPLY TO CHILLED WATER SYS	CCD/02-574			INGERSOLL-RAND			2	A
	CONTROL COMPLEX CHIL	LOCAL-CF			8X14SD			3	AG NA NA NA
	LED WATER PUMP A	CB-5 MILD			A4 J	N/A	N/A	4	YES
								5	C1 2 S
*OP47 C 0001B	CONTROL COMPLEX CHILLED WATER SYS	MECH			644			1	* SP644-000 00 *
1	SUPPLY TO CHILLED WATER SYS	CCB/02-574			INGERSOLL-RAND			2	A
	CONTROL COMPLEX CHIL	LOCAL-CF			8X14SD			3	AG NA NA NA
	LED WATER PUMP B	CB-5 MILD			A4 J	N/A	N/A	4	YES
								5	C1 2 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/DP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OP47 C 0001C	CONTROL COMPLEX CHILLED WATER SYS	MECH	644	1	* SP644-000 00 *
1	SUPPLY TO CHILLED WATER SYS	CCC/02-574	INGERSOLL-RAND	2	A
	CONTROL COMPLEX CHIL	LOCAL-CF	8X14SD	3	AG NA NA NA
	LED WATER PUMP C	CB-3 MILD	A4 J N/A	N/A 4	YES
				5	C1 2 S
*OP47 F 0045A	CONTROL COMPLEX CHILLED WATER	MECH	60701	1 SP607-001-08 *	SP607-001-08 *
1	FLOW BYPASS COIL B TEMP CONTROL VA	CCE/02-679	FISHER CONTROLS	2 A	A
	3-WAY CONTROL VALVE	LOCAL-LM	4-YS	3 E 40Y 04Y	CLH 46 55
	THROTTLING SERVICE	CB-3 MILD	A4 J N/A 75.0 SEC	4 YES	YES
				5 YES	S 3
*OP47 F 0045B	CONTROL COMPLEX CHILLED WATER	MECH	60701	1 SP607-001-08 *	SP607-001-08 *
1	FLOW BYPASS COIL A TEMP CONTROL VA	CCB/02-679	FISHER CONTROLS	2 A	A
	3-WAY CONTROL VALVE	LOCAL-LM	4-YS	3 F 40Y 04Y	CLH 46 55
	THROTTLING SERVICE	CB-3 MILD	A4 J N/A 75.0 SEC	4 YES	YES
				5 YES	S 3
*OP47 F 0085A	CONTROL COMPLEX CHILLED WATER	MECH	60701	1 SP607-001-08 *	SP607-001-08 *
1	FLOW BYPASS COIL A TEMP CONTROL VA	CCD/03-679	FISHER CONTROLS	2 A	A
	3-WAY CONTROL VALVE	LOCAL-LM	4-YS	3 E 40Y 04Y	CLH 46 55
	THROTTLING SERVICE	CB-3 MILD	A4 J N/A 75.0 SEC	4 YES	YES
				5 YES	S 3
*OP47 F 0085B	CONTROL COMPLEX CHILLED WATER	MECH	60701	1 SP607-001-08 *	SP607-001-08 *
1	FLOW BYPASS COIL B TEMP CONTROL VA	CCC/03-679	FISHER CONTROLS	2 A	A
	3-WAY CONTROL VALVE	LOCAL-LM	4-YS	3 E 40Y 04Y	CLH 46 55
	THROTTLING SERVICE	CB-3 MILD	A4 J N/A 75.0 SEC	4 YES	YES
				5 YES	S 3
*OP47 F 0290A	CONTROL COMPLEX CHILLED WATER SYS	MECH	524	1	* SP524-000*03 *
1	NON-SAFETY COIL RET. ISOL.	CCD/03-679	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	CB-3 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2 EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-0-R
*OP47 F 0290B	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	524	1	* SP524-000*03 *
1	NON-SAFETY COIL RET. ISOL.	CCA/03-679	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	CB-3 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP47 F 0295A	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	524	1	* SP524-000*03 *
1	NON-SAFETY COIL SUPPLY ISOL.	CCD/03-679	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	CB-3 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP47 F 0295B	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	524	1	* SP524-000*03 *
1	NON-SAFETY COIL SUPPLY ISOL.	CCA/03-679	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	CB-3 MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*OP47 F 0506A	CONTROL COMPLEX CHILLED WATER	MECH	52101	1	* SP521-001 00 *
	CCCW PUMP AND CHILLER DISCH.	CCD/02-574	TRW MISSION	2	A
	10 INCH CHECK VALVE	LOCAL-LM	K15SPF-VBO	3	AH NA NA NA
		CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP47 F 0506B	CONTROL COMPLEX CHILLED WATER	MECH	52101	1	* SP521-001 00 *
	CCCW PUMP AND CHILLER DISCH.	CCD/02-574	TRW MISSION	2	A
	10 INCH CHECK VALVE	LOCAL-LM	K15SPF-VBO	3	AH NA NA NA
		CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP47 F 0506C	CONTROL COMPLEX CHILLED WATER	MECH	52101	1	* SP521-001 00 *
	CCCW PUMP AND CHILLER DISCH.	CCD/02-574	TRW MISSION	2	A
	10 INCH CHECK VALVE	LOCAL-LM	K15SPF-VBO	3	AH NA NA NA
		CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*OP47 F 0574A	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	523	1	* SP523-000*02 *
	THERMAL EXP. REL.	CCD/02-574	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP47 F 0574B	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	523	1	* SP523-000*02 *
	THERMAL EXP. REL.	CCD/02-574	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP47 F 0574C	CONTROL COMPLEX CHILLED WATER SYSTEM	MECH	523	1	* SP523-000*02 *
	THERMAL EXP. REL.	CCD/02-574	TARGET ROCK CORP.	2	A
	3/4 INCH X 1 INCH	LOCAL-LM	76H-001	3	CFH NA NA NA
	RELIEF VALVE	CB-5 MILD	A4 J N/A N/A	4	YES
				5	S 3
*OP49 C 0002A	EMERGENCY SERVICE WATER SCREEN WASH	MECH	D1 501	1	* SP501-000*00 *
	SCREEN WASH PUMP	EWA/05-586	GOULD	2	A
	VERTICAL PUMP	LOCAL-CF	6X8 JLC	3	AG 12 12 54
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E2 3 S
*OP49 C 0002B	EMERGENCY SERVICE WATER SCREEN WASH	MECH	D2 501	1	* SP501-000*00 *
	SCREEN WASH PUMP	EWA/03-586	GOULD	2	A
	VERTICAL PUMP	LOCAL-CF	6X8 JLC	3	AG 12 12 54
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E2 3 S
*OP49 D 0001A	EMERGENCY SERVICE WATER SCREEN WASH	MECH	505	1	* SP505-000*01 *
1	FILTER DEBRIS FROM ESW COOLING WATER	EWA/04-586	ENVIREX	2	A
	EMERG. SERVICE WATER	LOCAL-CF	REX FOUR POST	3	AG 04 28 41
	TRAVELING SCREEN	ES-W MILD	A4 J N/A N/A	4	YES
				5	E2 4 S

SELECT : 04EMECH

QUALIFICATIONS REVIEW LIST

SELECT :

AS OF 00651 06/28/84

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*OP49 D 0001A	EMERGENCY SERVICE WATER SCREEN WASH	MECH	505	1	* SP505-000*00 *
2	REDUCER CONNECTION MOTOR TO SCREEN	EWA/04-586	WESTINGHOUSE	2	A
	REDUCER	OP49 D 0001A	TYPE U	3	AG NA NA NA
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 3 S
*OP49 D 0001B	EMERGENCY SERVICE WATER SCREEN WASH	MECH	505	1	* SP505-000*01 *
1	FILTER DEBRIS FROM ESW COOLING WATER	EWA/04-586	ENVIREX	2	A
	EMERG. SERVICE WATER	LOCAL-CF	REX FOUR POST	3	AG 04 28 41
	TRAVELING SCREEN	ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 4 S
*OP49 D 0001F	EMERGENCY SERVICE WATER SCREEN WASH	MECH	505	1	* SP505-000*00 *
2	REDUCER CONNECTION MOTOR TO SCREEN	EWA/04-586	WESTINGHOUSE	2	A
	REDUCER	OP49 D 0001B	TYPE U	3	AG NA NA NA
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 3 S
*OP49 F 0502A	EMERG SERV WTR SCREEN WASH	MECH	52101	1	* SP521-001 00 *
	SCREEN WASH PUMP DISCH CHECK	EWA/04-580	TRW MISSION	2	A
	6 INCH CHECK VALVE	LOCAL-LM	K15SPF-V80	3	AH NA NA NA
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	S 3
*OP49 F 0502B	EMERG SERV WTR SCREEN WASH	MECH	52101	1	* SP521-001 00 *
	SCREEN WASH PUMP DISCH CHECK	EWA/03-580	TRW MISSION	2	A
	6 INCH CHECK VALVE	LOCAL-LM	K15SPF-V80	3	AH NA NA NA
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	S 3
*1B21 F 0016	NUCLEAR BOILER SYSTEM	MECH	52102	1	* SP521-002*06 *
1	FO22 ABC&D BEFORE SEAT DR.	C I/17-S24	BORG WARNER	2	A
	3 INCH GATE VALVES	LOCAL-LM	81180	3	AH 66 66 NA
		DW-1 HARSH H2	A1 A N/A 20.0 SEC	4	YES
				5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1B21 F 0019 1	NUCLEAR BOILER SYSTEM FO22 ABC&D BEFORE SEAT DR. 3 INCH GATE VALVES	MECH AXC/04-620 LOCAL-LM AB-7 HARSH	52102 BORG WARNER 81180 A1 J N/A 20.0 SEC	1 2 3 4 5	* SP521-002*06 * A AH 66 66 NA YES S H 3
*1B21 F 0022A	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE-INBOARD VALVE, AIR OPERATED	MECH C I/00-630 LOCAL-LM DW-1 HARSH	301 105D4935 ATWOOD & MORRILL NA A1 C N/A 0004 SEC	1 2 3 4 5	* SP301-S05-00 * C GE 3 S H
*1B21 F 0022A 2	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE -INBOARD ACTUATOR	MECH C I/00-630 1B21 F 0022A DW-1 HARSH	301 105D4935 SHEFFER SA-A34 A1 C N/A 0004 SEC	1 SP301-S05-00 * 2 C 3 T 4 5	SP301-S05-00 * C TA GE 3 S H
*1B21 F 0022B	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE-INBOARD VALVE, AIR OPERATED	MECH C I/00-630 LOCAL-LM DW-1 HARSH	301 105D4935 ATWOOD & MORRILL NA A1 C N/A 0004 SEC	1 2 3 4 5	* SP301-S05-00 * C GE 3 S H
*1B21 F 0022B 2	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE -INBOARD ACTUATOR	MECH C I/00-630 1B21 F 0022B DW-1 HARSH	301 105D4935 SHEFFER SA-A34 A1 C N/A 0004 SEC	1 SP301-S05-00 * 2 C 3 T 4 5	SP301-S05-00 * C TA GE 3 S H
*1B21 F 0022C	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE-INBOARD VALVE, AIR OPERATED	MECH C I/00-630 LOCAL-LM DW-1 HARSH	301 105D4935 ATWOOD & MORRILL NA A1 C N/A 0004 SEC	1 2 3 4 5	* SP301-S05-00 * C GE 3 S H

C D S	EQUIPMENT NUMBER	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-					SUM-SEI/SEI QFD
						LOCATION	MANUFACTURER	1-2	3-4	5	
			ZONE	M/H	H2	EC-FT-CAT-ACC-RT					
*1B21 F 0022C	2	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE - INBOARD ACTUATOR	301	105D4935	1	SP301-S05-00 *	1	SP301-S05-00 *	2	C	SP301-S05-00 *
			C I/OO-630	SHEFFER	2	C					
			1B21 F 0022C	SA-A34	3	T					
			DW-1 HARSH	A1 C	N/A	0004 SEC 4					
					5		GE	3	S	H	
*1B21 F 0022D	2	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE - INBOARD VALVE, AIR OPERATED	301	105D4935	1	SP301-S05-00 *	1	SP301-S05-00 *	2	C	SP301-S05-00 *
			C I/OO-630	ATWOOD & MORRILL	2	C					
			LOCAL-LM	NA	3						
			DW-1 HARSH	A1 C	N/A	0004 SEC 4					
					5		GE	3	S	H	
*1B21 F 0022D	2	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM MAIN STEAM ISOLATION VALVE - INBOARD ACTUATOR	301	105D4935	1	SP301-S05-00 *	1	SP301-S05-00 *	2	C	SP301-S05-00 *
			C I/OO-630	SHEFFER	2	C					
			1B21 F 0022D	SA-A34	3	T					
			DW-1 HARSH	A1 C	N/A	0004 SEC 4					
					5		GE	3	S	H	
*1B21 F 0024A	2	NUCLEAR BOILER SYSTEM FIRST MSIV ACCUM. SUPPLY 1 INCH CHECK VALVE	53104		1	SP531-004*01 *	1	SP531-004*01 *	2	A	SP531-004*01 *
			C I/O1-599	KEROTEST	2	A					
			LOCAL-LM	PP30508GV	3	AG	55	NA	NA	NA	NA
			DW-2 HARSH	A1 C	N/A	N/A					
					5		YES				
							S	H	3		
*1B21 F 0024B	2	NUCLEAR BOILER SYSTEM FIRST MSIV ACCUM. SUPPLY 1 INCH CHECK VALVE	53104		1	SP531-004*01 *	1	SP531-004*01 *	2	A	SP531-004*01 *
			C I/O1-599	KEROTEST	2	A					
			LOCAL-LM	PP30508GV	3	AG	55	NA	NA	NA	NA
			DW-2 HARSH	A1 C	N/A	N/A					
					5		YES				
							S	H	3		
*1B21 F 0024C	2	NUCLEAR BOILER SYSTEM FIRST MSIV ACCUM. SUPPLY 1 INCH CHECK VALVE	53104		1	SP531-004*01 *	1	SP531-004*01 *	2	A	SP531-004*01 *
			C I/O1-599	KEROTEST	2	A					
			LOCAL-LM	PP30508GV	3	AG	55	NA	NA	NA	NA
			DW-2 HARSH	A1 C	N/A	N/A					
					5		YES				
							S	H	3		

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0024D	NUCLEAR BOILER SYSTEM	MECH	53104		1	* SP531-004*01 *
	FIRST MSIV ACCUM. SUPPLY	C I/17-599	KEROTEST		2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV		3	AG 55 NA NA
		DW-2 HARSH	A1 C	N/A	N/A	4 YES
					5	S H 3
*1B21 F 0028A	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301	105D4935	1	* SP301-S05-00 *
	MAIN STEAM ISOLATION VALVE-OUTBOARD	AXC/05-620	ATWOOD & MORRILL		2	C
	VALVE, AIR OPERATED	LOCAL-LM	NA		3	
		AB-7 HARSH	A1 C	N/A 0004 SEC	4	
					5	GE 3 S H
*1B21 F 0028A	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301	105D4935	1	SP301-S05-00 *
2	MAIN STEAM ISOLATION VALVE -OUTBOARD	AXC/05-620	SHEFFER		2 C	SP301-S05-00 *
	ACTUATOR	1B21 F 0028A	SA-A34		3 T	C
		AB-7 HARSH	A1 C	N/A 0004 SEC	4	TA
					5	GE 3 S H
*1B21 F 0028B	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301	105D4935	1	* SP301-S05-00 *
	MAIN STEAM ISOLATION VALVE-OUTBOARD	AXC/04-620	ATWOOD & MORRILL		2	C
	VALVE, AIR OPERATED	LOCAL-LM	NA		3	
		AB-7 HARSH	A1 C	N/A 0004 SEC	4	
					5	GE 3 S H
*1B21 F 0028B	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301	105D4935	1	SP301-S05-00 *
2	MAIN STEAM ISOLATION VALVE -OUTBOARD	AXC/04-620	SHEFFER		2 C	SP301-S05-00 *
	ACTUATOR	1B21 F 0028B	SA-A34		3 T	C
		AB-7 HARSH	A1 C	N/A 0004 SEC	4	TA
					5	GE 3 S H
*1B21 F 0028C	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301	105D4935	1	* SP301-S05-00 *
	MAIN STEAM ISOLATION VALVE-OUTBOARD	AXC/06-620	ATWOOD & MORRIIL		2	C
	VALVE, AIR OPERATED	LOCAL-LM	NA		3	
		AB-7 HARSH	A1 C	N/A 0004 SEC	4	
					5	GE 3 S H

SELECT : 04EMECH
 SELECT :
 SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0028C	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301 105D4935	1 SP301-S05-00 *	SP301-S05-00 *
2	MAIN STEAM ISOLATION VALVE -OUTBOARD	AXC/06-620	SHEFFER	2 C	C
	ACTUATOR	1B21 F 0028C	SA-A34	3 T	TA
		AB-7 HARSH	A1 C N/A 0004 SEC	4	
				5	GE 3 S H
*1B21 F 0028D	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301 105D4935	1 *	SP301-S05-00 *
	MAIN STEAM ISOLATION VALVE-OUTBOARD	AXC/05-620	ATWOOD & MORRILL	2	C
	VALVE, AIR OPERATED	LOCAL-LM	NA	3	
		AB-7 HARSH	A1 C N/A 0004 SEC	4	
				5	GE 3 S H
*1B21 F 0028D	NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM	MECH	301 105D4935	1 SP301-S05-00 *	SP301-S05-00 *
2	MAIN STEAM ISOLATION VALVE -OUTBOARD	AXC/05-620	SHEFFER	2 C	C
	ACTUATOR	1B21 F 0028D	SA-A34	3 T	TA
		AB-7 HARSH	A1 C N/A 0004 SEC	4	
				5	GE 3 S H
*1B21 F 0029A	NUCLEAR BOILER SYSTEM	MECH	53104	1 *	SP531-004*01 *
	SECOND MSIV ACCUM. SUPPLY	AXC/04-620	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1B21 F 0029B	NUCLEAR BOILER SYSTEM	MECH	53104	1 *	SP531-004*01 *
	SECOND MSIV ACCUM. SUPPLY	AXC/04-620	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1B21 F 0029C	NUCLEAR BOILER SYSTEM	MECH	53104	1 *	SP531-004*01 *
	SECOND MSIV ACCUM. SUPPLY	AXC/04-605	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0029D	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	SECOND MSIV ACCUM. SUPPLY	AXC/04-605			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		AB-7 HARSH			A1 J	N/A	N/A	4	YES
								5	S 3
*1B21 F 0032A	NUCLEAR BOILER SYSTEM	MECH			52103			1	* SP521-003*12 *
	RX FEED CHECK	SMC/04-620			ROCKWELL			2	A
	20 INCH CHECK VALVE	LOCAL-LM			7592 (WCC) JNQTY			3	AH NA NA NA
		AB-7 HARSH			A1 J	N/A	N/A	4	YES
								5	S H 3
*1B21 F 0032B	NUCLEAR BOILER SYSTEM	MECH			52103			1	* SP521-003*12 *
	RX FEED CHECK	SMC/04-620			ROCKWELL			2	A
	20 INCH CHECK VALVE	LOCAL-LM			7592 (WCC) JNQTY			3	AH NA NA NA
		AB-7 HARSH			A1 J	N/A	N/A	4	YES
								5	S H 3
*1B21 F 0036C	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/04-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2		A1 D	N/A	N/A	4	YES
								5	LATER S H 3
*1B21 F 0036D	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/16-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2		A1 D	N/A	N/A	4	YES
								5	LATER S H 3
*1B21 F 0036G	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/02-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2		A1 D	N/A	N/A	4	YES
								5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0036H	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/15-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0036J	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/14-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0036K	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/03-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0036M	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/15-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0036N	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/02-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0036R	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/01-599			KEROTEST			2	A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-AJC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0036S	NUCLEAR BOILER SYSTEM	MECH	53104	1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/15-599	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV	3	AG 55 NA NA
		DW-1 HARSH	A1 D N/A	N/A 4	YES
				5	LATER S H 3
*1B21 F 0036U	NUCLEAR BOILER SYSTEM	MECH	53104	1	* SP531-004*01 *
	INST. AIR TO RELIEF VALVE	C I/17-599	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	PP30508GV	3	AG 55 NA NA
		DW-1 HARSH	A1 D N/A	N/A 4	YES
				5	LATER S H 3
*1B21 F 0037A	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/03-624	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037B	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/13-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037C	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/06-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037D	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-620	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0037E	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/01-624	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037F	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/13-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037G	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/16-620	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037H	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/16-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037J	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/05-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0037K	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/04-599	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1B21 F 0037L	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/16-599 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0037M	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/16-624 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0037N	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/02-624 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0037P	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/17-599 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0037R	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/01-599 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0037S	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/13-599 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0037T	NUCLEAR BOILER SYSTEM	MECH			639			* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/05-599			ANDERSON-GREENWOOD			A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		YES
								S H 8
*1B21 F 0037U	NUCLEAR BOILER SYSTEM	MECH			639			* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-599			ANDERSON-GREENWOOD			A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		YES
								S H 8
*1B21 F 0037V	NUCLEAR BOILER SYSTEM	MECH			639			* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/04-620			ANDERSON-GREENWOOD			A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		YES
								S H 8
*1B21 F 0039A	NUCLEAR BOILER SYSTEM	MECH			53104			* SP531-004*01 *
	P57AIR TO RELIEFF VALVE	C I/15-624			KEROTEST			A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			AG 55 NA NA
		DW-1 HARSH	H2		A1 D N/A	N/A		YES
							LATER	S H 3
*1B21 F 0039B	NUCLEAR BOILER SYSTEM	MECH			53104			* SP531-004*01 *
	P57AIR TO RELIEFF VALVE	C I/15-624			KEROTEST			A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			AG 55 NA NA
		DW-1 HARSH	H2		A1 D N/A	N/A		YES
							LATER	S H 3
*1B21 F 0039E	NUCLEAR BOILER SYSTEM	MECH			53104			* SP531-004*01 *
	P57AIR TO RELIEFF VALVE	C I/15-624			KEROTEST			A
	1 INCH CHECK VALVE	LOCAL-LM			PP30508GV			AG 55 NA NA
		DW-1 HARSH	H2		A1 D N/A	N/A		YES
							LATER	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0039F	NUCLEAR BOILER SYSTEM P57AIR TO RELIEF VALVE 1 INCH CHECK VALVE	MECH			53104		1	* SP531-004*01 *
		C I/15-624			KEROTEST		2	A
		LOCAL-LM			PP30508GV		3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0039L	NUCLEAR BOILER SYSTEM P57AIR TO RELIEF VALVE 1 INCH CHECK VALVE	MECH			53104		1	* SP531-004*01 *
		C I/15-624			KEROTEST		2	A
		LOCAL-LM			PP30508GV		3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0039P	NUCLEAR BOILER SYSTEM P57AIR TO RELIEF VALVE 1 INCH CHECK VALVE	MECH			53104		1	* SP531-004*01 *
		C I/15-624			KEROTEST		2	A
		LOCAL-LM			PP30508GV		3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0039T	NUCLEAR BOILER SYSTEM P57AIR TO RELIEF VALVE 1 INCH CHECK VALVE	MECH			53104		1	* SP531-004*01 *
		C I/15-624			KEROTEST		2	A
		LOCAL-LM			PP30508GV		3	AG 55 NA NA
		DW-1 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0039V	NUCLEAR BOILER SYSTEM ACCUM. DR. 1 INCH CHECK VALVE	MECH			53104		1	* SP531-004*01 *
		C I/15-624			KEROTEST		2	A
		LOCAL-LM			PP30508GV		3	AG 55 NA NA
		DW-1 HARSH			A1 D	N/A	4	YES
							5	S H 3
*1B21 F 0040	NUCLEAR BOILER SYSTEM DR. TO DW. EQPT. DR. SUMP VAC BKR. 2 INCH CHECK VALVE	MECH			53104		1	* SP531-004*05 *
		C I/04-620			KEROTEST		2	A
		LOCAL-LM			D30616		3	AG 40 NA NA
		DW-1 HARSH	H2	A1 J	N/A	N/A	4	YES
							5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----		
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD		
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D		
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R		
*1B21 F 0041A	AUTOMATIC DEPRESSURIZATION SYSTEM ADS VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/02-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H
*1B21 F 0041B	AUTOMATIC DEPRESSURIZATION SYSTEM ADS VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/14-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H
*1B21 F 0041C	AUTOMATIC DEPRESSURIZATION SYSTEM SAFETY RELIEF VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/04-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H
*1B21 F 0041D	AUTOMATIC DEPRESSURIZATION SYSTEM SAFETY RELIEF VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/16-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H
*1B21 F 0041E	AUTOMATIC DEPRESSURIZATION SYSTEM ADS VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/01-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H
*1B21 F 0041F	AUTOMATIC DEPRESSURIZATION SYSTEM ADS VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/15-630 LOCAL-LM DW-2 HARSH	H2 A1 I	301 DIKKERS G471-6/125.04 N/A	768E584P10 N/A	1 SP301-S02-00 * 2 C 3 T 4 5	SP301-S02-00 * C TA GE 3 S H

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT				5 ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
*1B21 F 0041G	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P10		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/03-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H
*1B21 F 0041K	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P10		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/16-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H
*1B21 F 0047B	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/14-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H
*1B21 F 0047C	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/03-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H
*1B21 F 0047D	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-00 *
	ADS VALVE	C I/16-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H
*1B21 F 0047F	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/16-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2	A1 I	N/A		N/A	4	
								5	GE 3 S H

SELECT : 04EMECH

SELECT :

SDRT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-0-R
*1B21 F 0047G	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/02-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H
*1B21 F 0047H	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P14		1 SP301-S02-00 *	SP301-S02-CO *
	ADS VALVE	C I/17-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H
*1B21 F 0051A	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P15		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/01-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H
*1B21 F 0051B	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P15		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/15-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H
*1B21 F 0051C	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P15		1 SP301-S02-00 *	SP301-S02-00 *
	ADS VALVE	C I/04-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H
*1B21 F 0051D	AUTOMATIC DEPRESSURIZATION SYSTEM	MECH			301	768E584P15		1 SP301-S02-00 *	SP301-S02-00 *
	SAFETY RELIEF VALVE	C I/17-630			DIKKERS			2 C	C
	DUAL FUNCTION SAFETY	LOCAL-LM			G471-6/125.04			3 T	TA
	/RELIEF VALVE	DW-2 HARSH	H2		A1 I	N/A	N/A	4	
								5	GE 3 S H

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1B21 F 0051G	AUTOMATIC DEPRESSURIZATION SYSTEM ADS VALVE DUAL FUNCTION SAFETY /RELIEF VALVE	MECH C I/03-630 LOCAL-LM DW-2 HARSH H2	301 DIKKERS G471-6/125.04 A1 I N/A	768E584P15 1 2 C 3 T N/A 4 5	SP301-S02-00 * SP301-S02-00 * C TA GE 3 S H
*1B21 F 0065A 1	NUCLEAR BOILER SYSTEM RX. FEEDWATER ISO. 20 INCH GATE VALVES	MECH AXB/06-605 LOCAL-LM AB-7 HARSH	52102 BORG WARNER 81160-1 A1 B N/A	84.0 SEC 4 5	* SP521-002*30 * A AH 39 39 NA YES S H 3
*1B21 F 0065B 1	NUCLEAR BOILER SYSTEM RX. FEEDWATER ISO. 20 INCH GATE VALVES	MECH AXB/04-620 LOCAL-LM AB-7 HARSH	52102 BORG WARNER 81160 A1 B N/A	90.0 SEC 4 5	* SP521-002*68 * A AH 49 49 NA YES S H 3
*1B21 F 0067A 1	NUCLEAR BOILER SYSTEM OUTBRD. MSIV BEFORE SEAT DR. 1-1/2 INCH GLOBE VALVES	MECH AXC/05-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15004MPRT1 A1 J N/A	N/A 4 5	* B *
*1B21 F 0067B 1	NUCLEAR BOILER SYSTEM OUTBRD. MSIV BEFORE SEAT DR. 1-1/2 INCH GLOBE VALVES	MECH AXC/04-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15004MPRT1 A1 J N/A	N/A 4 5	* B *
*1B21 F 0067C 1	NUCLEAR BOILER SYSTEM OUTBRD. MSIV BEFORE SEAT DR. 1-1/2 INCH GLOBE VALVES	MECH AXC/05-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15004MPRT1 A1 J N/A	N/A 4 5	* B *

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1B21 F 0067D 1	NUCLEAR BOILER SYSTEM OUTBRD. MSIV BEFORE SEAT DR. 1-1/2 INCH GLOBE VALVE	MECH AXC/05-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15004MPRT1 A1 I N/A N/A	1 2 3 4 5	* B *
*1B21 F 0068 1	NUCLEAR BOILER SYSTEM STEAM LINE OUTBOARD DRAIN 2 INCH GLOBE VALVE	MECH AXB/04-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15014MPT2 A1 J N/A	1 2 3 4 5	* B S 3
*1B21 F 0069	NUCLEAR BOILER SYSTEM FO28ABC&D BEFORE SEAT DRAIN ISOL VA CONTROL VALVE ON-OFF SERVICE	MECH AXB/04-620 LOCAL-LM AB-7 HARSH	60701 FISHER CONTROLS 1DBQNS-667NS(45) A1 A N/A 10.0 SEC	1 SP607-001-01 * 2 A 3 E 40Y 04Y 4 YES 5 YES	SP607-001-03 * A AH 58 YES S 3
*1B21 F 0078A	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/03-620 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0078B	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/13-620 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8
*1B21 F 0078C	NUCLEAR BOILER SYSTEM MAIN STEAM RELIEF VACUUM BKR. 6 INCH CHECK VALVE	MECH C I/07-620 LOCAL-LM DW-2 HARSH	639 ANDERSON-GREENWOOD NO4-2217-530 A1 C N/A N/A	1 2 3 4 5	* SP639-000*02 * A AH NA NA NA YES S H 8

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0078D	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-605	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0078E	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/01-623	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0078F	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/13-620	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0078G	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/03-624	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0078H	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/16-624	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8
*1B21 F 0078J	NUCLEAR BOILER SYSTEM	MECH	639	1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/13-620	ANDERSON-GREENWOOD	2	A
	6 INCH CHECK VALVE	LOCAL-LM	NO4-2217-530	3	AH NA NA NA
		DW-2 HARSH	A1 C N/A	N/A 4	YES
				5	S H 8

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0078K	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/04-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8
*1B21 F 0078L	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8
*1B21 F 0078M	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/16-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8
*1B21 F 0078N	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/01-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8
*1B21 F 0078P	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8
*1B21 F 0078R	NUCLEAR BOILER SYSTEM	MECH			639		1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/01-620			ANDERSON-GREENWOOD		2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530		3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A	4	YES
							5	S H 8

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMJ	RRS-DP-LDS S-O-R
*1B21 F 0078S	NUCLEAR BOILER SYSTEM	MECH			639			1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/13-620			ANDERSON-GREENWOOD			2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		4	YES
								5	S H 8
*1B21 F 0078T	NUCLEAR BOILER SYSTEM	MECH			639			1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/05-620			ANDERSON-GREENWOOD			2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		4	YES
								5	S H 8
*1B21 F 0078U	NUCLEAR BOILER SYSTEM	MECH			639			1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/17-620			ANDERSON-GREENWOOD			2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		4	YES
								5	S H 8
*1B21 F 0078V	NUCLEAR BOILER SYSTEM	MECH			639			1	* SP639-000*02 *
	MAIN STEAM RELIEF VACUUM BKR.	C I/04-620			ANDERSON-GREENWOOD			2	A
	6 INCH CHECK VALVE	LOCAL-LM			NO4-2217-530			3	AH NA NA NA
		DW-2 HARSH			A1 C N/A	N/A		4	YES
								5	S H 8
*1B21 F 0100A	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2		A1 D N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100B	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2		A1 D N/A	N/A		4	YES
								5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0100C	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100D	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100E	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D31606			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100F	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100G	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/16-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3
*1B21 F 0100H	NUCLEAR BOILER SYSTEM	MECH			53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/16-624			KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A		4	YES
								5	LATER S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0100J	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0100K	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/03-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0100L	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D31606			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0100M	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/16-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D31606			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0100N	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/16-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3
*1B21 F 0100P	NUCLEAR BOILER SYSTEM	MECH		53104			1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624		KEROTEST			2	A
	2 INCH CHECK VALVE	LOCAL-LM		D30616			3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A	4	YES
							5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	GE	PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER				1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL					3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT				5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B21 F 0100R	NUCLEAR BOILER SYSTEM	MECH			53104				1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/17-624			KEROTEST				2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616				3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A			4	YES
									5	LATER S H 3
*1B21 F 0100S	NUCLEAR BOILER SYSTEM	MECH			53104				1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624			KEROTEST				2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616				3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A			4	YES
									5	LATER S H 3
*1B21 F 0100T	NUCLEAR BOILER SYSTEM	MECH			53104				1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/15-624			KEROTEST				2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616				3	AG 40 NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A			4	YES
									5	LATER S H 3
*1E21 F 0100U	NUCLEAR BOILER SYSTEM	MECH			53101				1	* SP531-001*02 *
	RELIEF VALVE VACUUM BREAK	C I/19-624			DRESSER				2	A
	2 INCH CHECK VALVE	LOCAL-LM			5580W				3	AH NA NA NA
		DW-2 HARSH	H2	A1 D	N/A	N/A			4	YES
									5	LATER S H 3
*1B21 F 0100V	NUCLEAR BOILER SYSTEM	MECH			53101				1	* SP531-001*02 *
	RELIEF VALVE VACUUM BREAK	C I/03-624			DRESSER				2	A
	2 INCH CHECK VALVE	LOCAL-LM			5580W				3	AH NA NA NA
		CT-1 HARSH	H2	A1 D	N/A	N/A			4	YES
									5	LATER S H 3
*1B33 F 0013A	REACTOR RECIRC VALVE FLOW CONTROL	MECH			53101				1	* SP531-001*02 *
	RECIRC PUMP SEAL PURGE SUPPLY	C I/08-593			DRESSER				2	A
	3/4 INCH CHECK	LOCAL-LM			7440W				3	AH NA NA NA
	VALVES	DW-1 HARSH		A1 C	N/A	N/A			4	YES
									5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/DP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1B33 F 0013B	REACTOR RECIRC VALVE FLOW CONTROL RECIRC PUMP SEAL PURGE SUPPLY 3/4 INCH CHECK VALVE	MECH C I/17-593 LOCAL-LM DW-1 HARSH	53101 DRESSER 7440W A1 C N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1B33 F 0017A	REACTOR RECIRC VALVE FLOW CONTROL RECIRC PUMP SEAL PURGE SUPPLY 3/4 INCH CHECK VALVE	MECH C O/ -620 LOCAL-LM CT-3 HARSH	53101 DRESSER 7440W A1 C N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1B33 F 0017B	REACTOR RECIRC VALVE FLOW CONTROL RECIRC PUMP SEAL PURGE SUPPLY 3/4 INCH CHECK VALVE	MECH C O/ -620 LOCAL-LM CT-3 HARSH	53101 DRESSER 7440W A1 C N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1B33 F 0019	REACTOR RECIRCULATION SYSTEM REACTOR WATER SAMPLE LINE ISOLATION CONTROL VALVE ON-OFF SERVICE	MECH C O/02-620 LOCAL-CW CT-3 HARSH	60701 FISHER CONTROLS 1DBQNS667NS(40) A1 A N/A 5.00 SEC	1 2 3 4 5	SP607-001-01 * A E 40Y 02Y YES S H 3 SP607-001-02 * C AH 99 99 YES
*1B33 F 0020	REACTOR RECIRCULATION SYSTEM REACTOR WATER SAMPLE LINE ISOLATION CONTROL VALVE ON-OFF SERVICE	MECH C O/02-620 LOCAL-CW CT-3 HARSH	60701 FISHER CONTROLS 1DBQNS667NS(40) A1 A N/A 5.00 SEC	1 2 3 4 5	SP607-001-01 * A E 40Y 04Y YES S H 3 SP607-001-02 * C AH 99 99 YES
*1C11 F 0010	CONTROL ROD DRIVE HYDRAULIC SYSTEM SCRAM DISCH VOLUME VENT VALVE AIR OPERATED VALVE	MECH C O/02-642 LOCAL-CW CT-4 HARSH H2	301 22A6924AA HAMMER DAHL V522F/A41AD A1 E N/A N/A	1 2 3 4 5	SP301-A04-00 * B T YES EQ644 4 S H SP301-A04-00 * B TA 60 20 99 YES

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-1.2 DEMO	RRS-DP-LDS S-O-R
*1C11 F 0011	CONTROL ROD DRIVE HYDRAULIC SYSTEM	MECH	301 22A6924AB	1 SP301-A04-00 *	SP301-A04-00 *
	SCRAM DISCH VOLUME DRAIN VALVE	C 0/09-620	HAMMER DAHL	2 B	B
	AIR OPERATED VALVE	LOCAL-CW	V522J/A41AG	3 T	TA 51 32 99
		CT-3 HARSH H2	A1 E N/A	N/A 4	YES
				5	EQ620 4 S H
*1C11 F 0083	CONT ROD DRIVE HYDRAULIC CONT SYSTEM	MECH	52102	1	* SP521-002*47 *
1	PEN 204 OUTBOARD ISO	IBC/08-620	BORG WARNER	2	A
	2-1/2 INCH GATE	LOCAL-LM	85110	3	AH 48 48 NA
	VALVES	FB-2 MILD	A4 J N/A 12.0 SEC	4	YES
				5	S H 3
*1C11 F 0122	CONTROL ROD DRIVE HYDRAULIC CONTROL	MECH	52102	1	* SP521-002*54 *
	PEN P204 INBOARD ISO	C 0/07-620	BORG WARNER	2	A
	2-1/2 INCH CHECK	LOCAL-LM	82530	3	AH NA NA NA
	VALVE	CT-3 HARSH H2	A1 J N/A	N/A 4	YES
				5	LATER S H 3
*1C11 F 0180	CONTROL ROD DRIVE HYDRAULIC SYSTEM	MECH	301 22A6924AA	1 SP301-A04-00 *	SP301-A04-00 *
	SCRAM DISCH VOLUME VENT VALVE	C 0/02-642	HAMMER DAHL	2 B	B
	AIR OPERATED VALVE	LOCAL-CW	V522F/A41AD	3 T	TA 60 20 99
		CT-4 HARSH H2	A1 E N/A	N/A 4	YES
				5	EQ644 4 S H
*1C11 F 0181	CONTROL ROD DRIVE HYDRAULIC SYSTEM	MECH	301 22A6924AB	1 SP301-A04-00 *	SP301-A04-00 *
	SCRAM DISCH VOLUME DRAIN VALVE	C 0/09-620	HAMMER DAHL	2 B	B
	AIR OPERATED VALVE	LOCAL-CW	V522J/A41AG	3 T	TA 51 32 99
		CT-3 HARSH H2	A1 E N/A	N/A 4	YES
				5	EQ620 4 S H
*1C41 C 0001A	STANDBY LIQUID CONTROL SYSTEM	MECH	301 21A1921AE	1	* SP301-M04-00 *
1	STANDBY LIQUID CONTROL PUMP	C 0/16-630	UNION PUMP	2	B
	PUMP	LOCAL-CF	2X3TD60	3	AG NA NA NA
		CT-4 HARSH H2	A1 H N/A	N/A 4	YES
				5	EQ644 3 S H

SELECT : 04EMECH
 SELECT :
 SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1C41 C 0001B	STANDBY LIQUID CONTROL SYSTEM	MECH	301	21A1921AE	1	* SP301-MO4-00 *
1	STANDBY LIQUID CONTROL PUMP	C O/16-630	UNION PUMP		2	B
	PUMP	LOCAL-CF	2X3TD60		3	AG 99 99 99
		CT-4 HARSH H2	A1 H N/A	N/A	4	YES
					5	EQ644 3 S H
*1C41 F 0001A	STANDBY LIQUID LEVEL CONTROL	MECH	53106		1	* * *
1	STORAGE TANK ISO	C O/15-642	ROCKWELL		2	B
	4 INCH GLOBE VALVE	LOCAL-LM	36128MPT2(F316)		3	
		CT-4 HARSH	A1 R N/A	20.0 SEC	4	
					5	
*1C41 F 0001B	STANDBY LIQUID LEVEL CONTROL	MECH	53106		1	* * *
1	STORAGE TANK ISO	C O/15-642	ROCKWELL		2	B
	4 INCH GLOBE VALVE	LOCAL-LM	36128MPT2(F316)		3	
		CT-4 HARSH	A1 B N/A	20.0 SEC	4	
					5	
*1C41 F 0006	STANDBY LIQUID LEVEL CONTROL	MECH	53101		1	* SP531-001*02 *
	SLC TO RPV DW ISO. OUTSIDE	C O/ -642	DRESSER		2	A
	1-1/2 INCH CHECK	LOCAL-LM	7440W		3	AH NA NA NA
	VALVE	CT-4 HARSH	A1 J N/A	N/A	4	YES
					5	S H 3
*1C41 F 0007	STANDBY LIQUID LEVEL CONTROL	MECH	53101		1	* SP531-001*02 *
	SLC TO RPV DW ISO. INSIDE	C I/14-620	DRESSER		2	A
	1-1/2 INCH CHECK	LOCAL-LM	7440W		3	AH NA NA NA
	VALVE	DW-1 HARSH	A1 J N/A	N/A	4	YES
					5	S H 3
*1C41 F 0029A	STANDBY LIQUID LEVEL CONTROL	MECH	523		1	* SP523-000*02 *
	PUMP A DISCH. RLF	C O/16-642	TARGET ROCK CORP.		2	A
	1-1/2 INCH X 2 INCH	LOCAL-LM	76H-012		3	CFH NA NA NA
	RELIEF VALVE	CT-4 HARSH	A1 J N/A	N/A	4	YES
					5	S 3

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PJRCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1C41 F 00293	STANDBY LIQUID LEVEL CONTROL PUMP B DISCH. RLF 1-1/2 INCH X 2 INCH RELIEF VALVE	MECH C O/16-642 LOCAL-LM CT-4 HARSH	523 TARGET ROCK CORP. 76H-012 A1 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1C41 F 0033A	STANDBY LIQUID LEVEL CONTROL SLC PUMP DISCH. 1-1/2 INCH CHECK VALVE	MECH C O/ -642 LOCAL-LM CT-3 HARSH	53101 DRESSER 744OW A1 J N/A N/A	1 2 3 4 5	* SP531-001*01 * A AH NA NA NA YES S H 3
*1C41 F 0033B	STANDBY LIQUID LEVEL CONTROL SLC PUMP DISCH. 1-1/2 INCH CHECK VALVE	MECH C O/ -642 LOCAL-LM CT-3 HARSH	53101 DRESSER 744OW A1 J N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1C41 F 0520	STANDBY LIQUID LEVEL CONTROL CONTAINMENT ISOLATION 2 INCH CHECK VALVE	MECH C O/ -664 LOCAL-LM CT-4 HARSH	53104 KEROTEST D30516 A1 J N/A N/A	1 2 3 4 5	* SP531-004*05 * A AG 40 NA NA YES S H 3
*1D17 F 0071A 1	PLANT RADIATION MONITORING SYSTEM DW ATMOS MONITORING OUTBD 1 INCH BALL VALVES	MECH IBB/07-620 LOCAL-LM FB-2 MILD	524 CONTROMATICS C-9922-CC A4 A N/A	1 2 3 4 5	* SP524-000*08 * A TA 41 36 NA YES S 3
*1D17 F 0071B 1	PLANT RADIATION MONITORING SYSTEM DW ATMOS MONITORING INBD 1 INCH BALL VALVES	MECH C O/08-620 LOCAL-LM CT-3 HARSH	524 CONTROMATICS C-9922-CC A1 A N/A	1 2 3 4 5	* D *

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ELEV ZONE M/H H2	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EQ-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1D17 F 0081A 1	PLANT RADIATION MONITORING SYSTEM CNT ATMOS MONITORING OUTBD 1 INCH BALL VALVES	MECH IBF/06-665 LOCAL-LM FB-4 MILD	524 CONTROMATICS C-9922-CC A4 A N/A	1 2 3 4 5	* SP524-000*08 * A TA 41 36 NA YES S 3
*1D17 F 0081B 1	PLANT RADIATION MONITORING SYSTEM CNT ATMOS MONITORING INBD 1 INCH BALL VALVES	MECH C O/11-664 LOCAL-LM C1-7 HARSH	524 CONTROMATICS C-9922-CC A1 A N/A	1 2 3 4 5	* D *
*1E12 C 0002A 1	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PUMP	MECH D1 AXB/07-568 LOCAL-CF AB-4 HARSH	301 21A3504AK BYRON JACKSON 30DX-20CKH2 A1 I N/A	1 2 3 4 5	* SP301-501-00 * B CKL 19 18 57 YES A1 2 S
*1E12 C 0002B 1	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PUMP	MECH D2 AXB/04-568 LOCAL-CF AB-4 HARSH	301 21A3504AK BYRON JACKSON 30DX-20CKH2 A1 I N/A	1 2 3 4 5	* SP301-501-00 * B CKL 19 18 57 YES A1 2 S
*1E12 C 0002C 1	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PUMP	MECH D2 AXB/05-568 LOCAL-CF AB-4 HARSH	301 21A3504AK BYRON JACKSON 30DX-20CKH2 A1 I N/A	1 2 3 4 5	* SP301-501-00 * B CKL 19 18 57 YES A1 2 S
*1E12 C 0003 1	RESIDUAL HEAT REMOVAL SYSTEM WATER LEG PUMP VERTICALLY SPLIT HORIZONTAL PUMP	MECH AXB/05-574 LOCAL-CF AB-4 HARSH	506 BINGHAM-WILLAMETTE 2X2X7-1/2 CAP A4 J N/A	1 2 3 4 5	* SP506-000 00 * A AG NA NA NA YES A1 1 S

SELECT : 04EMECH
 SELECT :
 SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-MCC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1E12 F 0006B 1	RESIDUAL HEAT REMOVAL SYSTEM SHUTDOWN SUCT. TO LOOP B ISO 18 INCH GATE VALVES	MECH AXC/03-574 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81150 A1 J N/A 87.2 SEC	1 2 3 4 5	* SP521-002*42 * A AH 65 65 NA YES S 3
*1E12 F 0008 1	RESIDUAL HEAT REMOVAL SYSTEM PEN P421 OUTBRD ISO. PNEU. TEST 20 INCH GATE VALVES	MECH AXC/05-620 LOCAL-LM AB-7 HARSH	52102 BORG WARNER 81230 A1 J N/A 34.0 SEC	1 2 3 4 5	* SP521-002*24 * A AH 60 60 NA YES S H 3
*1E12 F 0009 1	RESIDUAL HEAT REMOVAL SYSTEM PEN P421 INBD. ISO. CLS=33 SEC. 20 INCH GATE VALVES	MECH C I/01-605 LOCAL-LM DW-1 HARSH H2	52102 BORG WARNER 81230-1 A1 A N/A 34.0 SEC	1 2 3 4 5	* SP521-002*24 * A AH 60 60 NA YES LATER S H 3
*1E12 F 0011A 1	RESIDUAL HEAT REMOVAL SYSTEM RHR STEAM COND. TO SUPP. POOL 4 INCH GLOBE VALVES	MECH AXC/07-599 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81300-1 A3 J N/A 32.7 SEC	1 2 3 4 5	* SP521-002*38 * A AH 41 41 NA YES S H 3
*1E12 F 0011B 1	RESIDUAL HEAT REMOVAL SYSTEM RHR STEAM COND. TO SUPP. POOL 4 INCH GLOBE VALVES	MECH AXC/03-599 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81300 A3 J N/A 32.7 SEC	1 2 3 4 5	* SP521-002*38 * A AH 41 41 NA YES S H 3
*1E12 F 0017A 1	RESIDUAL HEAT REMOVAL SYSTEM PUMP SUCTION RELIEF 1 INCH X 2 INCH RELIEF VALVE	MECH AXC/05-574 LOCAL-LM AB-4 HARSH	523 TARGET ROCK CORP. 76H-005 A2 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0017B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	523	1	* SP523-000*02 *
	PUMP SUCTION RELIEF	AXC/03-574	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-005	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1E12 F 0017C	RESIDUAL HEAT REMOVAL SYSTEM	MECH	523	1	* SP523-000*02 *
	PUMP SUCTION RELIEF	AXC/04-574	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-005	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1E12 F 0019	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*53 *
	RHR TO RPV HEAD SPRAY	AXC/06-620	BORG WARNER	2	A
	6 INCH CHECK VALVE	LOCAL-LM	81490	3	AH NA NA NA
		AB-4 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1E12 F 0020	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52101	1	* SP521-001 00 *
	FLUSH WATER TO SHUTDOWN SUCTION	AXC/04-620	TRW MISSION	2	A
	8 INCH CHECK VALVE	LOCAL-LM	K30SPF-V76	3	AH NA NA NA
		AB-4 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1E12 F 0021	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*55 *
1	C PMP TEST TO SUPP. POOL	AXC/04-599	BORG WARNER	2	A
	18 INCH GLOBE VALVES	LOCAL-LM	81340-1	3	AH 45 45 NA
		AB-4 HARSH	A3 J N/A 79.0 SEC	4	YES
				5	S H 3
*1E12 F 0023	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*15 *
1	RHR TO RPV HEAD SPRAY ISO MAX 330PSI	AXC/06-620	BORG WARNER	2	A
	6 INCH GLOBE VALVES	LOCAL-LM	81370	3	AH 51 51 NA
		AB-4 HARSH	A1 J N/A 34.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0024A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*42 *
1	A PMP TEST TO SUPP.POOL MAX O/C 90SE	AXC/07-599	BORG WARNER	2	A
	18 INCH GATE VALVES	LOCAL-LM	81150-1	3	AH 65 65 NA
		AB-4 HARSH	A3 J N/A 87.2 SEC	4	YES
				5	S H 3
*1E12 F 0024B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*42 *
1	B PMP TEST TO SUPP.POOL MAX O/C 90S	AXC/03-599	BORG WARNER	2	A
	18 INCH GATE VALVES	LOCAL-LM	81150-1	3	AH 65 65 NA
		AB-4 HARSH	A3 J N/A 87.2 SEC	4	YES
				5	S H 3
*1E12 F 0025A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	523	1	* SP523-000*02 *
	LPC1 LINE RELIEF	AXC/06-599	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-005	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1E12 F 0025B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	523	1	* SP523-000*02 *
	LPC1 LINE RELIEF	AXC/04-599	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-005	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1E12 F 0025C	RESIDUAL HEAT REMOVAL SYSTEM	MECH	523	1	* SP523-000*02 *
	LPC1 LINE RELIEF	AXC/04-599	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-005	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1E12 F 0026A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	52102	1	* SP521-002*44 *
1	RHR STEAM COND TO RCIC PUMP SUCT ISO	AXB/06-574	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81110	3	AH 54 54 NA
		AB-4 HARSH	A3 J N/A 20.0 SEC	4	YES
				5	S 3

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 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT		DESCRIPTIONS	DIAGRAM REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-			SEISMIC
D NUMBER	S	SERVICE (2) EQUIPMENT (2)	LOCATION	SUPPORT	ELEV MODEL	MANUFACTURER	1-2 SUM-ENV/ENV QFD	M-LNF MI/OPD-SEAL	M-LNF FB-SS-V/OP D	SUM-SEI/SEI QFD
							3-4	5	ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
			ZONE	M/H	H2	EC-FT-CAT-ACC-RT				
*1E12 F 0031B		RESIDUAL HEAT REMOVAL SYSTEM PUMP DISCH CHK 18 INCH CHECK VALVE	MECH		52101		1	*	SP521-001 00 *	
			AXB/03-574		TRW MISSION		2		A	
			LOCAL-LM		K30SPF-V74		3		AH	NA NA NA
			AB-4 HARSH		A1 J	N/A	4		YES	
							5			S 3
*1E12 F 0031C		RESIDUAL HEAT REMOVAL SYSTEM PUMP DISCH CHK 18 INCH CHECK VALVE	MECH		52101		1	*	SP521-001 00 *	
			AXB/05-574		TRW MISSION		2		A	
			LOCAL-LM		K30SPF-V74		3		AH	NA NA NA
			AB-4 HARSH		A1 J	N/A	4		YES	
							5			S 3
*1E12 F 0036		RESIDUAL HEAT REMOVAL SYSTEM RHR TO RCIC PMP SUCT RELIEF 3 INCH X 4 INCH RELIEF VALVES	MECH		523	TARGET ROCK CORP.	1	*	SP523-000*02 *	
			AXB/05-574		76H-010		2		A	
			LOCAL-LM		A3 J	N/A	3		CFH	NA NA NA
			AB-3 HARSH				4		YES	
							5			S 3
*1E12 F 0037A		RESIDUAL HEAT REMOVAL SYSTEM RHR TO CONT POOLS TP. MAX P330PSI 12 INCH GLOBE VALVES	MECH		52102		1	*	SP521-002*19 *	
			C O/01-664		BORG WARNER		2		A	
			LOCAL-LM		82350		3		AH	55 55 NA
			CT-8 HARSH		A1 J	N/A	4		YES	
							5			LATER S H 3
*1E12 F 0037B		RESIDUAL HEAT REMOVAL SYSTEM RHR TO CONT POOLS TP. MAX P330PSI 12 INCH GLOBE VALVES	MECH		52102		1	*	SP521-002*18 *	
			C O/17-642		BORG WARNER		2		A	
			LOCAL-LM		82350-1		3		AH	54 54 NA
			CT-7 HARSH		A1 J	N/A	4		YES	
							5			LATER S H 3
*1E12 F 0040		RESIDUAL HEAT REMOVAL SYSTEM RHR "A" LRW SYS CONTROL FLOW 8 INCH GLOBE VALVES	MECH		52102		1	*	SP521-002*03 *	
			AXD/02-574		BORG WARNER		2		A	
			LOCAL-LM		81320		3		AH	39 39 NA
			AB-2 HARSH		A3 J	N/A	4		YES	
							5			S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SFI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0041A	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52103			1	* SP521-003*12 *
1	LPCI PEN #P411 INBRD CHK (DW)	C I/01-599			ROCKWELL			2	A
	12 INCH CHECK VALVES	LOCAL-LM			4094(WCC)JQTY			3	AI NA NA NA
		DW-1 HARSH	H2	A1 J	N/A	N/A		4	YES
								5	LATER S H 3
*1E12 F 0041B	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52103			1	* SP521-003*12 *
1	LPCI INBOARD CHK (DW)	C I/12-624			ROCKWELL			2	A
	12 INCH CHECK VALVES	LOCAL-LM			4094(WCC)JQTY			3	AI NA NA NA
		DW-1 HARSH	H2	A1 J	N/A	N/A		4	YES
								5	LATER S H 3
*1E12 F 0041C	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52103			1	* SP521-003*12 *
1	LPCI INBRD ISO (DW)	C I/07-624			ROCKWELL			2	A
	12 INCH CHECK VALVES	LOCAL-LM			4094(WCC)JQTY			3	AI NA NA NA
		DW-1 HARSH	H2	A1 J	N/A	N/A		4	YES
								5	LATER S H 3
*1E12 F 0042A	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52102			1	* SP521-002*69 *
1	LPCI A PEN#P113 INBRD ISO PNEUTST	C O/01-624			BORG WARNER			2	A
	12 INCH GATE VALVES	LOCAL-LM			81220			3	AH 75 75 NA
		CT-3 HARSH	H2	A1 J	N/A	25.9 SEC		4	YES
								5	LATER S H 3
*1E12 F 0042B	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52102			1	* SP521-002*28 *
1	LPCI B PEN#P412 INBRD ISO PNEUTST	C O/17-620			BORG WARNER			2	A
	12 INCH GATE VALVES	LOCAL-LM			81220-1			3	AH 75 75 NA
		CT-3 HARSH	H2	A1 J	N/A	25.9 SEC		4	YES
								5	LATER S H 3
*1E12 F 0042C	RESIDUAL HEAT REMOVAL SYSTEM	MECH			52102			1	* SP521-002*71 *
1	LPCI C PEN#P411 OTBRD ISO PNEUTST	AXC/O3-620			BORG WARNER			2	A
	12 INCH GATE VALVES	LOCAL-LM			81220-2			3	AH 75 75 NA
		AB-4 HARSH		A4 J	N/A	25.9 SEC		4	YES
								5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION		MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0047B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*42 *
1	RHR TO HX ISO MAX OP/CLS TIME 90 SEC	AXB/04-620		BORG WARNER		2	A
	18 INCH GATE VALVES	LOCAL-LM		81150		3	AH 65 65 NA
		AB-4 HARSH		A1 J	N/A 87.2 SEC	4	YES
						5	S 3
*1E12 F 0048A	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*55 *
1	RHR BALANCING VLV OP/CL 90SEC	AXB/07-599		BORG WARNER		2	A
	18 INCH GLOBE VALVES	LOCAL-LM		81340		3	AH 45 45 NA
		AB-4 HARSH		A1 J	N/A 79.0 SEC	4	YES
						5	S 3
*1E12 F 0048B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*55 *
1	RHR BALANCING VLV OP/CL 90SEC	AXB/03-602		BORG WARNER		2	A
	18 INCH GLOBE VALVES	LOCAL-LM		81340		3	AH 45 45 NA
		AB-4 HARSH		A1 J	N/A 79.0 SEC	4	YES
						5	S 3
*1E12 F 0049	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*05 *
1	RHR "A" TO LRW SYS ISO	AXB/05-574		BORG WARNER		2	A
	8 INCH GATE VALVES	LOCAL-LM		81130		3	AH 60 60 NA
		AB-4 HARSH		A3 J	N/A 49.0 SEC	4	YES
						5	S 3
*1E12 F 0050A	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*62 *
	RHR TO FW	AXB/06-620		BORG WARNER		2	A
	12 INCH CHECK VALVE	LOCAL-LM		81500		3	AH NA NA NA
		AB-7 HARSH		A1 J	N/A N/A	4	YES
						5	S H 3
*1E12 F 0050B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102		1	* SP521-002*62 *
	RHR TO FW	AXC/04-620		BORG WARNER		2	A
	12 INCH CHECK VALVE	LOCAL-LM		81500		3	AH NA NA NA
		AB-7 HARSH		A1 J	N/A N/A	4	YES
						5	S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-PT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0051A	RESIDUAL HEAT REMOVAL SYSTEM MAIN STM TO RHR HX PRESS CONTR CONTROL VALVE THROTTLING SERVICE	MECH AXB/06-620 LOCAL-LM AB-4 HARSH	60701 FISHER CONTROLS 6ED667(87) A1 A N/A 40.0 SEC	1 SP607-001-01 * 2 A 3 E 40Y 04Y 4 YES 5 YES	SP607-001-06 * A AH 33 43 YES S 3
*1E12 F 0051B	RESIDUAL HEAT REMOVAL SYSTEM MAIN STM TO RHR HX PRESS CONTR CONTROL VALVE THROTTLING SERVICE	MECH AXB/04-620 LOCAL-LM AB-4 HARSH	60701 FISHER CONTROLS 6ED667(87) A1 A N/A 40.0 SEC	1 SP607-001-01 * 2 A 3 E 40Y 04Y 4 YES 5 YES	SP607-001-06 * A AH 33 43 YES S 3
*1E12 F 0052A 1	RESIDUAL HEAT REMOVAL SYSTEM MAIN STM TO RHR HX ISO 10 INCH GLOBE VALVES	MECH AXC/07-620 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81380 A3 J N/A 70.0 SEC	1 2 3 4 5	* SP521-002*04 * A AH 59 59 NA YES S 3
*1E12 F 0052B 1	RESIDUAL HEAT REMOVAL SYSTEM MAIN STM TO RHR HX ISO 10 INCH GLOBE VALVES	MECH AXC/04-620 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81380 A3 J N/A 70.0 SEC	1 2 3 4 5	* SP521-002*04 * A AH 59 59 NA YES S 3
*1E12 F 0053A 1	RESIDUAL HEAT REMOVAL SYSTEM RHR TO FW ISO MAX P330PSI MAX CL 34S 12 INCH GLOBE VALVES	MECH AXC/06-620 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81390 A1 J N/A 34.0 SEC	1 2 3 4 5	* SP521-002*21 * A AH 45 45 NA YES S H 3
*1E12 F 0053B 1	RESIDUAL HEAT REMOVAL SYSTEM RHR TO FW ISO MAX P330PSI MAX CL 34C 12 INCH GLOBE VALVES	MECH AXC/04-620 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81390-1 A1 J N/A 34.0 SEC	1 2 3 4 5	* SP521-002*20 * A AH 45 45 NA YES S H 3

SELECT : 04EMECH

QUALIFICATIONS REVIEW LIST

SELECT :

AS OF 00651 06/28/84

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2	SUM-ENV/ENV QFD SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4	M-LF-MI/OPD-SEAL M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5	APT DEMO-H2 DEMO RRS-DP-LDS S-O-R
*1E12 F 0063C	RESIDUAL HEAT REMOVAL SYSTEM FLUSH WTR FOR LPCIC 8 INCH CHECK VALVE	MECH AXC/03-620 LOCAL-LM AB-4 HARSH	52101 TRW MISSION K30SPF-V76 A1 J N/A	1 2 3 4 5	* SP521-001 00 * A AH NA NA NA YES S 3
*1E12 F 0064A 1	RESIDUAL HEAT REMOVAL SYSTEM RHR MIN FLW TO SUPP POOL ISO 6 INCH GATE VALVES	MECH AXC/07-574 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81120 A1 J N/A 8.00 SEC	1 2 3 4 5	* SP521-002*22 * A AH 33 33 NA YES S H 3
*1E12 F 0064B 1	RESIDUAL HEAT REMOVAL SYSTM RHR MIN FLW TO SUPP POOL ISO 6 INCH GATE VALVES	MECH AXC/03-574 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81120 A1 J N/A 8.00 SEC	1 2 3 4 5	* SP521-002*22 * A AH 33 33 NA YES S H 3
*1E12 F 0064C 1	RESIDUAL HEAT REMOVAL SYSTEM RHR MIN FLW TO SUPP POOL ISO 6 INCH GATE VALVES	MECH AXC/05-574 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81120 A1 J N/A 8.00 SEC	1 2 3 4 5	* SP521-002*22 * A AH 33 33 NA YES S H 3
*1E12 F 0065A	RESIDUAL HEAT REMOVAL SYSTEM RHR HX LEVEL CONTROL CONTROL VALVE THROTTLING SERVICE	MECH AXB/06-574 LOCAL-LM AB-4 HARSH	60701 FISHER CONTROLS 2ES667(40) A1 A N/A 15.0 SEC	1 2 3 4 5	SP607-001-01 * SP607-001-05 * A AH 39 YES S 3
*1E12 F 0065B	RESIDUAL HEAT REMOVAL SYSTEM RHR HX LEVEL CONTROL CONTROL VALVE THROTTLING SERVICE	MECH AXC/04-574 LOCAL-LM AB-4 HARSH	60701 FISHER CONTROLS 2ES667(40) A1 A N/A 15.0 SEC	1 2 3 4 5	SP607-001-01 * SP607-001-05 * A AH 39 YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/DPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0073A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53106	1	* *
1	RHR HX SHELL SIDE VENTS TO POOL	AXB/06-620	ROCKWELL	2	B
	1 INCH GLOBE VALVES	LOCAL-LM	15014MPT2	3	
		AB-5 HARSH	A3 H N/A	N/A 4	
				5	
*1E12 F 0073B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53106	1	* *
1	RHR HX SHELL SIDE VENTS TO POOL	AXB/04-620	ROCKWELL	2	B
	1 INCH GLOBE VALVES	LOCAL-LM	15014MPT2	3	
		AB-4 HARSH	A3 H N/A	N/A 4	
				5	
*1E12 F 0074A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53106	1	* *
1	RHR HX SHELL SIDE VENTS TO POOL	AXB/06-620	ROCKWELL	2	B
	1 INCH GLOBE VALVES	LOCAL-LM	15014MPT2	3	
		AB-4 HARSH	A3 J N/A	N/A 4	
				5	
*1E12 F 0074B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53106	1	* *
1	RHR HX SHELL SIDE VENTS TO POOL	AXB/04-620	ROCKWELL	2	B
	1 INCH GLOBE VALVES	LOCAL-LM	15014MPT2	3	
		AB-4 HARSH	A3 J N/A	N/A 4	
				5	
*1E12 F 0084A	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53101	1	* SP531-001*01 *
	LPCS WTR LEG PMP TO RHR "A"	AXC/05-574	DRESSER	2	A
	1-1/2 INCH CHECK	LOCAL-LM	5580W	3	AH NA NA NA
	VALVE	AB-4 HARSH	A1 J N/A	N/A 4	YES
				5	S 3
*1E12 F 0084B	RESIDUAL HEAT REMOVAL SYSTEM	MECH	53101	1	* SP531-001*01 *
	RHR WATR LEG PUMP TO RHR "B"	AXB/04-574	DRESSER	2	A
	1-1/2 INCH CHECK	LOCAL-LM	5580W	3	AH NA NA NA
	VALVE	AB-4 HARSH	A1 J N/A	N/A 4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0087B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102			1	* SP521-002*13 *
1	BYPASS FOR FO51B MAX P#500PSI	AXB/O4-620		BORG WARNER			2	A
	6 INCH GLOBE VALVES	LOCAL-LM		81370-1			3	AH 51 51 NA
		AB-4 HARSH		A3 J	N/A	48.0 SEC	4	YES
							5	S 3
*1E12 F 0103A	RESIDUAL HEAT REMOVAL SYSTEM	MECH		53101			1	* SP531-001*01 *
	RCIC TURB EXH VAC.RLF TO RHR R	AXC/O6-620		DRESSER			2	A
	1-1/2 INCH CHECK	LOCAL-LM		5580W			3	AH NA NA NA
	VALVE	AB-4 HARSH		A3 J	N/A	N/A	4	YES
							5	S H 3
*1E12 F 0103B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		53101			1	* SP531-001*01 *
	RCIC TURB EXH VAC.RLF TO RHR R	AXC/O4-620		DRESSER			2	A
	1-1/2 INCH CHECK	LOCAL-LM		5580W			3	AH NA NA NA
	VALVE	AB-4 HARSH		A3 J	N/A	N/A	4	YES
							5	S H 3
*1E12 F 0104A	RESIDUAL HEAT REMOVAL SYSTEM	MECH		53101			1	* SP531-001*01 *
	RCIC TURB EXH VAC.RLF TO RHR R	AXC/O6-620		DRESSER			2	A
	1-1/2 INCH CHECK	LOCAL-LM		5580W			3	AH NA NA NA
	VALVE	AB-4 HARSH		A3 J	N/A	N/A	4	YES
							5	S 3
*1E12 F 0104B	RESIDUAL HEAT REMOVAL SYSTEM	MECH		53101			1	* SP531-001*01 *
	RCIC TURB EXH VAC.RLF TO RHR R	AXC/O4-620		DRESSER			2	A
	1-1/2 INCH CHECK	LOCAL-LM		5580W			3	AH NA NA NA
	VALVE	AB-4 HARSH		A3 J	N/A	N/A	4	YES
							5	S 3
*1E12 F 0105	RESIDUAL HEAT REMOVAL SYSTEM	MECH		52102			1	* SP521-002*29 *
1	SUPPR POOL SUCT ISO LOOP C MX P#70PS	AXC/O4-574		BORG WARNER			2	A
	24 INCH GATE VALVES	LOCAL-LM		81170			3	AH 77 77 NA
		AB-4 HARSH		A1 J	N/A	117. SEC	4	YES
							5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/DPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E12 F 0562B	RESIDUAL HEAT REMOVAL SYSTEM	MECH			53101		1	* SP531-001*01 *
		AXB/03-568			DRESSER		2	A
Y	2 INCH CHECK VALVE	LOCAL-LM			7440W		3	AH NA NA NA
		AB-4 HARSH			A3 J	N/A	4	YES
							5	S 3
*1E21 C 0001	LOW PRESSURE CORE SPRAY SYSTEM	MECH	D1		301	21A3504BC	1	* SP301-S01-00 *
1	LPCS PUMP	AXB/08-568			BYRON JACKSON		2	B
	PUMP	LOCAL-CF			30DX-20CKXH4		3	CKL 18 17 60
		AB-2 HARSH			A1 I	N/A	4	YES
							5	A1 2 S
*1E21 C 0002	LOW PRESSURE CORE SPRAY SYSTEM	MECH			506		1	* SP506-000 00 *
1	WATER LEG PUMP	AXD/07-574			BINGHAM-WILLAMETTE		2	A
	VERTICALLY SPLIT	LOCAL-CF			2X2X7-1/2 CAP		3	AG NA NA NA
	HORIZONTAL PUMP	AB-2 HARSH			A4 J	N/A	4	YES
							5	A1 3 S
*1E21 F 0001	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52102		1	* SP521-002*29 *
1	PUMP SUCT FROM SUPP POOL ISO	AXD/08-574			BORG WARNER		2	A
	24 INCH GATE VALVES	LOCAL-LM			81100		3	AH 77 77 NA
		AB-2 HARSH			A1 J	N/A	4	YES
						117. SEC	5	S H 3
*1E21 F 0003	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52101		1	* SP521-001 00 *
	PUMP DISCH CHECK	AXC/08-574			TRW MISSION		2	A
	14 INCH CHECK VALVE	LOCAL-LM			K30SPF-V74		3	AH NA NA NA
		AB-4 HARSH			A1 J	N/A	4	YES
							5	S 3
*1E21 F 0005	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52102		1	* SP521-002*71 *
1	LPCS TO RPV PEN P112 OUTBOARD	AXC/07-620			BORG WARNER		2	A
	12 INCH GATE VALVES	LOCAL-LM			81220-2		3	AH 75 75 NA
		AB-4 HARSH			A1 J	N/A	4	YES
						25.9 SEC	5	S H 3

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E21 F 0006	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52103				* SP521-C03*12 *
1	LPCS TO RPV PEN P112 INBOARD	C I/06-624			ROCKWELL				A
	12 INCH CHECK VALVES	LOCAL-LM			4094(WCC)JQTY				AI NA NA NA
		DW-1 HARSH	H2	A1 J	N/A	N/A	4		YES
							5	LATER	S H 3
*1E21 F 0011	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52102				* SP521-002*44 *
1	LPCS PMP MIN FLW TO SUPP POOL	AXC/07-599			BORG WARNER				A
	4 INCH GATE VALVES	LOCAL-LM			81110				AH 54 54 NA
		AB-4 HARSH		A1 J	N/A	20.0 SEC	4		YES
							5		S H 3
*1E21 F 0012	LOW PRESSURE CORE SPRAY SYSTEM	MECH			52102				* SP521-002*19 *
1	LPCS TEST TO SUPP POOL	AXC/07-599			BORG WARNER				A
	12 INCH GLOBE VALVES	LOCAL-LM			82350				AH 55 55 NA
		AB-4 HARSH		A3 J	N/A	62.0 SEC	4		YES
							5		S H 3
*1E21 F 0018	LOW PRESSURE CORE SPRAY SYSTEM	MECH			523				* SP523-000*02 *
	LPCS PMP DISCH LINE RLF	AXC/07-620			TARGET ROCK CORP.				A
	1-1/2 INCH X 2 INCH	LOCAL-LM			76H-007				CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH		A2 J	N/A	N/A	4		YES
							5		S 3
*1E21 F 0031	LOW PRESSURE CORE SPRAY SYSTEM	MECH			523				* SP523-000*02 *
	LPCS PMP SUCT LINE RLF	AXC/07-574			TARGET ROCK CORP.				A
	1 INCH X 2 INCH	LOCAL-LM			76H-003				CFH NA NA NA
	RELIEF VALVE	AB-2 HARSH		A2 J	N/A	N/A	4		YES
							5		S 3
*1E21 F 0033	LOW PRESSURE CORE SPRAY SYSTEM	MECH			53101				* SP531-001*02 *
	WTR LEG PMP DISCH CHECK	AXC/07-574			DRESSER				A
	1-1/2 INCH CHECK	LOCAL-LM			7440W				AH NA NA NA
	VALVE	AB-2 HARSH		A1 J	N/A	N/A	4		YES
							5		S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E22 F 0011	HIGH PRESSURE CORE SPRAY SYSTEM TEST BYPASS TO CONDENSATE STORAGE 10 INCH GLOBE VALVE	MECH	NA	D3	301	105D5007L	1	* SP301-000*02 *
		AXD/02-574			ANCHOR/DARLING		2	A
		LOCAL-LM			NOT ASSIGNED		3	AH 34 34 NA
		AB-2 HARSH			A1 C	N/A 50.0 SEC	4	YES
							5	S 3
*1E22 F 0012	HIGH PRESSURE CORE SPRAY SYSTEM MIN FLOW BYPASS TO SUPPRESSION POOL 4 INCH GATE VALVE	MECH	NA	D3	301	105D5007L	1	* SP301-000*03 *
		AXD/03-620			ANCHOR/DARLING		2	A
		LOCAL-LM			NOT ASSIGNED		3	AH NA NA NA
		AB-8 HARSH			A1 D	N/A 5.00 SEC	4	YES
							5	S H 3
*1E22 F 0014	HIGH PRESSURE CORE SPRAY SYSTEM RLF FOR WTR LEG PMP SUCT LINE 1 INCH X 2 INCH RELIEF VALVE	MECH			523		1	* SP523-000*02 *
		AXC/02-574			TARGET ROCK CORP.		2	A
		LOCAL-LM			76H-003		3	CFH NA NA NA
		AB-2 HARSH			A2 J	N/A N/A	4	YES
							5	S 3
*1E22 F 0015	HIGH PRESSURE CORE SPRAY SYSTEM SUPPRESSION POOL SUCTION VALVE 24 INCH GATE VALVE	MECH		D3	301	105D5007L	1	* SP301-000*00 *
		AXD/02-574			ANCHOR/DARLING		2	A
		LOCAL-LM			NOT ASSIGNED		3	AH 34 34 NA
		AB-2 HARSH			A1 D	N/A 24.0 SEC	4	YES
							5	S H 3
*1E22 F 0016	HIGH PRESSURE CORE SPRAY SYSTEM HPCS SUCT FROM SUPP POOL 12 INCH CHECK VALVE	MECH			52101		1	* SP521-001 00 *
		AXD/03-574			TRW MISSION		2	A
		LOCAL-LM			K15SEF-V75		3	AH NA NA NA
		AB-2 HARSH			A1 J	N/A N/A	4	YES
							5	S 3
*1E22 F 0023	HIGH PRESSURE CORE SPRAY SYSTEM HPCS TEST TO SUPP POOL 12 INCH GLOBE VALVE	MECH	D	D3	301	105D5007L	1	* SP301-000*01 *
		AXE/02-620			ANCHOR/DARLING		2	A
		LOCAL-LM			NOT ASSIGNED		3	AH 69 69 NA
		AB-8 HARSH			A1 D	N/A 60.0 SEC	4	YES
							5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ELEV MODEL ZONE M/H H2	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1E22 F 0024	HIGH PRESSURE CORE SPRAY SYSTEM HPCS PMP DISCH CHECK 16 INCH CHECK VALVE	MECH AXC/02-574 LOCAL-LM AB-2 HARSH	52102 BORG WARNER 81510 A1 J N/A N/A	1 2 3 4 5	* SP521-002*61 * A AH NA NA NA YES S 3
*1E22 F 0035	HIGH PRESSURE CORE SPRAY SYSTEM HPCS DISCH LINE RLF TO SUPP PD 1-1/2 INCH X 2 INCH RELIEF VALVE	MECH AXD/02-620 LOCAL-LM AB-8 HARSH	523 TARGET ROCK CORP. 76H-012 A2 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1E22 F 0039	HIGH PRESSURE CORE SPRAY SYSTEM THERMAL EXPANSION CHECK 1 INCH CHECK VALVE	MECH AXD/02-574 LOCAL-LM AB-2 HARSH	53101 DRESSER 7440W A3 J N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S 3
*1E32 F 0001A 1	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL ISOLATION VLV 2-1/2 INCH GATE VALVES	MECH AXC/06-624 LOCAL-LM AB-7 HARSH	52103 ROCKWELL 12511BDDFMPQTY A1 J N/A 15.0 SEC	1 2 3 4 5	* SP521-003*12 * A AH 41 41 NA YES S 3
*1E32 F 0001E 1	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL ISOLATION VLV 2-1/2 INCH GATE VALVES	MECH AXC/04-624 LOCAL-LM AB-7 HARSH	52103 ROCKWELL 12511BDDFMPQTY A1 J N/A 15.0 SEC	1 2 3 4 5	* SP521-003*12 * A AH 41 41 NA YES S 3
*1E32 F 0001J 1	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL ISOLATION VLV 2-1/2 INCH GATE VALVES	MECH AXC/06-624 LOCAL-LM AB-7 HARSH	52103 ROCKWELL 12511BDDFMPQTY A1 J N/A 15.0 SEC	1 2 3 4 5	* SP521-003*12 * A AH 41 41 NA YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E32 F 0001N	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	STEAM TUNNEL ISOLATION VLV	AXC/05-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0002A	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	STEAM TUNNEL ISOLATION VLV	AXC/06-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0002E	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	STEAM TUNNEL ISOLATION VLV	AXC/04-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0002J	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	STEAM TUNNEL ISOLATION VLV	AXC/06-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0002N	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	STEAM TUNNEL ISOLATION VLV	AXC/05-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0003A	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	ANNULUS ISOLATION VLV	AXC/04-620	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-4 HARSH	A1 C N/A 15.0 SEC	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E32 F 0009	MSIV LEAKAGE CONTROL SYSTEM	MECH	52103	1	* SP521-003*12 *
1	ANNULUS ISO VLV	AXA/04-624	ROCKWELL	2	A
	2-1/2 INCH GATE	LOCAL-LM	12511BDDFMPQTY	3	AI 41 41 NA
	VALVES	AB-7 HARSH	A1 J N/A 15.0 SEC	4	YES
				5	S 3
*1E32 F 0010	MSIV LEAKAGE CONTROL SYSTEM	MECH	53101	1	* SP531-001*02 *
	DRAIN LINE CHK VALVE LO PRESS.	AXC/06-620	DRESSER	2	A
	3/4 INCH CHECK VALVE	LOCAL-LM	7440W	3	AH NA NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1E32 F 0011	MSIV LEAKAGE CONTROL SYSTEM	MECH	53101	1	* SP531-001*02 *
	DRAIN LINE CHK VLV	AXC/03-624	DRESSER	2	A
	3/4 INCH CHECK VALVE	LOCAL-LM	7440W	3	AH NA NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1E51 C 0001	REACTOR CORE ISOLATION COOLING	MECH	301 21A9526	1	SP301-S08-00 * SP301-S08-00 *
	RCIC PUMP	AXB/06-574	BINGHAM PUMP CO	2 B	B
	PUMP	LOCAL-CF	6X6X101/2 CP	3 C	AG 35 35 28
		AB-3 HARSH	A1 E N/A N/A	4	YES
				5	A1 2 S
*1E51 C 0003	REACTOR CORE ISOLATION COOLING	MECH	506	1	* SP506-000 00 *
	WATER LEG PUMP	AXB/06-574	BINGHAM-WILLAMETTE	2	A
	VERTICALLY SPLIT	LOCAL-CF	2X2X7-1/2 CAP	3	AG NA NA NA
	HORIZONTAL PUMP	AB-4 HARSH	A4 J N/A N/A	4	YES
				5	A1 3 S
*1E51 F 0004	REACTOR CORE ISOLATION COOLING	MECH	60701	1	SP607-001-01 * SP607-001-05 *
	TURB DRN POT TO CRW ISO	AXB/05-574	FISHER CONTROLS	2 A	A
	CONTROL VALVE	LOCAL-LM	1E5667(40)	3 E 40Y 04Y	AH 36
	ON-OFF SERVICE	AB-3 HARSH	A1 A N/A 15.0 SEC	4 YES	YES
				5 YES	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SJ-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DF-LDS S-O-R
*1E51 F 0005	REACTOR CORE ISOLATION COOLING	MECH	60701	1 SP607-001-01 *	SP607-001-05 *
	TURB DRN POT TO CRW ISO	AXB/05-574	FISHER CONTROLS	2 A	A
	CONTROL VALVE	LOCAL-LM	1ES667(40)	3 E 40Y 04Y	AH 36
	ON-OFF SERVICE	AB-3 HARSH	A1 A N/A 15.0 SEC	4 YES	YES
				5 YES	S 3
*1E51 F 0010	REACTOR CORE ISOLATION COOL. SYSTEM	MECH	52102	1	* SP521-002*32 *
1	CST TO RCIC PMP ISO	AXB/05-574	BORG WARNER	2	A
	6 INCH GATE VALVES	LOCAL-LM	83470-1	3	AH 58 58 NA
		AB-3 HARSH	A3 I N/A 30.0 SEC	4 YES	YES
				5	S 3
*1E51 F 0011	REACTOR CORE ISOLATION COOLING	MECH	52101	1	* SP521-001 00 *
	CST TO RCIC PMP	AXB/05-574	TRW MISSION	2	A
	6 INCH CHECK VALVE	LOCAL-LM	K15SEF-V75	3	AH NA NA NA
		AB-3 HARSH	A3 J N/A N/A	4 YES	YES
				5	S 3
*1E51 F 0013	REACTOR CORE ISOLATION COOL. SYSTEM	MECH	52102	1	* SP521-002 00 *
1	P123 OUTBRD ISO MAX AP 1400PSI	AXC/06-620	BORG WARNER	2	A
	6 INCH GATE VALVES	LOCAL-LM	83490	3	AH 54 54 NA
		AB-4 HARSH	A3 E N/A 15.0 SEC	4 YES	YES
				5	S H 3
*1E51 F 0015	REACTOR CORE ISOLATION COOLING SYS	MECH	60704	1	* SP607-004*00 *
	OUTLET PRESS REG TO TURB LUBE COOLER	AXC/06-574	TARGET ROCK CORP	2	A
	2 INCH PRESSURE	LOCAL-LM	80M-001	3	CDG 99 99 99
	REGULATOR	AB-3 HARSH	A1 J N/A N/A	4 YES	YES
				5	A2 2 S 3
*1E51 F 0017	REACTOR CORE ISOLATION COOLING	MECH	523	1	* SP523-000*02 *
	RCIC PMP SUCT RLF TO CRW	AXB/05-574	TARGET ROCK CORP.	2	A
	1 INCH X 2 INCH	LOCAL-LM	76H-003	3	CFH NA NA NA
	RELIEF VALVE	AB-3 HARSH	A2 J N/A N/A	4 YES	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWC	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
*1E51 F 0018	REACTOR CORE ISOLATION COOLING RCIC TO LUBE OIL CTR. REL. 1 INCH X 2 INCH RELIEF VALVE	MECH			523			1	* SP523-000*02 *
		AXC/06-574			TARGET ROCK CORP.			2	A
		LOCAL-LM			76H-004			3	CFH NA NA NA
		AB-3 HARSH			A3 J	N/A	N/A	4	YES
								5	S 3
*1E51 F 0019	REACTOR CORE ISOLATION COOL. SYSTEM RCIC MIN FLOW TO SUPP POOL 2 INCH GLOBE VALVES	MECH			53106			1	* B *
1		AXC/06-599			ROCKWELL			2	
		LOCAL-LM			150Y4MPY2			3	
		AB-4 HARSH			A3 E	N/A	5.00 SEC	4	
								5	
*1E51 F 0021	REACTOR CORE ISOLATION COOLING RCIC PMP MIN FLOW TO SUPP POOL 2 INCH CHECK VALVE	MECH			53101			1	* SP531-001*01 *
		AXC/06-599			DRESSER			2	A
		LOCAL-LM			744PW			3	AH NA NA NA
		AB-4 HARSH			A3 J	N/A	N/A	4	YES
								5	S H 3
*1E51 F 0022	REACTOR CORE ISOLATION COOL. SYSTEM RCIC TO CST ISO DC MOTOR OPER 4 INCH GLOBE VALVES	MECH			52102			1	* SP521-002*56 *
1		AXC/05-574			BORG WARNER			2	A
		LOCAL-LM			83480			3	AH 44 44 NA
		AB-3 HARSH			A3 I	N/A	15.0 SEC	4	YES
								5	S 3
*1E51 F 0025	REACTOR CORE ISOLATION COOLING MS DRN POT TO COND ISO CONTROL VALVE ON-OFF SERVICE	MECH			60701			1	SP607-001-01 * SP607-001-03 *
		AXC/05-574			FISHER CONTROLS			2	A
		LOCAL-LM			1DBQNS-667NS(45)			3	E 40Y 04Y AH 50
		AB-3 HARSH			A1 A	N/A	10.0 SEC	4	YES
								5	YES S 3
*1E51 F 0026	REACTOR CORE ISOLATION COOLING MS DRN POT TO COND ISO CONTROL VALVE ON-OFF SERVICE	MECH			60701			1	SP607-001-01 * SP607-001-03 *
		AXC/05-574			FISHER CONTROLS			2	A
		LOCAL-LM			1DBQNS-667NS(45)			3	E 40Y 04Y AH 50
		AB-3 HARSH			A1 A	N/A	10.0 SEC	4	YES
								5	YES S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT				5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E51 F 0054	REACTOR CORE ISOLATION COOLING MS DRN POT LEVEL CONT. CONTROL VALVE ON-OFF SERVICE	MECH AXC/05-574 LOCAL-LM AB-3 HARSH			60701 FISHER CONTROLS 1DBQNS-667NS(45) A1 A			1 SP607-001-01 * 2 A 3 E 40Y 04Y 4 YES 5 YES	SP607-001-03 * A AH 50 YES S 3
*1E51 F 0059	REACTOR CORE ISOLATION COOL. SYSTEM RCIC TO CST ISO 4 INCH GATE VALVES	MECH AXC/05-574 LOCAL-LM AB-4 HARSH			52102 BORG WARNER 81190 A3 I			1 2 3 4 N/A 15.0 SEC 5	* SP521-002*52 * A AH 47 47 NA YES S H 3
*1E51 F 0061	REACTOR CORE ISOLATION COOLING WTR LEG PMP DISCH TO RCIC PMP 1-1/2 INCH CHECK VALVE	MECH AXB/06-574 LOCAL-LM AB-3 HARSH			53101 DRESSER 5580W A3 J			1 2 3 4 N/A 5	* SP531-001*01 * A AH NA NA NA YES S 3
*1E51 F 0062	REACTOR CORE ISOLATION COOLING WTR LEG PMP DISCH TO RCIC PMP 1-1/2 INCH CHECK VALVE	MECH AXB/06-574 LOCAL-LM AB-3 HARSH			53101 DRESSER 7150W A3 J			1 2 3 4 N/A 5	* SP531-001*02 * A AH NA NA NA YES S 3
*1E51 F 0063	REACTOR CORE ISOLATION COOL. SYSTEM P422 INBRD ISO. PNEU TEST MAX 1145PS 10 INCH GATE VALVES	MECH C I/ -599 LOCAL-LM DW-1 HARSH		H2	52102 BORG WARNER 81210-1 A1 E			1 2 3 4 N/A 19.5 SEC 5	* SP521-002*27 * A AH 69 69 NA YES LATER S H 3
*1E51 F 0064	REACTOR CORE ISOLATION COOL. SYSTEM P422 OUTBRD ISO POSSW PNEU TST 10 INCH GATE VALVES	MECH AXC/05-520 LOCAL-LM AB-7 HARSH			52102 BORG WARNER 81210 A1 E			1 2 3 4 N/A 10.0 SEC 5	* SP521-002*27 * A AA 69 69 NA YES S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1E51 F 0065	REACTOR CORE ISOLATION COOLING OUTBD ISO P123, TESTABLE, 6 INCH CHECK VALVE	MECH SMC/06-620 LOCAL-LM AB-7 HARSH	52103 ROCKWELL 1570JQTY A1 J N/A N/A	1 2 3 4 5	* SP521-003*12 * A AH NA NA NA YES S H 3
*1E51 F 0066 1	REACTOR CORE ISOLATION COOL. SYSTEM INBRD ISO P123 PNEU TEST 6 INCH CHECK VALVES	MECH C I/01-665 LOCAL-LM DW-1 HARSH H2	52103 ROCKWELL FIG 4094(WCC) JQTY A1 D N/A N/A	1 2 3 4 5	* SP521-003*12 * A AI NA NA NA YES LATER S H 3
*1E51 F 0068 1	REACTOR CORE ISOLATION COOL. SYSTEM RCIC TURB EXH TO SUPP POOL ISO 12 INCH GATE VALVES	MECH AXC/06-599 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81090 A1 E N/A 66.0 SEC	1 2 3 4 5	* SP521-002*37 * A AH 46 46 NA YES S H 3
*1E51 F 0076 1	REACTOR CORE ISOLATION COOL. SYSTEM BYPASS FOR F063 1 INCH GLOBE VALVES	MECH C I/ -599 LOCAL-LM DW-1 HARSH H2	53106 ROCKWELL 15014MPT1 A1 E N/A N/A	1 2 3 4 5	* B LATER
*1E51 F 0077 1	REACTOR CORE ISOLATION COOL. SYSTEM VACUUM RLF FOR RCIC TURB EXH 1-1/2 INCH GLOBE VALVES	MECH AXC/06-599 LOCAL-LM AB-4 HARSH	53106 ROCKWELL 15004MPT2 A3 E N/A 8.00 SEC	1 2 3 4 5	* B
*1E51 F 0078 1	REACTOR CORE ISOLATION COOL. SYSTEM VACUUM RLF FOR RCIC TURB EXH 2 INCH GLOBE VALVES	MECH AXC/06-599 LOCAL-LM AB-4 HARSH	53106 ROCKWELL 15014MPT2 A3 E N/A N/A	1 2 3 4 5	* B

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1E51 F 0079	REACTOR CORE ISOLATION COOLING VACUUM RLF FOR RCIC TURB EXH 1-1/2 INCH CHECK VALVE	MECH			53101			1	* SP531-001*01 *
		AXC/06-599			DRESSER			2	A
		LOCAL-LM			5580W			3	AH NA NA NA
		AB-4 HARSH			A3 J	N/A	N/A	4	YES
								5	S 3
*1E51 F 0081	REACTOR CORE ISOLATION COOLING VACUUM RLF FOR RCIC TURB EXH 1-1/2 INCH CHECK VALVE	MECH			53101			1	* SP531-001*01 *
		AXC/06-599			DRESSER			2	A
		LOCAL-LM			5580W			3	AH NA NA NA
		AB-4 HARSH			A3 J	N/A	N/A	4	YES
								5	S 3
*1E51 F 0090	REACTOR CORE ISOLATION COOLING THERMAL EXPANSION CHK. 1 INCH CHECK VALVE	MECH			53101			1	* SP531-001*01 *
		AXC/06-574			DRESSER			2	A
		LOCAL-LM			7440W			3	AH NA NA NA
		AB-3 HARSH			A3 J	N/A	N/A	4	YES
								5	S 3
*1E51 F 0510	REACTOR CORE ISOLATION COOLING RCIC TURB TRIP THROTTLE VALVE	MECH	D1		301	21A9526		1	SP301-S09-00 * SP301-S09-00 *
		AXB/06-574			GIMPEL MACH WORKS			2	B
		1E51 C 0002			P-2989			3	C AL
		AB-3 HARSH			A1 E	N/A	N/A	4	
								5	A1 3 S
*1G33 F 0001	REACTOR WATER CLEAN-UP SYSTEM PEN P131 INBOARD ISO LRL,PNEU 6 INCH GATE VALVES	MECH			52102			1	* SP521-002*25 *
		C I/08-599			BORG WARNER			2	A
		LOCAL-LM			81200			3	AH 60 60 NA
		DW-1 HARSH			A1 B	N/A	15.0 SEC	4	YES
								5	S H 3
*1G33 F 0004	REACTOR WATER CLEAN-UP SYSTEM PEN P 131 OUTBOARD ISO PNEU 6 INCH GATE VALVES	MECH			52102			1	* SP521-002*25 *
		AXC/05-620			BORG WARNER			2	A
		LOCAL-LM			81200-2			3	AH 60 60 NA
		AB-7 HARSH			A1 B	N/A	15.0 SEC	4	YES
								5	S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G33 F 0028	REACTOR WATER CLEAN-UP	MECH	52102	1	* SP521-002*52 *
1	ISOLATION VALVE	C 0/17-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81190-3	3	AH 47 47 NA
		CT-6 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G33 F 0034	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*52 *
1	PEN P424 OUTBOARD ISO	AXC/05-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81190-2	3	AH 47 47 NA
		AB-7 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G33 F 0039	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*16 *
1	PEN P 132 OUTBOARD ISO	AXC/06-620	BORG WARNER	2	A
	6 INCH GATE VALVES	LOCAL-LM	81200-1	3	AH 60 60 NA
		AB-7 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G33 F 0040	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*16 *
1	PEN P132 INBOARD ISO	C 0/01-620	BORG WARNER	2	A
	6 INCH GATE VALVES	LOCAL-LM	81200-1	3	AH 60 60 NA
		CT-6 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G33 F 0052A	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*63 *
	RWCU TO RHR A TO FW A	AXC/06-620	BORG WARNER	2	A
	6 INCH CHECK VALVE	LOCAL-LM	83210	3	AH NA NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S H 3
*1G33 F 0052B	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*63 *
	RWCU TO RHR B TO FW B	AXC/04-620	BORG WARNER	2	A
	6 INCH CHECK VALVE	LOCAL-LM	83210	3	AH NA NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2 EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G33 F 0053	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*52 *
1	PEN P419 INBOARD ISO	C O/17-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81190-3	3	AH 47 47 NA
		CT-6 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G33 F 0054	REACTOR WATER CLEAN-UP SYSTEM	MECH	52102	1	* SP521-002*52 *
1	PEN P419 OUTBOARD ISO	AXC/O4-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81190-3	3	AH 47 47 NA
		AB-7 HARSH	A1 B N/A 15.0 SEC	4	YES
				5	S H 3
*1G41 F 0090	FUEL POOL COOLING & CLEAN-UP SYSTEM	MECH	524	1	* SP524-000*07 *
1	8 INCH BUTTERFLY VALVES	IBG/O7-599	CONTROMATICS	2	A
		LOCAL-LM	C-W2566-CC	3	TA 24 26 24
		FB-3 HARSH	A1 J N/A 30.0 SEC	4	YES
				5	S 3
*1G41 F 0100	FUEL POOL COOLING AND CLEANUP SYSTEM	MECH	524	1	* SP524-000*07 *
1	OUTBOARD CONTAINMENT ISOLATION VALVE	IBF/O8-620	CONTROMATICS	2	A
	8 INCH BUTTERFLY VALVES	LOCAL-LM	C-W2566-CC	3	TA 24 26 24
		FB-2 MILD	A4 A N/A 30.0 SEC	4	YES
				5	S H 3
*1G41 F 0140	FUEL POOL COOLING & CLEAN-UP SYSTEM	MECH	524	1	* SP524-000*09 *
1	INBOARD CONTAINMENT ISOL. EFFL	C O/12-620	CONTROMATICS	2	A
	10 INCH BUTTERFLY VALVES	LOCAL-LM	C-W2566-CC	3	TA 45 31 45
		CT-3 HARSH	A1 A N/A 30.0 SEC	4	YES
				5	S H 3
*1G41 F 0145	FUEL POOL COOLING & CLEAN-UP SYSTEM	MECH	524	1	* SP524-000*09 *
1	OUTBOARD CONTAINMENT ISOL. VLV	IBD/O5-620	CONTROMATICS	2	A
	10 INCH BUTTERFLY VALVES	LOCAL-LM	C-W2566-CC	3	TA 45 31 45
		FB-5 MILD	A4 A 30.0 SEC	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
	SERVICE (2) EQUIPMENT (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
		SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G41 F 0522	FUEL POOL COOLING & CLEAN-UP SYSTEM	MECH	52101	1	* SP521-001 00 *
	CONTAINMENT ISOL.	C 0/07-620	TRW MISSION	2	A
	8 INCH CHECK VALVE	LOCAL-LM	K15CEF-V77	3	AH NA NA NA
		CT-3 HARSH	A1 J N/A	N/A 4	YES
				5	LATER S H 3
*1G42 F 0010	SUPPRESSION POOL DRAIN & CLEAN-UP	MECH	524	1	* SP524-000*04 *
1	SPCU. PUMP SUCT. ISOL.	AXC/02-574	CONTROMATICS	2	A
	12 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 23 30 23
	VALVES	AB-2 HARSH	A1 J N/A	30.0 SEC 4	YES
				5	S 3
*1G42 F 0020	SUPPRESSION POOL DRAIN & CLEAN-UP	MECH	524	1	* SP524-000*04 *
1	SPCU. PUMP SUCT. ISOL.	AXC/02-574	CONTROMATICS	2	A
	12 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 23 30 23
	VALVES	AB-2 HARSH	A1 J N/A	30.0 SEC 4	YES
				5	S 3
*1G42 F 0080	SUPPR POOL CLEANUP SYSTEM	MECH	524	1	* SP524-000*07 *
1	RETURN FROM SUPP POOL DEMIN	IBJ/02-599	CONTROMATICS	2	A
	8 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TA 24 26 24
	VALVES	FB-1 MILD	A4 J N/A	30.0 SEC 4	YES
				5	S 3
*1G43 F 0030A	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	524	1	* SP524-000*10 *
1	SUPPRESSION POOL MAKE-UP	C 0/ -664	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TA 46 56 46
	VALVE	CT-8 HARSH	A1 C N/A	30.0 SEC 4	YES
				5	S H 3
*1G43 F 0030B	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	524	1	* SP524-000*10 *
1	SUPPRESSION POOL MAKE-UP	C 0/17-664	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TA 46 56 46
	VALVE	CT-7 HARSH	A1 C N/A	30.0 SEC 4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G43 F 0040A	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	524	1	* SP524-000*10 *
1	SUPPRESSION POOL MAKE-UP	C 0/ -664	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TA 46 56 46
	VALVE	CT-8 HARSH	A1 C N/A 30.0 SEC	4	YES
				5	S H 3
*1G43 F 0040B	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	524	1	* SP524-000*10 *
1	SUPPRESSION POOL MAKE-UP	C 0/16-642	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-CC	3	TA 46 56 46
	VALVE	CT-7 HARSH	A1 C N/A 30.0 SEC	4	YES
				5	S H 3
*1G43 F 0508A	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	53101	1	* SP531-001*01 *
	THERMAL EXPANSION CHECK	C 0/01-664	DRESSER	2	A
	2 INCH CHECK VALVE	LOCAL-LM	5580W	3	AH NA NA NA
		CT-3 HARSH	A1 C N/A N/A	4	YES
				5	S H 3
*1G43 F 0508B	SUPPRESSION POOL MAKE-UP SYSTEM	MECH	53101	1	* SP531-001*01 *
	THERMAL EXPANSION CHECK	C 0/17-664	DRESSER	2	A
	2 INCH CHECK VALVE	LOCAL-LM	5580W	3	AH NA NA NA
		CT-3 HARSH	A1 C N/A N/A	4	YES
				5	S H 3
*1G50 F 0272	LIQUID RADWASTE SYSTEM	MECH	52102	1	* SP521-002*44 *
1	CONTAINMENT ISOL. RBTP DISCH.	C 0/00-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81110	3	AH 54 54 NA
		CT-6 HARSH	A1 A N/A 20.0 SEC	4	YES
				5	S 3
*1G50 F 0277	LIQUID RADWASTE SYSTEM	MECH	52102	1	* SP521-002*44 *
1	CONTAINMENT ISOL. RBTP DISCH.	AXC/04-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81110	3	AH 54 54 NA
		AB-7 HARSH	A1 A N/A 20.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G61 F 0030	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*43 *
1	DRYWELL ISOL.-OUTSIDE DRYWELL	C 0/00-599	BORG WARNER	2	A
	2-1/2 INCH GATE	LOCAL-LM	81050	3	AH 42 42 NA
	VALVES	CT-2 HARSH	A1 C N/A 16.5 SEC	4	YES
				5	S H 3
*1G61 F 0035	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*43 *
1	DRYWELL ISOL.-OUTSIDE DRYWELL	C 0/00-599	BORG WARNER	2	A
	2-1/2 INCH GATE	LOCAL-LM	81050	3	AH 42 42 NA
	VALVES	CT-2 HARSH	A1 C N/A 16.5 SEC	4	YES
				5	S H 3
*1G61 F 0075	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*35 *
1	CONTAINMENT ISOL.-INSIDE CONTA	C 0/00-599	BORG WARNER	2	A
	3 INCH GATE VALVES	LOCAL-LM	81060	3	AH 42 42 NA
		CT-2 HARSH	A1 C N/A 22.0 SEC	4	YES
				5	S H 3
*1G61 F 0080	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*35 *
1	CONTAINMENT ISOL. OUTSIDE CONT.	AXD/04-620	BORG WARNER	2	A
	3 INCH GATE VALVES	LOCAL-LM	81060	3	AH 42 42 NA
		AB-4 HARSH	A1 C N/A 22.0 SEC	4	YES
				5	S H 3
*1G61 F 0150	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*43 *
1	DRYWELL ISOL.-OUTSIDE DRYWELL	C 0/17-599	BORG WARNER	2	A
	2-1/2 INCH GATE	LOCAL-LM	81050-1	3	AH 42 42 NA
	VALVES	CT-2 HARSH	A1 C N/A 16.5 SEC	4	YES
				5	S H 3
*1G61 F 0155	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*43 *
1	DRYWELL ISOL.-OUTSIDE DRYWELL	C 0/17-599	BORG WARNER	2	A
	2-1/2 INCH GATE	LOCAL-LM	81050	3	AH 42 42 NA
	VALVES	CT-2 HARSH	A1 C N/A 16.5 SEC	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

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TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	- ENVIRONMENTAL -	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1G61 F 0165	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*35 *
1	CONT. ISOL.-INSIDE CONT.	C O/17-599	BORG WARNER	2	A
	3 INCH GATE VALVES	LOCAL-LM	81060	3	AH 42 42 NA
		CT-2 HARSH	A1 C N/A 22.0 SEC	4	YES
				5	S H 3
*1G61 F 0170	LIQUID RADWASTE SUMPS SYSTEM	MECH	52102	1	* SP521-002*35 *
1	CONT. ISOL.-OUTSIDE CONT.	AXD/O4-620	BORG WARNER	2	A
	3 INCH GATE VALVES	LOCAL-LM	81060	3	AH 42 42 NA
		AB-4 HARSH	A1 C N/A 22.0 SEC	4	YES
				5	S H 3
*1H51 P 0022A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-05 *	SP611-000-05 *
1	SAMPLE PUMP	AXD/O3-620	COMSIP-DELPHI INC	2 A	A
	POSITIVE DISPLACMNT	1H51 P 0022A	11706	3 T 40Y 05Y	TA 30 30 30
	PUMP	AB-1 MILD	A4 J N/A N/A	4 YES	YES
				5 YES	A3 2 S
*1H51 P 0022B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-05 *	SP611-000-05 *
1	SAMPLE PUMP	IBB/O2-654	COMSIP-DELPHI	2 A	A
	POSITIVE DISPLACMNT	1H51 P 0022B	11706	3 T 40Y 05Y	TA 30 30 30
	PUMP	FB-4 MILD	A4 J N/A N/A	4 YES	YES
				5 YES	IB5 2 S
*1M14 F 0040	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* *
1	SUPPLY AIR VALVE ACTUATOR	C O/12-689	BETTIS CORP	2	F
	PNEUMATIC CYLINDER	1M14 F 0040	T-420-SR2	3	
	VALVE OPERATOR	CT-O HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ701 3 S H
*1M14 F 0040	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* *
	CONTAINMENT PURGE SUPPLY ISO.	C O/12-689	HENRY PRATT COMPANY	2	F
	BUTTERFLY VALVE	LOCAL-LM	120ONRS	3	
		CT-O HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ701 3 S H

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M14 F 0090	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
1	EXHAUST AIR VALVE ACTUATOR	C 0/12-664	BETTIS CORP	2	F
	PNEUMATIC CYLINDER	1M14 F 0090	T-420-SR2	3	
	VALVE OPERATOR	CT-O HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ674 3 S H
*1M14 F 0090	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
	CONTAINMENT PURGE EXHAUST ISO.	C 0/12-664	HENRY PRATT COMPANY	2	F
	BUTTERFLY VALVE	LOCAL-LM	1200NRS	3	
		CT-O HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ674 3 S H
*1M14 F 0190	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
1	SUPPLY AIR VALVE ACTUATOR	C 0/12-689	BETTIS CORP	2	F
	PNEUMATIC CYLINDER	1M14 F 0190	T-420-SR2	3	
	VALVE OPERATOR	CT-1 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ693 3 S H
*1M14 F 0190	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
	CNT PURGE SUPPLY ISOL	C 0/12-689	HENRY PRATT COMPANY	2	F
	BUTTERFLY VALVE	LOCAL-LM	1200NRS	3	
		CT-1 HARSH H2	A1 A N/A 04.0 SEC	4	
				5	LATER EQ693 3 S H
*1M14 F 0195	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	64101	1	* * *
1	SUPPLY AIR VALVE ACTUATOR	C 0/12-689		2	D
	PNEUMATIC CYLINDER	1M14 F 0195		3	
	VALVE OPERATOR	CT-1 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ693 3 S H 3
*1M14 F 0195	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	64101	1	* * *
	CNT PURGE SUPPLY INSOL.	C 0/12-689		2	D
	BUTTERFLY VALVE	LOCAL-LM		3	
		CT-1 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ693 3 S H 3

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 SELECT : 04EMECH
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 SORT : 01

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M14 F 0200	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
1	EXHAUST AIR VALVE ACTUATOR	C 0/12-664	BETTIS CORP	2	F
	PNEUMATIC CYLINDER	1M14 F 0200	T-420-SR2	3	
	VALVE OPERATOR	CT-7 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ674 3 S H
*1M14 F 0200	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	641	1	* * *
	CNT VESSEL PURGE EXHAUST ISOL.	C 0/12-664	HENRY PRATT COMPANY	2	F
	BUTTERFLY VALVE	LOCAL-LM	1200NRS	3	
		CT-7 HARSH H2	A1 A N/A 04.0 SEC	4	
				5	LATER EQ674 3 S H
*1M14 F 0205	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	64101	1	* * *
1	EXHAUST AIR VALVE ACTUATOR	C 0/12-664		2	D
	PNEUMATIC CYLINDER	1M14 F 0205		3	
	VALVE OPERATOR	CT-7 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ674 3 S H 3
*1M14 F 0205	CONTAINMENT VESSEL AND DRYWELL PURGE	MECH	64101	1	* * *
	CNT VESSEL PURGE EXHAUST ISOL.	C 0/12-664		2	D
	BUTTERFLY VALVE	LOCAL-LM		3	
		CT-7 HARSH	A1 A N/A 04.0 SEC	4	
				5	EQ674 3 S H 3
*1M15 C 0001A	ANNULUS EXHAUST GAS SYSTEM	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBG'06-620	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	409-M	3	AH 35 35 35
		FB-7 HARSH	A1 J N/A N/A	4	YES
				5	IB3 3 S
*1M15 C 0001B	ANNULUS EXHAUST GAS SYSTEM	MECH	645	1	* SP645-000*00 *
1	CENTRIFUGAL FAN	IBG/06-620	WESTINGHOUSE CORP	2	A
	SUPPLY AIR FAN	LOCAL-CF	409-M	3	AH 35 35 35
		FB-7 HARSH	A1 J N/A N/A	4	YES
				5	IB3 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M15 F 0070A	ANNULUS EXHAUST GAS TREATMENT SYSTEM	MECH	NA	D1	O91			1	* SPO49-091-09 *
	AIR FLOW MODULATION	IBG/05-620			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 33 33 33
		FB-4 MILD			A4 J	N/A	N/A	4	YES
								5	IB8 3 S
*1M15 F 0070B	ANNULUS EXHAUST GAS TREATMENT SYSTEM	MECH	NA	D1	O91			1	* SPO49-091-09 *
	AIR FLOW MODULATION	IBG/05-620			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 33 33 33
		FB-4 MILD			A4 J	N/A	N/A	4	YES
								5	IB8 3 S
*1M15 F 0080A	ANNULUS EXHAUST GAS TREATMENT SYSTEM	MECH	NA	D1	O91			1	* SPO49-091-09 *
	AIR FLOW MODULATION	IBG/05-620			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 33 33 33
		FB-4 MILD			A4 J	N/A	N/A	4	YES
								5	IB8 3 S
*1M15 F 0080B	ANNULUS EXHAUST GAS TREATMENT SYSTEM	MECH	NA	D1	O91			1	* SPO49-091-09 *
	AIR FLOW MODULATION	IBH/04-620			PAPCO			2	A
	DAMPER	LOCAL-LM			OB-1000			3	TA 33 33 33
		FB-4 MILD			A4 J	N/A	N/A	4	YES
								5	IB8 3 S
*1M15 F 0513A	ANNULUS EXHAUST GAS TREATMENT SYSTEM TRAIN ISOLATION	MECH			O91			1	* SPO91-000*00 *
	CHECK DAMPER	IBG/07-620			TECHNO			2	A
		LOCAL-LM			N/A			3	AH NA NA NA
		FB-7 HARSH			A2 J	N/A	N/A	4	YES
								5	IB3 3 S
*1M15 F 0513B	ANNULUS EXHAUST GAS TREATMENT SYSTEM TRAIN ISOLATION	MECH			O91			1	* SPO91-000*00 *
	CHECK DAMPER	IBG/07-620			TECHNO			2	A
		LOCAL-LM			N/A			3	AH NA NA NA
		FB-7 HARSH			A2 J	N/A	N/A	4	YES
								5	IB3 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M15 F 0590A	ANNULUS EXHAUST GAS TREATMENT	MECH		091				1	* SPO91-000*00 *
	SYSTEM TRAIN ISOLATION	IBG/04-654		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-4 MILD		A4 J	N/A	N/A		4	YES
								5	IB5 3 S
*1M15 F 0590B	ANNULUS EXHAUST GAS TREATMENT	MECH		091				1	* SPO91-000*00 *
	SYSTEM TRAIN ISOLATION	IBH/02-620		TECHNO				2	A
	CHECK DAMPER	LOCAL-LM		N/A				3	AH NA NA NA
		FB-4 MILD		A4 J	N/A	N/A		4	YES
								5	IB3 3 S
*1M16 F 0010A	DRYWELL VACUUM RELIEF SYSTEM	MECH		641				1	* * *
1	DRYWELL ISOL.	C O/17-652		HENRY PRATT COMPANY				2	F
	DW VAC RLF TRAIN A	LOCAL-LM		NRS				3	
	VAC RLF BUT-FLY VALV	CT-7 HARSH	H2	A1 J	N/A	05.0 SEC		4	
								5	LATER EQ664 3 S H
*1M16 F 0010B	DRYWELL VACUUM RELIEF SYSTEM	MECH		641				1	* * *
1	DRYWELL ISOL.	C O/12-652		HENRY PRATT COMPANY				2	F
	DW VAC RLF TRAIN A	LOCAL-LM		NRS				3	
	VAC RLF BUT-FLY VALV	CT-7 HARSH	H2	A1 J	N/A	05.0 SEC		4	
								5	LATER EQ664 3 S H
*1M16 F 0020A	DRYWELL VACUUM RELIEF SYSTEM	MECH		635				1	* SP635-000 00 *
1	DRYWELL ISOL	C O/16-664		GPE CONTROLS DIV				2	A
N	10 INCH CHECK VALVE	LOCAL-LM		LD240-339				3	AH NA NA NA
		CT-7 HARSH	H2	A1 J	N/A	N/A		4	YES
								5	LATER S H 3
*1M16 F 0020B	DRYWELL VACUUM RELIEF SYSTEM	MECH		635				1	* SP635-000 00 *
1	DRYWELL ISOL	C O/12-664		GPE CONTROLS DIV.				2	A
N	10 INCH CHECK VALVE	LOCAL-LM		LD240-339				3	AH NA NA NA
		CT-8 HARSH	H2	A1 J	N/A	N/A		4	YES
								5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION		MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-OP-LDS S-O-R
*1M17 F 0010	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		635		1	* SP635-000*00 *
1	VAC. RELIEF CHECK	C 0/02-620		GPE CONTROLS DIV.		2	A
	24 INCH CHECK VALVE	LOCAL-LM		LD240-337		3	AH NA NA NA
		CT-1 HARSH	H2	A1 J N/A	N/A	4	YES
						5	LATER S H 3
*1M17 F 0015	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		641		1	* F *
1	CONTAINMENT VAC. RELIEF	C 0/02-689		HENRY PRATT COMPANY		2	
	CONTAINMENT VACUUM	LOCAL-LM		NRS		3	
	RLF BUTTERFLY VALVE	CT-O HARSH		A1 J N/A	05.0 SEC	4	
						5	EQ693 3 S H
*1M17 F 0020	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		635		1	* SP635-000*00 *
1	VAC. RELIEF CHECK	C 0/07-712		GPE CONTROLS DIV.		2	A
	24 INCH CHECK VALVE	LOCAL-LM		LD240-337		3	AH NA NA NA
		CT-1 HARSH	H2	A1 J N/A	N/A	4	YES
						5	LATER S H 3
*1M17 F 0025	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		641		1	* F *
1	CONTAINMENT VAC. RELIEF	C 0/07-689		HENRY PRATT COMPANY		2	
	CONTAINMENT VACUUM	LOCAL-LM		NRS		3	
	RLF BUTTERFLY VALVE	CT-O HARSH		A1 J N/A	05.0 SEC	4	
						5	EQ693 3 S H
*1M17 F 0030	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		635		1	* SP635-000*00 *
1	VAC. RELIEF CHECK	C 0/16-620		GPE CONTROLS DIV.		2	A
	24 INCH CHECK VALVE	LOCAL-LM		LD240-337		3	AH NA NA NA
		CT-1 HARSH	H2	A1 J N/A	N/A	4	YES
						5	LATER S H 3
*1M17 F 0035	CONTAINMENT VACUUM RELIEF SYSTEM	MECH		641		1	* F *
1	CONTAINMENT VAC. RELIEF	C 0/16-689		HENRY PRATT COMPANY		2	
	CONTAINMENT VACUUM	LOCAL-LM		NRS		3	
	RLF BUTTERFLY VALVE	CT-O HARSH		A1 J N/A	05.0 SEC	4	
						5	EQ693 3 S H

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M17 F 0040	CONTAINMENT VACUUM RELIEF SYSTEM	MECH	635	1	* SP635-000*00 *
1	VAC. RELIEF CHECK	C D/13-620	GPE CONTROLS DIV.	2	A
	24 INCH CHECK VALVE	LOCAL-LM	LD240-337	3	AH NA NA NA
		CT-1 HARSH H2	A1 J N/A N/A	4	YES
				5	LATER S H 3
*1M17 F 0045	CONTAINMENT VACUUM RELIEF SYSTEM	MECH	641	1	* * *
1	CONTAINMENT VAC. RELIEF	C D/17-689	HENRY PRATT COMPANY	2	F
	CONTAINMENT VACUUM	LOCAL-LM	NRS	3	
	RLF BUTTERFLY VALVE	CT-O HARSH	A1 J N/A 05.0 SEC	4	
				5	EQE93 3 S H
*1M32 C 0001A	EMERG SERV WTR PMP HSE VENT SYSTEM	MECH	648	1	* SP648-000*00 *
1	SUPPLY FAN	EWA/06-614	BUFFALO FORGE CO	2	A
	AXIAL FAN	LOCAL-CW	43D7	3	AH 40 16 40
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E3 3 S
*1M32 C 0001B	EMERG SERV WTR PMP HSE VENT SYSTEM	MECH	648	1	* SP648-000*00 *
1	SUPPLY FAN	EWA/05-614	BUFFALO FORGE CO	2	A
	AXIAL FAN	LOCAL-CW	43D7	3	AH 40 16 40
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E3 3 S
*1M32 F 0040A	EMERG SERV WTR PMP HSE VENT SYSTEM	MECH	049	1	* SP049-091-09 *
1	OUTSIDE AIR DAMPER	EWD/05-586	PAPCO	2	A
	DAMPER	LOCAL-LM	0B-1000	3	TA 33 33 33
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E4 3 S
*1M32 F 0040B	EMERG SERV WTR PMP HSE VENT SYSTEM	MECH A D2	049	1	* SP049-091-09 *
	OUTSIDE AIR DAMPER	EWD/02-586	PAPCO	2	A
	DAMPER	LOCAL-LM	0B-1000	3	TA 33 33 33
		ES-W MILD	A4 J N/A N/A	4	YES
				5	E4 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M32 F 0050A	EMERG SERV WTR PMP HSE VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	A	D1	049			1	* SPO49-091-09 *
		EWD/05-586			PAPCO			2	A
		LOCAL-LM			0B-1000			3	TA 33 33 33
		ES-W MILD			A4 J	N/A	N/A	4	YES
								5	E4 3 S
*1M32 F 0050B	EMERG SERV WTR PMP HSE VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH			049			1	* SPO49-091-09 *
1		EWD/03-586			PAPCO			2	A
		LOCAL-LM			0B-1000			3	TA 33 33 33
		ES-W MILD			A4 J	N/A	N/A	4	YES
								5	E4 3 S
*1M32 F 0070A	EMERG SERV WTR PMP HSE VENT SYSTEM EXHAUST AIR LOUVER LOUVER	MECH	NA	D1	049			1	* SPO49-000-09 *
		EWA/04-586			CONST SPECIALTIES			2	A
		LOCAL-CW			9880E			3	TA 30 12 15
		ES-W MILD			A4 J	N/A	N/A	4	YES
								5	E4 3 S
*1M32 F 0070B	EMERG SERV WTR PMP HSE VENT SYSTEM EXHAUST AIR LOUVER LOUVER	MECH	NA	D2	049			1	* SPO49-000-09 *
		EWA/03-586			CONST SPECIALTIES			2	A
		LOCAL-CW			9880E			3	TA 30 12 15
		ES-W MILD			A4 J	N/A	N/A	4	YES
								5	E4 3 S
*1M36 C 0001A	OFF GAS BUILDING EXHAUST SYSTEM CENTRIFUGAL FAN EXHAUST FAN	MECH			645			1	* SP645-000*00 *
1		OGA/02-635			WESTINGHOUSE CORP			2	A
		LOCAL-CF			3030			3	AH 35 35 35
		OG-B MILD			A4 J	N/A	N/A	4	YES
								5	G4 3 S
*1M36 C 0001B	OFF GAS BUILDING EXHAUST SYSTEM CENTRIFUGAL FAN EXHAUST FAN	MECH			645			1	* SP645-000*00 *
1		OGC/02-635			WESTINGHOUSE CORP			2	A
		LOCAL-CF			3030			3	AH 35 35 35
		OG-B MILD			A4 J	N/A	N/A	4	YES
								5	G4 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5	AR1 DEMO-H2 DEMO RRS-DP-LDS S-O-R
*1M36 F 0060A	OFF-GAS BUILDING EXHAUST SYSTEM	MECH		049				1 SPO49-000-12 *	SPO49-000-12 *
1	AIR ACTUATED DAMPER POSITIONER	OGA/01-635			POWERS REGULATOR CO			2 A	A
	CONTROLLER	1M36 F 0060A			311-2799			3 C 40Y 40Y	TA 12 33 33
		OG-B MILD			A4 J N/A	N/A		4 YES	YES
								5 YES	G5 3 S
*1M36 F 0060A	OFF-GAS BUILDING EXHAUST SYSTEM	MECH		049				1	* SPO49-000-12 *
	SYSTEM TRAIN ISOLATION	OGA/01-635			PAPCO			2	A
	DAMPER	LOCAL-LM			DB-1000			3	TA 12 33 18
		OG-B MILD			A4 J N/A	N/A		4	YES
								5	G5 3 S
*1M36 F 0060B	OFF-GAS BUILDING EXHAUST SYSTEM	MECH		049				1 SPO49-000-12 *	SPO49-000-12 *
1	AIR ACTUATED DAMPER POSITIONER	OGA/01-635			POWERS REGULATOR CO			2 A	A
	CONTROLLER	1M36 F 0060B			311-2799			3 C 40Y 40Y	TA 12 33 33
		OG-B MILD			A4 J N/A	N/A		4 YES	YES
								5 YES	G5 3 S
*1M36 F 0060B	OFF-GAS BUILDING EXHAUST SYSTEM	MECH		049				1	* SPO49-000-12 *
	SYSTEM TRAIN ISOLATION	OGA/01-635			PAPCO			2	A
	DAMPER	LOCAL-LM			DB-1000			3	TA 12 33 18
		OG-B MILD			A4 J N/A	N/A		4	YES
								5	G5 3 S
*1M39 B 0001A	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA D1	646				1	* SP646-000*00 *
	RHR A AIR HANDLING UNIT	AXC/07-574			CARRIER			2	A
	FAN	LOCAL-CF			39ED15			3	AH 42 42 42
		AB-4 HARSH			A1 J N/A	N/A		4	YES
								5	A1 3 S
*1M39 B 0001B	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA D2	646				1	* SP646-000*00 *
	RHR B AIR HANDLING UNIT	AXC/04-574			CARRIER			2	A
	FAN	LOCAL-CF			39ED15			3	AH 42 42 42
		AB-4 HARSH			A1 J N/A	N/A		4	YES
								5	A1 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV, ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/JPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M39 B 0002	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA	D2	646		1	* SP646-000*00 *
	RHR C COOLING AIR HANDLING UNIT	AXB/05-574			CARRIER		2	A
	FAN	LOCAL-CF			39ED15		3	AH 42 42 42
		AB-4 HARSH			A1 J	N/A	4	YES
							5	A1 3 S
*1M39 B 0003	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA	D3	646		1	* SP646-000*00 *
	HPCS PUMP ROOM AIR HANDLING UNIT	AXC/03-574			CARRIER		2	A
	FAN	LOCAL-CF			39ED15		3	AH 42 42 42
		AB-2 HARSH			A1 J	N/A	4	YES
							5	A1 3 S
*1M39 B 0004	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA	D1	646		1	* SP646-000*00 *
	RCIC PUMP ROOM AIR HANDLING UNIT	AXB/06-574			CARRIER		2	A
	FAN	LOCAL-CF			39BA050		3	AI 15 29 06
		AB-3 HARSH			A1 J	N/A	4	YES
							5	A1 3 S
*1M39 B 0006	ECCS PUMP ROOM COOLING SYSTEM	MECH	NA	D1	646		1	* SP646-000*00 *
	LPCS PUMP ROOM AIR HANDLING UNIT	AXC/08-574			CARRIER		2	A
	FAN	LOCAL-CF			39ED15		3	AH 42 42 42
		AB-2 HARSH			A1 J	N/A	4	YES
							5	A1 3 S
*1M43 C 0001A	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648		1	* SP648-000*00 *
1	SUPPLY FAN	DGC/02-635			BUFFALO FORGE CO		2	A
	AXIAL FAN	LOCAL-CW			60D5		3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 C 0001B	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648		1	* SP648-000*00 *
1	SUPPLY FAN	DGA/02-635			BUFFALO FORGE CO		2	A
	AXIAL FAN	LOCAL-CW			60D5		3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/O ^o D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M43 C 0001C	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648			1	* SP648-000*00 *
1	SUPPLY FAN	DGB/O2-635			BUFFALO FORGE CO			2	A
	AXIAL FAN	LOCAL-CW			60D5			3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 C 0002A	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648			1	* SP648-000*00 *
1	SUPPLY FAN	DGC/O2-635			BUFFALO FORGE CO			2	A
	AXIAL FAN	LOCAL-CW			60D5			3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 C 0002B	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648			1	* SP648-000*00 *
1	SUPPLY FAN	DGA/O2-635			BUFFALO FORGE CO			2	A
	AXIAL FAN	LOCAL-CW			60D5			3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 C 0002C	DIESEL GEN BLDG VENTILATION SYSTEM	MECH			648			1	* SP648-000*00 *
1	SUPPLY FAN	DGB/O2-635			BUFFALO FORGE CO			2	A
	AXIAL FAN	LOCAL-CW			60D5			3	AH 45 38 45
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0020A	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	E	D1	049			1	* SP049-091-09 *
	OUTSIDE AIR DAMPER	DGD/O2-646			PAPCO			2	A
	DAMPER	LOCAL-CF			0B-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0020B	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	F	D2	049			1	* SPC49-091-09 *
	OUTSIDE AIR DAMPER	DGB/O2-646			PAPCO			2	A
	DAMPER	LOCAL-CF			0B-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M43 F 0020C	DIESEL GENERATOR BLDG VENT SYSTEM OUTSIDE AIR DAMPER DAMPER	MECH	E	D3	049			1	* SPO49-091-09 *
		DGC/02-646			PAPCO			2	A
		LOCAL-CF			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0030A	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D1	049			1	* SPO49-091-09 *
		DGD/02-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0030B	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	F	D2	049			1	* SPO49-091-09 *
		DGB/02-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0030C	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D3	049			1	* SPO49-091-09 *
		DGC/02-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0031A	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D1	049			1	* SPO49-091-09 *
		DGD/02-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0031B	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	F	D2	049			1	* SPO49-091-09 *
		DGB/02-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMC-H2 DEMO	RRS-DP-LDS S-O-R
*1M43 F 0031C	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	E	D3	049		1	* SP049-091-09 *
	RETURN AIR DAMPER	DGC/O2-646			PAPCO		2	A
	DAMPER	LOCAL-LM			OB-1000		3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 F 0070A	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	C	D1	049		1	* SP049-000-09 *
	EXHAUST LOUVER	DGD/O1-646			CONSTRUCTION SPEC		2	A
	LOUVER	LOCAL-CW			9880E		3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 F 0070B	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	C	D2	049		1	* SP049-000-09 *
	EXHAUST LOUVER	DGB/O1-646			CONSTRUCTION SPEC		2	A
	LOUVER	LOCAL-CW			9880E		3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 F 0070C	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	C	D3	049		1	* SP049-000-09 *
	EXHAUST LOUVER	DGC/O1-646			CONSTRUCTION SPEC		2	A
	LOUVER	LOCAL-CW			9880E		3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 F 0080A	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	C	D1	049		1	* SP049-000-09 *
	EXHAUST LOUVER	DGC/O1-646			CONSTRUCTION SPEC		2	A
	LOUVER	LOCAL-CW			9880E		3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S
*1M43 F 0080B	DIESEL GENERATOR BLDG VENT SYSTEM	MECH	C	D2	049		1	* SP049-000-09 *
	EXHAUST LOUVER	DGA/O1-646			CONSTRUCTION SPEC		2	A
	LOUVER	LOCAL-CW			9880E		3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	4	YES
							5	D2 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/DPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M43 F 0080C	DIESEL GENERATOR BLDG VENT SYSTEM EXHAUST LOUVER LOUVER	MECH	C	D3	049			1	* SPO49-000-09 *
		DGB/O1-646			CONSTRUCTION SPEC			2	A
		LOCAL-CW			9880E			3	TA 30 12 15
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0220A	DIESEL GENERATOR BLDG VENT SYSTEM OUTSIDE AIR DAMPER DAMPER	MECH	F	D1	049			1	* SPO49-091-09 *
		DGC/O2-646			PAPCO			2	A
		LOCAL-CF			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0220B	DIESEL GENERATOR BLDG VENT SYSTEM OUTSIDE AIR DAMPER DAMPER	MECH	E	D2	049			1	* SPO49-091-09 *
		DGA/O2-646			PAPCO			2	A
		LOCAL-CF			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0220C	DIESEL GENERATOR BLDG VENT SYSTEM OUTSIDE AIR DAMPER DAMPER	MECH	E	D3	049			1	* SPO49-091-09 *
		DGC/O2-646			PAPCO			2	A
		LOCAL-CF			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0230A	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	F	D1	049			1	* SPO49-091-09 *
		DGC/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S
*1M43 F 0230B	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	F	D2	049			1	* SPO49-091-09 *
		DGA/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 S

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M43 F 0230C	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D3	049			1	* SP049-091-09 *
		DGB/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 5
*1M43 F 0231A	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	F	D1	049			1	* SP049-091-09 *
		DGC/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 5
*1M43 F 0231B	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D2	049			1	* SP049-091-09 *
		DGA/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 5
*1M43 F 0231C	DIESEL GENERATOR BLDG VENT SYSTEM RETURN AIR DAMPER DAMPER	MECH	E	D3	049			1	* SP049-091-09 *
		DGB/O2-646			PAPCO			2	A
		LOCAL-LM			OB-1000			3	TA 33 33 33
		DG-1 MILD			A4 J	N/A	N/A	4	YES
								5	D2 3 5
*1M51 C 0001A	COMBUSTIBLE GAS CONTROL SYSTEM HYDROGEN MIXING COMPRESSOR	MECH			632			1	* SP632-000-02 *
1		C O/15-664			TURBONETICS			2	A
		LOCAL-CF			SC-6			3	TA 14 14 14
		CT-4 HARSH	H2		A1 J	N/A	N/A	4	YES
								5	LATER EQ644 2 S H
*1M51 C 0001B	COMBUSTIBLE GAS CONTROL SYSTEM HYDROGEN MIXING COMPRESSOR	MECH			632			1	* SP632-000-02 *
1		C O/13-664			TURBONETICS			2	A
		LOCAL-CF			SC-6			3	TA 14 14 14
		CT-4 HARSH	H2		A1 J	N/A	N/A	4	YES
								5	LATER EQ644 2 S H

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1	GE PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----	
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER				1-2	SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL					3-4	M-LF-MI/OPD-SEAL	M-LNF FB-3S-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT				5	ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M51 F 0010A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			52102				1	*	SP521-002*38 *
1	COMBUSTIBLE GAS PURGING UNIT	C 0/16-670			BORG WARNEF				2	A	
	4 INCH GLOBE VALVES	LOCAL-LM			81300				3	AH 41 41 NA	
		CT-7 HARSH	H2	A1 F	N/A	32.7	SEC		4	YES	
									5	LATER	S H 3
*1M51 F 0010B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			52102				1	*	SP521-002*38 *
1	COMBUSTIBLE GAS PURGING UNIT D	C 0/13-670			BORG WARNER				2	A	
	4 INCH GLOBE VALVE	LOCAL-LM			81300				3	AH 41 41 NA	
		CT-4 HARSH	H2	A1 F	N/A	32.7	SEC		4	YES	
									5	LATER	S H 3
*1M51 F 0020A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			53106				1	*	
1	COMP. COOLING WTR. SUPPLY	C 0/15-670			ROCKWELL				2	B	
	2 INCH GLOBE VALVES	LOCAL-LM			15014MPT2				3		
		CT-4 HARSH	H2	A1 F	N/A	N/A			4		
									5	LATER	
*1M51 F 0020B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			53106				1	*	
1	COMP. COOLING WTR. SUPPLY	C 0/13-670			ROCKWELL				2	B	
	2 INCH GLOBE VALVE	LOCAL-LM			15014MPT2				3		
		CT-4 HARSH	H2	A1 F	N/A	N/A			4		
									5	LATER	
*1M51 F 0090	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			53106				1	*	
1	BACKUP H2 PURGE INSIDE CONTAIN	C 0/12-620			ROCKWELL				2	B	
	2 INCH GLOBE VALVES	LOCAL-LM			15014MPT2				3		
		CT-3 HARSH		A1 A	N/A	N/A			4		
									5		
*1M51 F 0110	COMBUSTIBLE GAS CONTROL SYSTEM	MECH			53106				1	*	
1	BACKUP H2 PURGE OUTSIDE CONTAIN	IBD/05-624			ROCKWELL				2	B	
	2 INCH GLOBE VALVES	LOCAL-LM			15014MPT2				3		
		FB-5 MILD		A4 A	N/A	N/A			4		
									5		

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1M51 F 0310A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-01 *	SP611-000*02 *
	OXYGEN PRESSURE REGULATOR	AXD/03-620	CIRCLE SEAL CONTROLS	2 A	A
	GAS PRESSURE	1H51 P 0903A	CRR20S250GR	3 A 40Y 05Y	TA
	REGULATOR	AB-1 MILD	A4 J N/A N/A	4	YES
				5	A3 2 S
*1M51 F 0310B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-01 *	SP611-000*02 *
	OXYGEN PRESSURE REGULATOR	IBB/02-682	CIRCLE SEAL CONTROLS	2 A	A
	GAS PRESSURE	1H51 P 0903B	CRR20S250GR	3 A 40Y 05Y	TA
	REGULATOR	FB-4 MILD	A4 J N/A N/A	4	YES
				5	IB7 2 S
*1M51 F 0315A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-01 *	SP611-000*02 *
	CIRCLE SEAL MODEL CRR20S250GR	AXD/03-620	CIRCLE SEAL CONTROLS	2 A	A
	GAS PRESSURE	1H51 P 0903A	CRR20S250GR	3 A 40Y 05Y	TA
	REGULATOR	AB-1 MILD	A4 J N/A N/A	4	YES
				5	A3 2 S
*1M51 F 0315B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	611	1 SP611-000-01 *	SP611-000*02 *
	OXYGEN PRESSURE REGULATOR	IBB/02-682	CIRCLE SEAL CONTROLS	2 A	A
	GAS PRESSURE	1H51 P 0903B	CRR20S250GR	3 A 40Y 05Y	TA
	REGULATOR	FB-4 MILD	A4 J N/A N/A	4	YES
				5	IB7 2 S
*1M51 F 0501A	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	52101	1	* SP521-001 00 *
	DRYWELL ISOL.	C I/ -664	TRW MISSION	2	A
	4 INCH CHECK VALVE	LOCAL-LM	K15ACEF-V73	3	AH NA NA NA
		DW-4 HARSH H2	A1 J N/A N/A	4	YES
				5	LATER S H 3
*1M51 F 0501B	COMBUSTIBLE GAS CONTROL SYSTEM	MECH	52101	1	* SP521-001 00 *
	DRYWELL ISOL.	C I/ -664	TRW MISSION	2	A
	4 INCH CHECK VALVE	LOCAL-LM	K15ACEF-V73	3	AH NA NA NA
		DW-4 HARSH H2	A1 J N/A N/A	4	YES
				5	LATER S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1N11 F 0020A	MAIN AND REHEAT STEAM SYSTEM	MECH	52102	1	* SP521-002*36 *
1	MAIN STEAM STOP 3RD ISO	SM / -620	BORG WARNER	2	A
	28 INCH GATE VALVES	LOCAL-LM	81240-1	3	AH 42 42 NA
		AB-7 HARSH	A1 B N/A 140. SEC	4	YES
				5	S 3
*1N11 F 0020B	MAIN AND REHEAT STEAM SYSTEM	MECH	52102	1	* SP521-002*36 *
1	MAIN STEAM STOP 3RD ISO	SM / -620	BORG WARNER	2	A
	28 INCH GATE VALVES	LOCAL-LM	81240-1	3	AH 42 42 NA
		AB-7 HARSH	A1 B N/A 140. SEC	4	YES
				5	S 3
*1N11 F 0020C	MAIN AND REHEAT STEAM SYSTEM	MECH	52102	1	* SP521-002*36 *
1	MAIN STEAM STOP 3RD ISO	SM / -620	BORG WARNER	2	A
	28 INCH GATE VALVES	LOCAL-LM	81240-1	3	AH 42 42 NA
		AB-7 HARSH	A1 B N/A 140. SEC	4	YES
				5	S 3
*1N11 F 0020D	MAIN AND REHEAT STEAM SYSTEM	MECH	52102	1	* SP521-002*36 *
1	MAIN STEAM STOP 3RD ISO	SM / -620	BORG WARNER	2	A
	28 INCH GATE VALVES	LOCAL-LM	81240-1	3	AH 42 42 NA
		AB-7 HARSH	A1 B N/A 140. SEC	4	YES
				5	S 3
*1N22 F 0420A	MAIN/REHEAT/EXTRACTION & MISC DRAINS	MECH	60701	1	SP607-001-01 *
	1N11 FO20A BEFORE SEAT, DR	AXA/05-620	FISHER CONTROLS	2	A
	CONTROL VALVE	LOCAL-LM	1.5DBQNS-667NS(45)	3	E 40Y 04Y AH 63
	ON-OFF SERVICE	AB-7 HARSH	A1 A N/A 10.0 SEC	4	YES
				5	YES S 3
*1N22 F 0420B	MAIN/REHEAT/EXTRACTION & MISC DRAINS	MECH	60701	1	SP607-001-01 *
	1N11 FO20B BEFORE SEAT, DR	AXA/05-620	FISHER CONTROLS	2	A
	CONTROL VALVE	LOCAL-LM	1.5DBQNS-667NS(45)	3	E 40Y 04Y AH 63
	ON-OFF SERVICE	AB-7 HARSH	A1 A N/A 10.0 SEC	4	YES
				5	YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DFMO	RPS-DP-LDS S-D-R
*1N22 F 0420C	MAIN/REHEAT/EXTRACTION & MISC DRAINS 1N11 F020C BEFORE SEAT DR. CONTROL VALVE ON-OFF SERVICE	MECH AXA/05-620 LOCAL-LM AB-7 HARSH	60701 FISHER CONTROLS 1.5DBONS-667NS(45) A1 A N/A 10.0 SEC	1 SP607-001-01 * 2 A 3 E 40Y 04Y 4 YES 5 YES	SP607-001-03 * A AH 63 YES S 3
*1N22 F 0420D	MAIN/REHEAT/EXTRACTION & MISC DRAINS 1N11 F020D BEFORE SEAT DR. CONTROL VALVE ON-OFF SERVICE	MECH AXA/05-620 LOCAL-LM AB-7 HARSH	60701 FISHER CONTROLS 1.5DBONS-667NS(45) A1 A N/A 10.0 SEC	1 SP607-001-01 * 2 A 3 E 30Y 04Y 4 YES 5 YES	SP607-001-03 * A AH 63 YES S 3
*1N27 F 0559A	FEEDWATER SYSTEM RX. FEED CHECK 20 INCH CHECK VALVES	MECH C I/02-624 LOCAL-LM DW-1 HARSH	52103 ROCKWELL 7592 (WCC) JNQTY A1 C N/A N/A	1 2 3 4 5	* SP521-003*12 * A AH NA NA NA YES S H 3
*1N27 F 0559B	FEEDWATER SYSTEM RX. FEED CHECK 20 INCH CHECK VALVES	MECH C I/17-624 LOCAL-LM DW-1 HARSH	52103 ROCKWELL 7592 (WCC) JNQTY A1 C N/A N/A	1 2 3 4 5	* SP521-003*12 * A AH NA NA NA YES S H 3
*1N27 F 0737 1	FEEDWATER SYSTEM INBOARD FW-LCS ISOL. VALVE 1-1/2 INCH GLOBE VALVES	MECH AXB/04-620 LOCAL-LM AB-7 HARSH	53106 ROCKWELL 15004MPRT1 A1 J N/A N/A	1 2 3 4 5	* B * * * *
*1N27 F 0739A	FEEDWATER SYSTEM INBOARD FW-LCS ISOL. VALVE 1 INCH CHECK VALVE	MECH SM / -620 LOCAL-LM AB-7 HARSH	53104 KERUTEST D-31608 A1 J N/A N/A	1 2 3 4 5	* SP531-004*01 * A AG 55 NA NA YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1N27 F 0739B	FEEDWATER SYSTEM	MECH	53104	1	* SP531-004*01 *
	INBOARD FW-LCS ISOL. VALVE	SM / -620	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	D31608	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1N27 F 0740	FEEDWATER SYSTEM	MECH	53106	1	* B *
1	OUTBOARD FW-LCS ISOL. VALVE	AXB/06-620	ROCKWELL	2	
	1-1/2 INCH GLOBE	LOCAL-LM	15004MPRT1	3	
	VALVES	AB-7 HARSH	A1 J N/A N/A	4	
				5	
*1N27 F 0742A	FEEDWATER SYSTEM	MECH	53104	1	* SP531-004*01 *
	OUTBOARD FW-LCS ISOL. VALVE	SM / -620	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	D31608	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1N27 F 0742B	FEEDWATER SYSTEM	MECH	53104	1	* SP531-004*01 *
	OUTBOARD FW-LCS ISOL. VALVE	SM / -620	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	D31608	3	AG 55 NA NA
		AB-7 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1N27 F 0783	FEEDWATER SYSTEM	MECH	53104	1	* SP531-004*01 *
	TEST LINE TO RHR	AX /04-599	KEROTEST	2	A
	1 INCH CHECK VALVE	LOCAL-LM	D31608	3	AG 55 NA NA
		AB-3 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1P11 F 0060	CONDENSATE TRANSFER & STORAGE SYSTEM	MECH	524	1	* SP524-000*04 *
1	OUTBOARD CONTAINMENT ISOL.	AXE/08-599	CONTROMATICS	2	A
	12 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 23 30 23
	VALVES	AB-9 HARSH	A1 A N/A 30.0 SEC	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SDRT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/DP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P11 F 0080	CONDENSATE TRANSFER & STORAGE SYSTEM	MECH	524	1	SP524-000*09 *
1	CONTAINMENT POOL DR. LINE OUTB	AXE/08-589	CONTROMATICS	2	A
	12 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	AB-9 HARSH	A1 A N/A 30.0 SEC	4	YES
				5	S H 3
*1P11 F 0090	CONDENSATE TRANSFER & STORAGE SYSTEM	MECH	524	1	SP524-000*09 *
1	CONTAINMENT POOL DR. LINE INSD	C 0/03-605	CONTROMATICS	2	A
	10 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 45 31 45
	VALVES	CT-2 HARSH	A1 A N/A 30.0 SEC	4	YES
				5	S H 3
*1P11 F 0545	CONDENSATE TRANSFER & STORAGE SYSTEM	MECH	52101	1	SP521-001 00 *
	INBOARD CONTAINMENT ISOL INFL	C 0/03-605	TRW MISSION	2	A
	12 INCH CHECK VALVE	LOCAL-LM	KISSEF-V75	3	AH NA NA NA
		CT-2 HARSH	A1 C N/A N/A	4	YES
				5	S H 3
*1P22 F 0010	MIXED BED DEMIN AND DISTRIBUTION	MECH	52102	1	SP521-002*35 *
1	CNT. ISO. PEN P309	IBN/03-599	BORG WARNER	2	A
	3 INCH GAT. VALVES	LOCAL-LM	81260	3	AH 42 42 NA
		FB-1 MILD	A4 J N/A 22.0 SEC	4	YES
				5	S H 3
*1P22 F 0015	MIXED BED DEMINERALIZER SYSTEM	MECH	53101	1	SP531-001*03 *
1	PNEUMATIC SEAT TEST REQUIRED	C 0/09-620	DRESSER	2	A
	1-1/4 INCH GLOBE	LOCAL-LM	7150	3	CCH NA NA B5
	VALVE	CT-3 HARSH	A1 C N/A N/A	4	YES
				5	S H 3
*1P22 F 0577	MIXED BED DEMIN AND DISTRIBUTION	MECH	52102	1	SP521-002*60 *
	CNT. ISOL. PEN 309	C 0/13-605	BORG WARNER	2	A
	3 INCH CHECK VALVES	LOCAL-LM	81480	3	AH NA NA NA
		CT-2 HARSH H2	A1 J N/A N/A	4	YES
				5	LATER S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURC	DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER			1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL				3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT			5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P42 F 0566A	EMERGENCY CLOSED COOLING SYSTEM	MECH			523			1	* SP523-000*02 *
	THERMAL EXP. RELIEF	AXC/07-577			TARGET ROCK CORP.			2	A
	3/4 INCH X 1 INCH	LOCAL-LM			76H-001			3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH			A2 J N/A	N/A		4	YES
								5	S 3
*1P42 F 0566B	EMERGENCY CLOSED COOLING SYSTEM	MECH			523			1	* SP523-000*02 *
	THERMAL EXP. RELIEF	AXC/03-577			TARGET ROCK CORP.			2	A
	3/4 INCH X 1 INCH	LOCAL-LM			76H-001			3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH			A2 J N/A	N/A		4	YES
								5	S 3
*1P42 F 0566C	EMERGENCY CLOSED COOLING SYSTEM	MECH			523			1	* SP523-000*02 *
	THERMAL EXP. RELIEF	AXC/04-574			TARGET ROCK CORP.			2	A
	3/4 INCH X 1 INCH	LOCAL-LM			76H-001			3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH			A2 J N/A	N/A		4	YES
								5	S 3
*1P42 F 0570	EMERGENCY CLOSED COOLING SYSTEM	MECH			523			1	* SP523-000*02 *
	THERMAL EXP. RELIEF	AXB/06-574			TARGET ROCK CORP.			2	A
	3/4 INCH X 1 INCH	LOCAL-LM			76H-001			3	CFH NA NA NA
	RELIEF VALVE	AB-3 HARSH			A2 J N/A	N/A		4	YES
								5	S 3
*1P43 F 0055	NUCLEAR CLOSED COOLING SYSTEM	MECH			524			1	* SP524-000*04 *
1	OUTBOARD CNT. ISOL. INFLUENT	IBB/02-605			CONTRONATICS			2	A
	12 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB			3	TD 23 30 23
	VALVES	FB-1 MILD			A4 A N/A	30.0 SEC		4	YES
								5	S H 3
*1P43 F 0140	NUCLEAR CLOSED COOLING SYSTEM	MECH			524			1	* SP524-000*04 *
1	OUTBOARD CNT. ISOL. EFFLUENT	IBB/03-605			CONTRONATICS			2	A
	12 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB			3	TD 23 30 23
	VALVES	FB-1 MILD			A4 A N/A	30.0 SEC		4	YES
								5	S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP	NO	1	GE	PURCH	DWG	-ENVIRONMENTAL-	-----SEISMIC-----	
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER						1-2	SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEI							3-4	M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT						5	ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P43 F 0215	NUCLEAR CLOSED COOLING SYSTEM	MECH			524						1		* SP524-000*04 *
1	INBOARD CNT. ISOL. EFFLUENT	C 0/14-605			CONTROMATICS						2		A
	12 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB						3		TD 23 30 23
	VALVES	CT-2 HARSH			A1 A N/A	30.0	SEC				4		YES
											5		S H 3
*1P43 F 0355	NUCLEAR CLOSED COOLING SYSTEM	MECH			524						1		* SP524-000*09 *
1	OUTBOARD DRYWELL ISOL. INFLUEN.	C 0/16-605			CONTROMATICS						2		A
	10 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB						3		TA 45 31 45
	VALVES	CT-2 HARSH			A1 A N/A	10.0	SEC				4		YES
											5		S H 3
*1P43 F 0400	NUCLEAR CLOSED COOLING SYSTEM	MECH			524						1		* SP524-000*09 *
1	DRYWELL ISOL. EFFLUENT	C 0/14-605			CONTROMATICS						2		A
	10 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB						3		TA 45 31 45
	VALVES	CT-2 HARSH			A1 A N/A	10.0	SEC				4		YES
											5		S H 3
*1P43 F 0410	NUCLEAR CLOSED COOLING SYSTEM	MECH			524						1		* SP524-000*09 *
1	DRYWELL ISOL. EFFLUENT	C 0/15-605			CONTROMATICS						2		A
	10 INCH BUTTERFLY	LOCAL-LM			C-W2566-BB						3		TA 45 31 45
	VALVES	CT-2 HARSH			A1 A N/A	10.0	SEC				4		YES
											5		S H 3
*1P43 F 0721	NUCLEAR CLOSED COOLING SYSTEM	MECH			52101						1		* SP521-001 00 *
	INFLUENT CNT. ISOL. V/V. INBOA	C 0/14-605			TRW MISSION						2		A
	12 INCH CHECK VALVE	LOCAL-LM			K15SEF-V75						3		AH NA NA NA
		CT-2 HARSH			A1 C N/A	N/A					4		YES
											5		S H 3
*1P43 F 0722	NUCLEAR CLOSED COOLING SYSTEM	MECH			52101						1		* SP521-001 00 *
	INFLUENT DRYWELL ISOL. INBOARD	C 0/16-605			TRW MISSION						2		A
	10 INCH CHECK	LOCAL-LM			K15SEF-V75						3		AH NA NA NA
		CT-2 HARSH			A1 C N/A	N/A					4		YES
											5		S H 3

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P45 C 0001A	EMERGENCY SERVICE WATER SYSTEM	MECH	501	1	* SP501-000*01 *
	PUMP	EWA/05-586	GOULD	2	A
	VERTICAL PUMP	LOCAL-CF	20X30 BLC	3	AG 09 09 50
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 3 S
*1P45 C 0001B	EMERGENCY SERVICE WATER SYSTEM	MECH	501	1	* SP501-000*01 *
	PUMP	EWA/0J-586	GOULD	2	A
	VERTICAL PUMP	LOCAL-CF	20X30 BLC	3	AG 09 09 50
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 3 S
*1P45 C 0002	EMERGENCY SERVICE WATER SYSTEM	MECH	501	1	* SP501-000 00 *
	PUMP	EWA/05-586	GOULD	2	A
	VERTICAL PUMP	LOCAL-CF	8X12 JMC	3	AG 14 14 50
		ES-W MILD	A4 J N/A	N/A 4	YES
				5	E2 3 S
*1P45 F 0014A	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*06 *
1	RHR HEAT EXCH ISO.	AXB/07-593	CONTROMATICS	2	A
	20 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 40 40 40
	VALVES	AB-4 HARSH	A1 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0014B	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*06 *
1	RHR HEAT EXCH ISO.	AXB/03-574	CONTROMATICS	2	A
	20 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 40 40 40
	VALVES	AB-4 HARSH	A1 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0068A	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*06 *
1	RHR HEAT EXCH ISO.	AXB/06-574	CONTROMATICS	2	A
	20 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 40 40 40
	VALVES	AB-4 HARSH	A1 J N/A 30.0 SEC	4	YES
				5	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2	SUM-ENV/ENV QFD SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4	M-LF-MI/OPD-SEAL M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5	ART DEMO-H2 DEMO RRS-DP-LDS S-O-R
*1P45 F 0068B	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*06 *
1	RHR HEAT EXCH ISO.	AXB/03-574	CONTROMATICS	2	A
	20 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 40 40 40
	VALVES	AB-4 HARSH	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0130A	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*10 *
1	EM. SERVICE WTR. PUMP ISOL.	EWD/05-586	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 46 56 46
	VALVES	ES-W MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0130B	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*10 *
1	EM. SERVICE WTR. PUMP ISOL.	EWD/03-586	CONTROMATICS	2	A
	24 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 46 56 46
	VALVES	ES-W MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0140	EMERGENCY SERVICE WATER SYSTEM	MECH	524	1	* SP524-000*07 *
1	EM. SERVICE WTR. PUMP ISOL.	EWC/01-586	CONTROMATICS	2	A
	8 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TA 24 26 24
	VALVES	ES-W MILD	A4 J N/A 30.0 SEC	4	YES
				5	S 3
*1P45 F 0501A	EMERGENCY SERVICE WATER SYSTEM	MECH	52101	1	* SP521-001 00 *
	ESW PUMP DISCH	EWC/05-586	TRW MISSION	2	A
	24 INCH CHECK VALVE	LOCAL-LM	K15SPF-V80	3	AH NA NA NA
		ES-W MILD	A4 J N/A N/A	4	YES
				5	S 3
*1P45 F 0501B	EMERGENCY SERVICE WATER SYSTEM	MECH	52101	1	* SP521-001 00 *
	ESW PUMP DISCH	EWC/03-586	TRW MISSION	2	A
	24 INCH CHECK VALVE	LOCAL-LM	K15SPF-V80	3	AH NA NA NA
		ES-W MILD	A4 J N/A N/A	4	YES
				5	S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
	SERVICE (2) EQUIPMENT (2)	LOCATION SUPPORT ZONE M/H	MANUFACTURER MODEL EC-FT-CAT-ACC-RT	1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1P45 F 0531B	EMERGENCY SERVICE WATER SYSTEM THERMAL EXP. RELIEF 3/4 INCH X 1 INCH RELIEF VALVE	MECH DGA/02-620 LOCAL-LM DG-1 MILD	523 TARGET ROCK CORP. 76H-001 A4 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1P45 F 0537A	EMERGENCY SERVICE WATER SYSTEM THERMAL EXP. RELIEF 3/4 INCH X 1 INCH RELIEF VALVE	MECH CCC/03-574 LOCAL-LM CB-5 MILD	523 TARGET ROCK CORP. 76H-001 A4 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1P45 F 0537B	EMERGENCY SERVICE WATER SYSTEM THERMAL EXP. RELIEF 3/4 INCH X 1 INCH RELIEF VALVE	MECH CCC/04-574 LOCAL-LM CB-5 MILD	523 TARGET ROCK CORP. 76H-001 A4 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1P45 F 0543A	EMERGENCY SERVICE WATER SYSTEM RELIEF 3/4 X 1 SET 150PSIQ 3/4 INCH X 1 INCH RELIEF VALVE	MECH AXB/08-599 LOCAL-LM AB-9 HARSH	523 TARGET ROCK CORP. 76H-001 A2 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1P45 F 0543B	EMERGENCY SERVICE WATER SYSTEM RELIEF 3/4 X 1 SET 150PSIG 3/4 INCH X 1 INCH RELIEF VALVE	MECH AXB/03-599 LOCAL-LM AB-9 HARSH	523 TARGET ROCK CORP. 76H-001 A2 J N/A N/A	1 2 3 4 5	* SP523-000*02 * A CFH NA NA NA YES S 3
*1P45 F 0552	EMERGENCY SERVICE WATER SYSTEM ECC PUMP "C" DISCH. 8 INCH CHECK VALVE	MECH EWC/01-586 LOCAL-LM ES-W MILD	52101 TRW MISSION K15SPF-V80 A4 J N/A N/A	1 2 3 4 5	* SP521-001 00 * A AH NA NA NA YES S 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P45 F 0571A	EMERGENCY SERVICE WATER SYSTEM	MECH	523	1	* SP523-000*02 *
	RHR HEAT EXCH ISO.	AXB/06-574	TARGET ROCK CORP.	2	A
	1-1/2 INCH X 2 INCH	LOCAL-LM	76H-006	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1P45 F 0571B	EMERGENCY SERVICE WATER SYSTEM	MECH	523	1	* SP523-000*02 *
	RHR HEAT EXCH ISOL	AXB/04-574	TARGET ROCK CORP.	2	A
	1-1/2 INCH X 2 INCH	LOCAL-LM	76H-006	3	CFH NA NA NA
	RELIEF VALVE	AB-4 HARSH	A2 J N/A N/A	4	YES
				5	S 3
*1P45 F 0575	EMERGENCY SERVICE WATER SYSTEM	MECH	52101	1	* SP521-001 00 *
	RHR HEAT EXCH ISO.	AXC/04-599	TRW MISSION	2	A
	18 INCH CHECK VALVE	LOCAL-LM	K30SPF-V74	3	AH NA NA NA
		AB-5 HARSH	A1 J N/A N/A	4	YES
				5	S 3
*1P50 F 0060	CONTAINMENT VESSEL CHILLED WATER	MECH	524	1	* SP524-000*03 *
1	OUTBOARD CONTAINMENT SUPPLY	IBA/03-599	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	FB-1 MILD	A4 A N/A 30.0 SEC	4	YES
				5	S H 3
*1P50 F 0140	CONTAINMENT VESSEL CHILLED WATER	MECH	524	1	* SP524-000*03 *
1	INBOARD CONTAINMENT RET. ISOL.	C 0/14-599	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	CT-2 HARSH	A1 A N/A 30.0 SEC	4	YES
				5	S H 3
*1P50 F 0150	CONTAINMENT VESSEL CHILLED WATER	MECH	524	1	* SP524-000*03 *
1	OUTBOARD CONTAINMENT RET. ISOL.	IBP/03-599	CONTROMATICS	2	A
	6 INCH BUTTERFLY	LOCAL-LM	C-W2566-BB	3	TD 25 21 25
	VALVES	FB-1 MILD	A4 A N/A 30.0 SEC	4	YES
				5	S H 3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P50 F 0539	CONTAINMENT VESSEL CHILLED WATER INBOARD CONTAINMENT ISOL. 6 INCH CHECK VALVE	MECH C 0/15-599 LOCAL-LM CT-2 HARSH	52101 TRW MISSION K15SEF-V75 A1 C N/A	1 2 3 4 5	* SP521-001 00 * A AH NA NA NA YES S H 3
*1P51 F 0530	SERVICE AIR SYSTEM INBOARD INFLUENT CONTAINMENT I 2-1/2 INCH CHECK VALVE	MECH C 0/13-602 LOCAL-LM CT-2 HARSH	52102 BORG WARNER 81440 A1 C N/A	1 2 3 4 5	* SP521-002*64 * A AH NA NA NA YES S H 3
*1P51 F 0652 1	SERVICE AIR SYSTEM DRYWELL ISOLATION 1-1/2 INCH GLOBE VALVES	MECH C 0/08-620 LOCAL LM CT-3 HARSH H2	53106 ROCKWELL 15004MPT2 A1 J N/A 8.00 SEC	1 2 3 4 5	* B LATER
*1P51 F 0653 Y	SERVICE AIR SYSTEM 1-1/2 INCH CHECK VALVE	MECH C 0/08-620 LOCAL-LM CT-3 HARSH	53101 DRESSER 5580W A1 C N/A	1 2 3 4 5	* SP531-001*01 * A AH NA NA NA YES S H 3
*1P52 F 0200 1	INSTRUMENT AIR SYSTEM OUTBOARD CONTAINMENT ISOLATION 2 INCH GLOBE VALVES	MECH IBC/02-599 LOCAL-LM FB-1 MILD	53106 ROCKWELL 15114MPT2 A4 A N/A	1 2 3 4 5	* B
*1P52 F 0550	INSTRUMENT AIR SYSTEM INBOARD INFLUENT CONTAINMENT 2 INCH CHECK VALVES	MECH C 0/13-605 LOCAL-LM CT-2 HARSH	53101 DRESSER 5580W A1 C N/A	1 2 3 4 5	* SP531-001*01 * A AH NA NA NA YES S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV MODEL		3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P52 F 0639	INSTRUMENT AIR SYSTEM	MECH	53101	1	* SP531-001*01 *
	ACCUMULATOR SUPPLY LINE ISOL	C 0/09-620	DRESSER	2	A
	2 INCH CHECK VALVE	LOCAL-LM	5580W	3	AH NA NA NA
		CT-3 HARSH	A1 C N/A N/A	4	YES
				5	S H 3
*1P52 F 0646	INSTRUMENT AIR SYSTEM	MECH	53105	1	* * *
1	DRYWELL ISOLATION	C 0/07-599	ROCKWELL	2	B
	2 INCH GLOBE VALVES	LOCAL-LM	15114MPT2	3	
		CT-3 HARSH H2	A1 J N/A N/A	4	
				5	LATER
*1P52 F 0784	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*27 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1 INCH CHECK VALVE	LOCAL-LM	N161-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P52 F 0785	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*27 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1 INCH CHECK VALVE	LOCAL-LM	N161-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P52 F 0786	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*27 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1 INCH CHECK VALVE	LOCAL-LM	N161-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P52 F 0787	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*27 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1 INCH CHECK VALVE	LOCAL-LM	N161-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H

SELECT : 04EMECH

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SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT ELEV	MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H H2	EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P52 F 0788	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H
*1P52 F 0789	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H
*1P52 F 0790	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H
*1P52 F 0791	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H
*1P52 F 0792	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/12-603	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H
*1P52 F 0793	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A	N/A 4	
				5	CV693 3 S H

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION	MANUFACTURER	1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV MODEL	3-4 M-LF-MI/OPD-SEAL	M-LNF FB-SS-V/OP D
		ZONE M/H	H2 EC-FT-CAT-ACC-RT	5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1P52 F 0794	INSTRUMENT AIR SYSTEM	MECH	66J	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P52 F 0795	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P52 F 0796	INSTRUMENT AIR SYSTEM	MECH	660	1	* SP660-000*26 *
	S-R ACCUMULATOR AIR SUP LINE ISO VLV	C 0/11-693	CIRCLE SEAL CORP	2	A
	1/2 INCH CHECK VALVE	LOCAL-LM	N160-180	3	AG NA NA NA
		CT-2 HARSH	A2 J N/A N/A	4	
				5	CV693 3 S H
*1P54 F 0340	FIRE PROTECTION SYSTEM	MECH	52102	1	* SP521-002*44 *
1	CONTAINMENT ISOLATION	IBC/08-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81110	3	AH 54 54 NA
		FB-2 MILD	A4 A N/A 20.0 SEC	4	YES
				5	S H 3
*1P54 F 0395	FIRE PROTECTION SYSTEM	MECH	52102	1	* SP521-002*44 *
1	DRYWELL ISOLATION	C 0/06-620	BORG WARNER	2	A
	4 INCH GATE VALVES	LOCAL-LM	81110	3	AH 54 54 NA
		CT-3 HARSH	A1 A N/A 20.0 SEC	4	YES
				5	S H 3
*1P54 F 1098	FIRE PROTECTION SYSTEM	MECH	52101	1	* SP521-001 00 *
	4 INCH CHECK VALVE	C 0/06-620	TRW MIS:ION	2	A
		LOCAL-LM	K15ACEF-V73	3	AH NA NA NA
		CT-3 HARSH	A1 C N/A N/A	4	YES
				5	S H 3

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	H2	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1P57 F 0005A	SAFETY RELATED INSTRUMENT AIR OUTLET PRESSURE REGULATOR 1 INCH PRESSURE REGULATOR	MECH IBE/05-602 LOCAL-LM FB-1 MILD		60704 TARGET ROCK CORP 80M-002 A4 J N/A N/A	1 2 3 4 5	* SP607-004*00 * A CDG 99 99 99 YES IB3 2 5 3
*1P57 F 0005B	SAFETY RELATED INSTRUMENT AIR OUTLET PRESSURE REGULATOR 1 INCH PRESSURE REGULATOR	MECH AXE/08-620 LOCAL-LM AB-1 MILD		60704 TARGET ROCK CORP 80M-002 A4 J N/A N/A	1 2 3 4 5	* SP607-004*00 * A CDG 99 99 99 YES A3 2 5 3
*1P57 F 0015A 1	SAFETY RELATED INSTRUMENT AIR SYSTEM CONTAINMENT ISOLATION 1 INCH GLOBE VALVES	MECH IBE/04-599 LOCAL-LM FB-1 MILD		53106 ROCKWELL 15114MPT2 A4 A N/A N/A	1 2 3 4 5	* B *
*1P57 F 0015B 1	SAFETY RELATED INSTRUMENT AIR SYSTEM CONTAINMENT ISOLATION 1 INCH GLOBE VALVES	MECH AXD/08-620 LOCAL-LM AB-1 MILD		53106 ROCKWELL 15114MPT2 A4 A N/A N/A	1 2 3 4 5	* B *
*1P57 F 0020A 1	SAFETY RELATED INSTRUMENT AIR SYSTEM CONTAINMENT ISOLATION 1 INCH GLOBE VALVES	MECH C 0/16-620 LOCAL-LM CT-3 HARSH		53106 ROCKWELL 15114MPT2 A1 A N/A N/A	1 2 3 4 5	* B *
*1P57 F 0020B 1	SAFETY RELATED INSTRUMENT AIR SYSTEM CONTAINMENT ISOLATION 1 INCH GLOBE VALVES	MECH C 0/03-620 LOCAL-LM CT-3 HARSH		53106 ROCKWELL 15114MPT2 A1 A N/A N/A	1 2 3 4 5	* B *

SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

C D NUMBER S	EQUIPMENT DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM LOCATION SUPPORT ZONE	REV M/H	DIV H2	SP NO ELEV	1 GE MODEL	PURCH DWG	-ENVIRONMENTAL-		-----SEISMIC-----			
								1-2	SUM-ENV/ENV QFD	SUM-SEI/SEI QFD	M-LF-MI/OPD-SEAL	M-LNF	FB-SS-V/OP D
*1P57 F 0509A	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			53102			1	*	SP531-002*02 *			
	1 INCH CHECK VALVE	IBE/04-605			BORG WARNER			2		A			
		LOCAL-LM			117DLB1-001			3		AH	NA	NA	NA
		FB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S		3
*1P57 F 0509B	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			53102			1	*	SP531-002*02 *			
	1 INCH CHECK VALVE	AXE/08-620			BORG WARNER			2		A			
		LOCAL-LM			117DLB1-001			3		AH	NA	NA	NA
		AB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S		3
*1P57 F 0512A	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			53102			1	*	SP531-002*02 *			
	1 INCH CHECK VALVE	IBE/04-605			BORG WARNER			2		A			
		LOCAL-LM			117DLB1-001			3		AH	NA	NA	NA
		FB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S		3
*1P57 F 0512B	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			53102			1	*	SP531-002*02 *			
	1 INCH CHECK VALVE	AXE/08-620			BORG WARNER			2		A			
		LOCAL-LM			117DLB1-001			3		AH	NA	NA	NA
		AB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S		3
*1P57 F 0513A	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			523			1	*	SP523-000*03 *			
	AIR RECEIVER TANK RELIEF VALVE	IBE/04-605			TARGET ROCK CORP.			2		A			
	1 INCH X 1-1/2 INCH	LOCAL-LM			76H-015			3		CFH	96	96	96
	RELIEF VALVE	FB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S	H	3
*1P57 F 0513B	SAFETY RELATED INSTRUMENT AIR SYSTEM	MECH			523			1	*	SP523-000*03 *			
	AIR RECEIVER TANK RELIEF VALVE	AXE/08-620			TARGET ROCK CORP.			2		A			
	1 INCH X 1-1/2 INCH	LOCAL-LM			76H-015			3		CFH	96	96	96
	RELIEF VALVE	FB-1 MILD			A4 J	N/A	N/A	4		YES			
								5			S	H	3

SELECT : 04EMECH

SELECT :

SORT : 01

TITLE : MECHANICAL EQUIP.

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM REV DIV LOCATION SUPPORT ZONE M/H	SP NO 1 GE PURCH DWG MANUFACTURER MODEL EC-FT-CAT-ACC-RT	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1P57 F 0520A	SAFETY RELATED INSTRUMENT AIR SYSTEM INST. AIR TO ADS ACCM.-RELIEF 1 INCH X 1-1/2 INCH RELIEF VALVE	MECH IBE/05-599 LOCAL-LM FB-1 MILD	523 TARGET ROCK CORP. 76H-014 A4 J N/A N/A	1 2 3 4 5	* SP523-000*03 * A CFH NA NA NA YES S H 3
*1P57 F 0520B	SAFETY RELATED INSTRUMENT AIR SYSTEM INST. AIR TO ADS ACCM.-RELIEF 1 INCH X 1-1/2 INCH RELIEF VALVE	MECH AXE/08-620 LOCAL-LM AB-1 MILD	523 TARGET ROCK CORP. 76H-014 A4 J N/A N/A	1 2 3 4 5	* SP523-000*03 * A CFH NA NA NA YES S H 3
*1P57 F 0524A	SAFETY RELATED INSTRUMENT AIR SYSTEM 1 INCH CHECK VALVE	MECH C I/ -620 LOCAL-LM DW-1 HARSH	53101 DRESSER 5580W A1 C N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1P57 F 0524B	SAFETY RELATED INSTRUMENT AIR SYSTEM 1 INCH CHECK VALVE	MECH C I/ -620 LOCAL-LM DW-1 HARSH	53101 DRESSER 5580W A1 C N/A N/A	1 2 3 4 5	* SP531-001*02 * A AH NA NA NA YES S H 3
*1P86 F 0002	NITROGEN SUPPLY SYSTEM OUTBD. TEST ISO. PEN 117 PNEU 2 INCH GLOBE VALVES	MECH AXE/08-624 LOCAL-LM AB-1 MILD	53106 ROCKWELL 15014MPT2 A4 A N/A 8.00 SEC	1 2 3 4 5	* B YES S H 3
*1P86 F 0528	NITROGEN SUPPLY SYSTEM INBOARD ISO PEN P117 2 INCH CHECK VALVE	MECH C O/ -620 LOCAL-LM CT-3 HARSH H2	53101 DRESSER 7440W A1 J N/A N/A	1 2 3 4 5	* SP531-001*01 * A AH NA NA NA YES LATER S H 3

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT D NUMBER S	DESCRIPTIONS SERVICE (2) EQUIPMENT (2)	DIAGRAM LOCATION SUPPORT ZONE	REV M/H	DIV H2	SP NO EC-FT-CAT-ACC-RT	1 GE PURCH DWG MANUFACTURER MODEL N/A	5 0010 SEC	-ENVIRONMENTAL- 1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	-----SEISMIC----- SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*1R43 C 0001A	STANDBY DIESEL GENERATOR DIESEL ENGINE 9717BHP DIESEL ENG	MECH DGC/01-620 LOCAL-CF DG-1 MILD		D1	562	DELAVAL DSRV-16-4 A4 J	1 2 3 4 5	* A CAI 42 42 42 YES D1 3 S	
*1R43 C 0001B	STANDBY DIESEL GENERATOR DIESEL ENGINE 9717BHP DIESEL ENG	MECH DGB/01-620 LOCAL-CF DG-1 MILD		D2	562	DELAVAL DSRV-16-4 A4 J	1 2 3 4 5	* A CAI 42 42 42 YES D1 3 S	
*1R45 C 0001A	DIESEL GENERATOR FUEL OIL SYSTEM FUEL OIL TRANSFER PUMP STANDBY DIESEL FUEL OIL TRANSFER PUMP	MECH DGD/01-620 LOCAL-CF DG-1 MILD			507	GOULD PUMPS INC 3196 ST A4 J	1 2 3 4 5	* A AI 42 42 42 YES D1 3 S	
*1R45 C 0001B	DIESEL GENERATOR FUEL OIL SYSTEM FUEL OIL TRANSFER PUMP STANDBY DIESEL FUEL OIL TRANSFER PUMP	MECH DGB/01-620 LOCAL-CF DG-1 MILD			507	GOULD PUMPS INC 3196 ST A4 J	1 2 3 4 5	* A AI 42 42 42 YES D1 3 S	
*1R45 C 0001C	DIESEL GENERATOR FUEL OIL SYSTEM HPCS DIESEL FUEL OIL TRANSFER PUMP HPCS DIESEL FUEL OIL TRANSFER PUMP	MECH DGB/01-620 LOCAL-CF DG-1 MILD			507	GOULD PUMPS INC 3196 ST A4 J	1 2 3 4 5	* A AI 42 42 42 YES D1 3 S	
*1R45 C 0002A	DIESEL GENERATOR FUEL OIL SYSTEM FUEL OIL TRANSFER PUMP STANDBY DIESEL FUEL OIL TRANS BACKUP PMP	MECH DGD/01-620 LOCAL-CF DG-1 MILD			507	GOULD PUMPS INC 3196 ST A4 J	1 2 3 4 5	* A AI 42 42 42 YES D1 3 S	

P783505.63
 SELECT : 04EMECH
 SELECT :
 SORT : 01
 TITLE : MECHANICAL EQUIP.

EQUIPMENT QUALIFICATIONS
 QUALIFICATIONS REVIEW LIST
 AS OF 00651 06/28/84

C EQUIPMENT	DESCRIPTIONS	DIAGRAM	REV	DIV	SP NO	1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
D NUMBER	SERVICE (2)	LOCATION			MANUFACTURER		1-2 SUM-ENV/ENV QFD	SUM-SEI/SEI QFD
S	EQUIPMENT (2)	SUPPORT	ELEV	MODEL			3-4 M-LF-MI/OPC-SEAL	M-LNF FB-SS-V/OP D
		ZONE	M/H	H2	EC-FT-CAT-ACC-RT		5 ART DEMO-H2 DEMO	RRS-DP-LDS S-O-R
*1R45 F 0579B	DIESEL GENERATOR FUEL OIL SYSTEM	MECH			53106		1	* SP531-006-00 *
	VACUUM BREAKER	DG /	-620		ROCKWELL		2	A
	3/4 INCH CHECK VALVE	LOCAL-LM			838YT3		3	AH NA NA NA
		DG-1 MILD			A4 J	N/A	N/A	4 YES
							5	S 3
*1R46 C 0004A	DIESEL GEN JACKET WATER COOLING	MECH		D1	562		1	* SP562-000-04 *
	JACKET WATER COOLING PUMP	DGD/O1-620			DELAVAL		2	A
	DG JACKET WATER	1R43 C 0001A			1A-6110		3	TA NA NA NA
	ENG DRVN COOLING PMP	DG-1 MILD			A4 J	N/A	N/A	4 YES
							5	D1 3 S
*1R46 C 0004B	DIESEL GEN JACKET WATER COOLING	MECH		D2	562		1	* SP562-000-04 *
	JACKET WATER COOLING PUMP	DGB/O1-620			DELAVAL		2	A
	DG JACKET WATER	1R43 C 0001B			1A-6110		3	TA NA NA NA
	ENG DRVN COOLING PMP	DG-1 MILD			A4 J	N/A	N/A	4 YES
							5	D1 3 S
*1R47 C 0003A	DIESEL GEN LUBE OIL SYSTEM	MECH		D1	562		1	* SP562-000-04 *
	LUBE OIL PUMP	DGC/O1-620			DELAVAL		2	A
	DIESEL GENERATOR	1R43 C 0001A			1A-2874		3	TA NA NA NA
	ENG DRV LUBE OIL PMP	DG-1 MILD			A4 J	N/A	N/A	4 YES
							5	D1 3 S
*1R47 C 0003B	DIESEL GEN LUBE OIL SYSTEM	MECH		D2	562		1	* SP562-000-04 *
	LUBE OIL PUMP	DGB/O1-620			DELAVAL		2	A
	DIESEL GENERATOR	1R43 C 0001B			1A-2874		3	TA NA NA NA
	ENG DRV LUBE OIL PMP	DG-1 MILD			A4 J	N/A	N/A	4 YES
							5	D1 3 S
*2B21 F 0100U	NUCLEAR BOILER SYSTEM	MECH			53104		1	* SP531-004*05 *
	RELIEF VALVE VACUUM BREAK	C I/O4-624			KEROTEST		2	A
	2 INCH CHECK VALVE	LOCAL-LM			D30616		3	AG 40 NA NA
		DW-2 HARSH	H2		A1 D	N/A	N/A	4 YES
							5	LATER S H 3

C EQUIPMENT D NUMBER S	DESCRIPTIONS	DIAGRAM REV DIV	SP NO 1 GE PURCH DWG	-ENVIRONMENTAL-	-----SEISMIC-----
	SERVICE (2) EQUIPMENT (2)	LOCATION SUPPORT ZONE M/H	MANUFACTURER MODEL EC-FT-CAT-ACC-RT	1-2 SUM-ENV/ENV QFD 3-4 M-LF-MI/OPD-SEAL 5 ART DEMO-H2 DEMO	SUM-SEI/SEI QFD M-LNF FB-SS-V/OP D RRS-DP-LDS S-O-R
*2B21 F 0100V	NUCLEAR BOILER SYSTEM RELIEF VALVE VACUUM BREAK 2 INCH CHECK VALVE	MECH C 0/07-624 LOCAL-LM CT-3 HARSH H2	53104 KEROTEST D30616 A1 D N/A N/A	1 2 3 4 5	* SP531-004*05 * A AG 40 NA NA YES LATER S H 3
*2E12 F 0037A 1	RESIDUAL HEAT REMOVAL SYSTEM RHR TO CONTAINMENT POOLS 12 INCH GLOBE VALVES	MECH C 0/01-664 LOCAL-LM CT-8 HARSH H2	52102 BORG WARNER 82350-1 A1 J N/A 90.0 SEC	1 2 3 4 5	* SP521-002*18 * A AH 54 54 NA YES LATER S H 3
*2E12 F 0037B 1	RESIDUAL HEAT REMOVAL SYSTEM RHR TO CONTAINMENT POOLS 12 INCH GLOBE VALVES	MECH C 0/17-670 LOCAL-LM CT-7 HARSH H2	52102 BORG WARNER 82350 A1 J N/A 62.0 SEC	1 2 3 4 5	* SP521-002*19 * A AH 55 55 NA YES LATER S H 3
*2E21 F 0005 1	LOW PRESSURE CORE SPRAY SYSTEM LPCS TO RPV PEN P112 OUTBOARD 12 INCH GATE VALVES	MECH AXH/07-620 LOCAL-LM AB-4 HARSH	52102 BORG WARNER 81220-3 A1 I N/A 25.9 SEC	1 2 3 4 5	* SP521-002*70 * A AH 75 75 NA YES S H 3
*2E22 F 0006 Y	HIGH PRESSURE CORE SPRAY SYSTEM WTR LEG PMP DISCH. ISO 1-1/2 INCH STOP CHECK VALVE	MECH AXH/08-574 LOCAL-LM AB-2 HARSH	53102 BORG WARNER 126EAB1-001 A1 J N/A N/A	1 2 3 4 5	* SP531-002*03 * A AH NA NA NA YES S 3
*2E51 F 0062 Y	REACTOR CORE ISOLATION COOLING WTR LEG PMP DISCH TO RCIC PMP 1-1/2 INCH STOP CHECK VALVE	MECH AXI/06-577 LOCAL-LM AB-3 HARSH	53102 BORG WARNER 126EAB1-001 A1 J N/A N/A	1 2 3 4 5	* SP531-002*03 * A AH NA NA NA YES S 3

