



Duquesne Light

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November 1, 1984

United States Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Mr. George W. Knighton, Chief
Licensing Branch 3
Office of Nuclear Reactor Regulation

SUBJECT: Beaver Valley Power Station - Unit No. 2
Docket No. 50-412
FSAR Separate Submittal for Environmental Qualification Report
Environmental Qualification of Safety Related Mechanical
Equipment

Gentlemen:

Submitted for your review at this time are six (6) copies of the updated Environmental Qualification Program for Safety Related Mechanical Equipment. This is part of the Equipment Qualification Report transmitted to you this past June (2NRC-4-08), dated June 22, 1984). This program has been performed by Duquesne Light Company (DLC) in response to FSAR Questions 270.2 and 270.3 identified in FSAR Amendment 4 (2NRC-3-096, dated December 2, 1983).

The program as revised contains the following information:

- 1) Qualification methodology utilized
- 2) Detailed master listing of equipment included
- 3) Qualification results

It is understood that several items will be chosen by the Equipment Qualification Branch for detailed review. Extensive back-up documentation and additional information is available in conjunction with the program and will be transmitted to you for those items selected.

The evaluation's results are now complete and DLC has initiated steps to qualify that equipment that has been identified as not having the ability to withstand the postulated environments. Equipment items with the EQ status code of "I" denoted on this master list are included in this category. This generally indicates that a particular type and/or model number is not well suited for a specific area (i.e., containment) as opposed to the item lacking any substantial qualification levels.

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A
PDR

All requests for additional information should be coordinated through
Mr. C. L. Hill who can be contacted at (412) 787-5141.

DUQUESNE LIGHT COMPANY

By E. J. Woolever
E. J. Woolever
Vice President

CLH/wjs
Attachment

cc: Mr. B. K. Singh, Project Manager (w/a)
Mr. G. Walton, NRC Resident Inspector (w/a)

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF ALLEGHENY)

On this 1st day of November, 1984, before me, a
Notary Public in and for said Commonwealth and County, personally appeared
E. J. Woolever, who being duly sworn, deposed and said that (1) he is Vice
President of Duquesne Light, (2) he is duly authorized to execute and file
the foregoing Submittal on behalf of said Company, and (3) the statements
set forth in the Submittal are true and correct to the best of his knowledge.

Anita Elaine Reiter
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC
ROBINSON TOWNSHIP, ALLEGHENY COUNTY
MY COMMISSION EXPIRES OCTOBER 20, 1986

CLH/wjs
NR/NRC/EQ/SRME
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**DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT 2**

**ENVIRONMENTAL QUALIFICATION OF
MECHANICAL EQUIPMENT**

Impell Report No.: 02-1290-1242

Revision 0

October, 1984

Copy # 1

Duquesne Light Company has contracted Impell Corporation to perform this work scope. Personnel from DLC have participated extensively in this program during the initial, on-going and final stages of the program. DLC has reviewed this report and has found it acceptable for submittal to the NRC.

Curtis L. Hill

10-25-84

Curtis L. Hill
Sr. Project Eng.
DLC BV-2 Project Team

Date



IMPELL CORPORATION

NEW YORK REGIONAL OFFICEREPORT APPROVAL COVER SHEET

Client: Duquesne Light Company

Project: Beaver Valley, Unit 2

Job No.: 1290-005-1641

Report Title: Environmental Qualification of Mechanical Equipment

Report Number: 02-1290-1242 Rev. No.: 0

The work described in this Report was performed in accordance with the Impell Corporation Quality Assurance Program. The signatures below verify the accuracy of this Report and its compliance with applicable quality assurance requirements.

Prepared By: Newell K. Woodward Date: 10/16/84
Reviewed By: Sonia Yeeas Date: 10/16/84
Approved By: Gregory T. Rehman Date: 10/16/84
Concurrence By: B. J. Stettler Date: 10/16/84
Regional Quality Assurance Manager

REVISION RECORD

REV. NO.	PREPARED	REVIEWED	APPROVED	CONCURRENCE	APPROVAL DATE	REVISION

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Appendix A: Master List

Appendix B: Mechanical Equipment Qualification Worksheets

SUMMARY

This report provides a description of the methodology, assumptions, and results of a program to evaluate the environmental qualification of active safety-related mechanical equipment at Beaver Valley Power Station Unit 2.

Section 1.0 provides background information regarding the purpose and scope of the Mechanical Equipment Qualification (MEQ) Program.

Section 2.0 describes the criteria and methodology for selecting specific equipment to be included in this program. The resulting "Master List of Active Safety-Related Mechanical Equipment" is provided as Appendix A.

Section 3.0 describes the methodology and acceptance criteria for evaluating the qualification of the equipment and preparing the Mechanical Equipment Qualification (MEQ) Files. The "Mechanical Equipment Environmental Qualification Worksheets" contained in Appendix B summarize the results of this evaluation, and were extracted from the MEQ Files.

Section 4.0 summarizes the results of this program.

Section 5.0 contains a list of references cited in this report.

1.0 INTRODUCTION

The Nuclear Regulatory Commission requested in Requests for Additional Information 270.2, Section f (Reference 1) that Duquesne Light Company review and evaluate the environmental qualification of mechanical equipment to demonstrate compliance with General Design Criteria 4 of Appendix A to 10CFR Part 50. In order to demonstrate compliance, the NRC requested the following:

1. Identification of safety related mechanical equipment located in potentially harsh environments, including required operating times.
2. Identification of the environmental conditions to which the equipment could be exposed.
3. Identification of the nonmetallic subcomponents of this equipment.
4. Identification of nonmetallic material capabilities.
5. Evaluation of environmental effects on this equipment.

The Duquesne Light Company retained the Impell Corporation to perform this review and evaluation. This report presents the methodology, assumptions, and summary of results obtained by Impell in performing the Mechanical Equipment Qualification (MEQ) Program.

The equipment within the scope of this program is active safety-related mechanical equipment located in potentially harsh accident environments which could be required to mitigate either a Loss-Of-Coolant-Accident (LOCA), Main Steam Line Break (MSLB), or High Energy Line Break (HELB) outside containment.

Active mechanical equipment is defined as equipment which must perform a mechanical motion to accomplish its safety function.

The results of this program include a list of active safety-related mechanical equipment located in a harsh environment (Appendix A) and Mechanical Equipment Qualification (MEQ) Files (which include the Mechanical Equipment Environmental Qualification Worksheets provided as Appendix B). The MEQ Files and the Common Reference File, which contain the references cited for materials radiation and thermal capabilities, have been issued under separate cover.

2.0 MASTER LIST DEVELOPMENT

The identification of that equipment encompassed within the scope of the program was performed in 3 steps:

1. Identification of Safety-Related Systems that may contain mechanical equipment requiring environmental qualification.
2. Identification of active mechanical equipment contained in those systems which are located in a potentially harsh environment.
3. Completion of the Master List, including identification of manufacturer and model number.

2.1 Identification of Safety-Related Systems

A list of plant systems that may contain safety-related active mechanical equipment was compiled from the FSAR Table 3.11-1, Amendment 5. Table 3.11-1 was reviewed to identify all safety-related systems containing electrical equipment designated as performing a safety function during the mitigation of design basis accidents, and that will experience the resultant harsh environmental conditions. The resulting list of systems formed the basis for identification of the safety-related active mechanical equipment to be evaluated within the scope of this program. This list is enclosed as Table 2-1.

2.2 Identification of Active Mechanical Equipment

The identification of the equipment to be evaluated for inclusion in the Mechanical Equipment Master List was completed in the following manner.

Using the List of Safety-Related Systems identified in 2.1 above, document BV2-807, "Listing of Seismic and Dynamic Qualification Summary and Status of Safety-Related Equipment" (Reference 2), was reviewed to identify all equipment contained in these systems. The appropriate sections of BV2-807 were then removed and superimposed onto a checklist format to enable further evaluation for the inclusion or exclusion of this equipment on the Master List, as shown in Figure 2-1. Each item of equipment was then evaluated to determine if it was:

- Mechanical
- Active, and
- Located in a potentially harsh environment.

The following categories of mechanical equipment were not considered for inclusion on the Master List because they are considered to be passive or are not expected to perform an active accident mitigating function.

1. Structural seals
2. Piping (not including fittings and seals)
3. Pipe supports
4. Fire stops and seals
5. Terminal boxes, junction boxes, conduit and cable trays
6. Vent, drain and instrument root valves
7. Excess flow check valves (less than 1 inch in size)
8. Flexible hoses and rupture discs
9. Spool pieces & flanges

The following types of equipment were evaluated for inclusion on the Master List and were categorized as either active or passive in accordance with the following table.

<u>ACTIVE</u>	<u>PASSIVE</u>
Remotely Operated Valves	Vessels and Tanks
Remotely Operated Dampers	Strainers and Filters
Check Valves	Heat Exchangers
Pumps	
Centrifugal/Axial Fans	Manually Operated Valves
Safety Valves	Venturi or Orifice type flow elements
Unit Coolers	Thermal Relief Valves

Any equipment not included in the above listing was considered on a case-by-case basis.

All items of mechanical equipment determined to be "active" were then evaluated to determine if they are located in a potentially harsh environment. A potentially harsh environment is defined in terms of increased temperature, pressure, humidity, and radiation (resulting in a total integrated dose of greater than 10^3 rads), as well as chemical spray for equipment located inside the Reactor Containment. This evaluation was made by relating the location information in BV2-807 to document 2BVM-119, "Environmental Conditions for Equipment Qualification Requirements", (Reference 3), which is the environmental parameters document used in the Electrical Equipment Qualification Program.

All of the equipment satisfying the above criteria was then included in the Master List.

In addition, a list of safety-related snubbers and check valves was developed using specifications identified by the Duquesne Light Company. This equipment was also included in the Master List. The Master List format is provided as Figure 2-2.

2.3 Completion of Master List

The Master List was completed by determining the appropriate information necessary to identify each item of equipment and categorize the equipment into specific qualification files.

The manufacturer and model number of each item of equipment, as well as the Specification Number for which it was procured, was determined from BV2-807 (Reference 2). This information was then confirmed by examination of the individual specifications and vendor drawings.

The MEQ File numbers were assigned based on plant purchase specifications and the similarity of equipment manufacturers and model numbers.

The completed Master List consists of the following information:

Equipment I.D.

The identification/mark number for each item of equipment.

Equipment Type

The description of the equipment.

Manufacturer

The vendor or manufacturer that supplied the equipment.

Model Number

The manufacturer's identification of the equipment.

Location

The building and elevation where the equipment is installed.

EQ Status

The result of the qualification evaluation of each item of equipment.

MEQ File

The number assigned by Impell to evaluate similar components purchased under common specification.

Temperature Profile

The temperature profile reference figure or table for a component's location.

Pressure Profile

The pressure profile reference figure or table for a component's location.

Rad Zone

The radiation zone or table for a component's location.

Spec. Number

The specification/purchase order number by which the component was procured.

3.0 QUALIFICATION FILE PREPARATION

The qualification evaluation of the mechanical equipment within the scope of the program is documented in the Mechanical Equipment Qualification (MEQ) Files. These files present all data and analyses utilized to demonstrate that the subject equipment is capable of withstanding postulated environmental condition, in a clear, auditable format. These files also stipulate any special limitations, such as scheduled maintenance or refurbishment, required to maintain environmental qualification.

The scope of each MEQ File is a group of equipment which has been determined to be similar because they were procured under the same specification, made by the same manufacturer, and are of the same basic design and construction.

3.1 Selection of Environmental Parameters

Each MEQ File addressed one or more pieces of equipment that may be located in different plant areas. Therefore, in order to address this equipment as a group, all environmental profiles and radiation zones were evaluated and the most severe environment chosen, using Environmental Data from 2BVM-119 (Reference 3). Initially, each set of equipment was evaluated to the worst case environment independent of separate locations. If the equipment was found to not be capable of withstanding these worst case conditions, then each piece of equipment was evaluated separately to its specific environmental conditions. Equipment located in environments enveloped by the qualification values were considered "Qualified."

3.2 Qualification Evaluation

Each piece of equipment entered into the BVPS Unit 2 MEQ Program was evaluated to determine if it was capable of withstanding postulated environmental conditions. In order to perform this evaluation, the design specifications and non-metallic materials of construction for each piece of equipment was determined from vendor drawings, instruction manuals, and through direct communication with the manufacturer. This data was analyzed to determine if the equipment met the specific acceptance criteria discussed below.

a. Operability

All equipment within the scope of this program was conservatively qualified for the postulated post-accident duration of 401.5 days. Equipment was initially evaluated to determine if it could remain operable subsequent to exposure to accident conditions. If an assembly was found which could possibly fail due to accident conditions, the mode of failure was examined to determine if it would be detrimental to plant safety.

B. Temperature

Qualification for accident temperature conditions is obtained by comparison of the peak postulated accident temperature with equipment design specifications and the thermal capabilities of non-metallic components.

In order to evaluate non-metallic materials' capabilities, the maximum operating temperature and/or continuous service temperature of the material is determined, using references from Impell's Equipment Qualification library and Materials Data Base, correspondence with vendors, and published industry data.

C. Pressure

Qualification for accident pressure conditions was obtained by comparison of the peak postulated accident pressure to the equipment design specifications, vendor drawings, or vendor tests.

D. Humidity

Qualification for humidity conditions was evaluated by comparing postulated accident conditions to equipment design specifications. Equipment which carries fluid or air are assumed to be capable of withstanding 100% relative humidity as they are sealed assemblies by design.

E. Radiation

Radiation qualification was obtained by comparing the postulated 40-year-normal-plus accident dose to the radiation resistance of all non-metallic components contained in the device. The accident duration was assumed to be 401.5 days.

The radiation tolerance of materials by property was determined using references compiled in Impell's Equipment Qualification library, and through direct contact with the material manufacturer.

F. Chemical Spray

The effects of the Containment Building Spray solution on all potentially exposed materials were determined by a search of existing literature, the results of which are documented in Impell Calculation No. 1290-005-002.

3.3 Assembly of the MEQ Files

The qualification evaluation for each type of equipment is documented in the MEQ Files in the format described below:

1. Cover Sheet (Figure 3-1)
2. Record of Revisions
3. Table of Contents
4. Equipment List: This is the sort of the Master List applicable to this file.
5. Equipment Evaluation: This provides a qualitative discussion of the data and analysis utilized to determine the qualification status of the equipment. This section also provides the details of any special maintenance required to maintain the environmental qualification of the equipment.
6. Mechanical Equipment Environmental Qualification Worksheet (Figure 3-2): Provides a quantitative presentation of the postulated environment versus the qualified environment for the equipment.
7. Component Materials Evaluation Worksheet (Figure 3-3): This provides the materials list and the thermal and radiation capabilities of the non-metallic subcomponents.
8. Attachments: All pertinent vendor data used to perform this evaluation are provided as attachments to the MEQ File.

4.0 SUMMARY OF RESULTS

The qualification status of the individual Mechanical Equipment Qualification Files are summarized in Table 4-1.

The qualification status of individual items of equipment can be determined by examination of the Master List of Active Safety-Related Mechanical Equipment contained in Appendix A.

5.0 REFERENCES

1. Requests for Additional Information 270.2, Section (f).
2. Report No. BV2-807, the Master Listing of Seismic and Dynamic Qualification Summary and Status of Safety-Related Equipment, report date 12-23-83.
3. 2BVM-119, Environmental Conditions for Equipment Qualification Requirements, Revision 5, April 19, 1984.

TABLES

TABLE 2-1

LIST OF SAFETY-RELATED SYSTEMS

AUXILIARY STEAM SYSTEM

STEAM GENERATOR BLOWDOWN SYSTEM

PRIMARY COMPONENT COOLING WATER SYSTEM

CHEMICAL AND VOLUME CONTROL

CONTAINMENT VACUUM SYSTEM

AERATED DRAIN SYSTEM

EMERGENCY DIESEL GENERATOR SYSTEM

FUEL POOL COOLING SYSTEM

FIRE PROTECTION

AUXILIARY FEEDWATER SYSTEM

FEEDWATER SYSTEM

PRIMARY PLANT GAS SUPPLY

HYDROGEN CONTROL SYSTEM

HEAT TRACING SYSTEM

HEATING, VENTILATING, AIR CONDITIONING (Control Building)

HEATING, VENTILATING, AIR CONDITIONING (Diesel Generator Building)

HEATING, VENTILATING, AIR CONDITIONING (Auxiliary Building)

HEATING, VENTILATING, AIR CONDITIONING (Reactor Building)

SUPPLEMENTARY LEAK COLLECTION SYSTEM

HEATING, VENTILATION, AIR CONDITIONING (Screen Well and Pump House)

HEATING, VENTILATION, AIR CONDITIONING (Service Building)

TABLE 2-1 (Continued)

CONTAINMENT INSTRUMENT AIR SYSTEM

INFORMATION HANDLING

MAIN STEAM SYSTEM

STEAM VENTS

QUENCH SPRAY SYSTEM

REACTOR COOLANT SYSTEM

RESIDUAL HEAT REMOVAL SYSTEM

RECIRCULATION SPRAY SYSTEM

STEAM DRAINS SYSTEM

SAMPLING SYSTEM

SERVICE WATER SYSTEM

GASEOUS VENTS SYSTEM

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
MEQ FILE STATUS

MEQ FILE	EQUIPMENT DESCRIPTION	EQ STATUS	COMMENTS
001-01	Kerotest Check Valves	Qualified	None
001-02	Westinghouse Swing Check Valves	Qualified	None
001-03	Fisher Controls Plug Valves	Documentation in Review	Qualification Documentation is in review, status not yet determined.
001-04	ITT Grinnell Diaphragm Valves	Qualified (Note 1)	Filter in pneumatic Filter/Regulator in Aux Bldg (Zone 21) not capable of withstanding postulated radiation condition.
001-05	Westinghouse Motor Operated Valves	Qualified	None
001-06	Velan Globe Valves	Qualified	None
001-07	Crosby Safety and Relief Valves	Qualified (Note 1)	Valve in containment contains disc O-ring which is not capable of withstanding postulated radiation condition.
001-08	Copes-Vulcan Globe Valves	Qualified (Note 1)	One valves' components not capable of withstanding temperature, radiation, and chemical spray conditions.
001-09	Pacific Charging/Safety Injection Pumps	Incomplete	Oil system three-way valve and pneumatic controller components not capable of withstanding postulated radiation condition.

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
MEQ FILE STATUS

MEQ FILE	EQUIPMENT DESCRIPTION	EQ STATUS	COMMENTS
001-10	Goulds Low Head Safety Injection Pumps	Qualified	None
001-11	Garrett Power Operated Relief Valve	Qualified	None
001-12	Ingersoll-Rand RHR Pumps	Qualified	None
001-13	Posi-Seal Butterfly Valves	Qualified	None
001-14	Goulds Boric Acid Transfer Pumps	Qualified	None
010-01	Ingersoll-Rand Primary Component Cooling Water Pumps	Qualified	None
011-01	Goulds Fuel Pool Cooling Pumps	Qualified	None
015-01	Bingham-Williamette Recirculation Pumps	Qualified	None
020-01	Atwood-Morrill Check Valves	Qualified (Note 1)	Components in several valves not capable of withstanding postulated radiation condition.
022-01	TRW Mission Check Valves	Incomplete	Valve seal not capable of withstanding postulated radiation condition for valves in plant areas where total dose is greater than 1×10^7 rads.

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
MEQ FILE STATUS

MEQ FILE	EQUIPMENT DESCRIPTION	EQ STATUS	COMMENTS
22A-01	Dow Check Valves	Qualified (Note 1)	Valve seat not capable of withstanding postulated radiation condition for valves in plant areas where total dose is greater than 1×10^7 rads.
024-01	Bingham-Willamette Quench Pumps	Incomplete	Pump gasket not capable of withstanding postulated radiation condition.
044-01	Bergen-Paterson Hydraulic Snallas	Incomplete	Seals not capable of withstanding postulated radiation condition.
064-01	Pressure Check Valves	Qualified	None
64A-01	Vogt Check Valves	Qualified	None
067-01	Contromatics Ball Valves	Qualified	None
073-01	Walworth Check Valves	Qualified	None
73A-01	Velan Check Valves	Qualified	None
075-01	Velan Check Valves	Qualified	None
076-01	Henry Pratt Motor Operated Butterfly Valves	Qualified (Note 1)	Components in top and bottom bearings and seat in several valves not capable of withstanding postulated radiation condition.

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
MEQ FILE STATUS

MEQ FILE	EQUIPMENT DESCRIPTION	EQ STATUS	COMMENTS
76A-01	Posi-Seal Butterfly Valves	Qualified	None
077-01	Walworth Gate Valves	Qualified	None
82A-01	Anchor Darling Gate Valves	Qualified	None
091-01	Xomox Plug Valves	Qualified (Note 1)	Several valves contain components not capable of withstanding postulated temperatures and/or radiation conditions.
092-01	Borg-Warner Gate Valves	Qualified	None
135-01	Crane-Deming Quench Spray Chemical Injection Pumps	Qualified	None
150-01	Joy Fans	Electrical EQ Program	Entire assembly addressed within the scope of the Electrical E.Q. Program (File No. 2710.100.150.021A).
157-01	AWSCO Motor Operated Dampers	Qualified	None
162-01	Buffalo Forge Fans	Electrical EQ Program	Entire assembly addressed within the scope of the Electrical E.Q. Program (File No. 2610.130.162.037).
185-01	AWSCO Air & Motor Operated Dampers	Qualified	None

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
MEQ FILE STATUS

MEQ FILE	EQUIPMENT DESCRIPTION	EQ STATUS	COMMENTS
208-01	Bingham-Williamette Auxiliary Feed-water Pumps	Qualified	None
208-02	Terry Auxiliary Feedwater Pump Turbine	Documentation in Review	Materials of construction for govenor not yet received from vendor.
209A-01	Copes-Vulcan Globe Valves	Qualified	None
211-01	EPG/Gulf & Western Ball Valves (MSIV)	Qualified	None
225-01	Crosby Main Steam Safety Valves	Qualified	None
651-01	Masoneilan Globe Valves	Documentation in Review	Materials of construction not yet received from vendor.
653-01	Yarway Control Valves	Qualified	None
657-01	Dresser Safety and Relief Valves	Qualified	None
666A-01	Hammel Dahl/Conoflow Globe Valves	Qualified	None

NOTE 1: These files contain some equipment for which qualification is currently incomplete.

FIGURES

PAGE

FIGURE 2-1

REPORT NO. BV2-807

JOB NAME BVS-UNIT 2
UTILITY DUQUESNE LIGHT CO.

DOCKET NO. 50-912

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 12/23/83

ENGINEER: STONE & WEBSTER
HSSE SUPPLIER: WESTINGHOUSE

SYSTEM ASS - AUXILIARY STEAM - NUCLEAR - SYSTEM

EQUIPMENT ID	EQUIPMENT			LOCATION		Mechanical Component (Y/N)	Active (Y/N)	Harsh Environment (Y/N)	QUAL. (Y/N)				
	DESCRIPTION	MANUFACTURER	SPEC	BLDG ELEV LITE	QTY								
<hr/>													
SHEC EQUIPMENT													
AOV - AIR OPERATED VALVE													
ZASS-AOV130A	HI ENERGY LINE BREAK ISOL VLV	AB 00720. RRS REF- CODES-											
	IRI/HAIKO LHS 38-41911/EA-750	651 1											
ZASS-AOV130B	HI ENERGY LINE BREAK ISOL VLV	AB 00720. RRS REF- CODES-											
	IRI/HAIKO LHS 38-41911/EA-750	651 1											
SOV - SOLENOID VALVE													
ZASS-SOV130A	HI ENERGY LINE BREAK ISOL VLV	AB 00720. RRS REF- CODES-											
	ASCO/SOV HP8320	651 1											
ZASS-SOV1305	HI ENERGY LINE BREAK ISOL VLV	AB 00720. RRS REF- CODES-											
	ASCO/SOV HP8320	651 1											

Performed by:
Checked by:

Job No. 1290-005-1671
Calculation No. _____
Revision _____

FIGURE 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
INPELL INB NO. 12-0-005-161

DUNNESNE LIGHT COMPANY
BEAUFK VALLEY POWER STATION, UNIT NO. 2

KIN DATE: 9/13/84
PAGE 1

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY MEQ FILE					
EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURED MODEL NO.	LOCATION	EQ STATUS REQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE
*****	*****	*****	*****	*****	*****

FIGURE 3-1

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT NO. 2

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT

Mechanical Equipment Qualification File No.

Draft Revision

Specification No. 2BVS-

Prepared by _____ Date _____ Checked by _____ Date _____

Impell Approval _____ Date _____

DLCO Approval _____ Date _____

Impell Job No. 1290-005-1671

Impell Report No. 02-1290-1242
Revision 0

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

FIGURE 3-2

Prepared by: _____ Date: _____
Checked by: _____ Date: _____

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. _____

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-	Maximum Temperature (degrees F)					
EQUIPMENT TYPE:	Maximum Pressure (psig)					
MANUFACTURER:	Maximum Relative Humidity (%)					
MODEL NO.:	Containment Spray					
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)					
LOCATION:	40T.5 Day Accident Radiation Dose (Rads)					
RAD ZONE:						

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File _____, Rev. 0.

Impell Report No. 02-1290-1242
Revision 0

Page _____ of _____
Revision _____

FIGURE 3-3

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: _____ Date: _____

Checked by: _____ Date: _____

COMPONENT MATERIALS EVALUATION WORKSHEET

MEQ File No. _____

COMPONENT	MATERIAL	TEMPERATURE (°F)	REFERENCE	RADIATION (RADS)	REFERENCE

APPENDIX A

MASTER LIST OF ACTIVE SAFETY-RELATED MECHANICAL EQUIPMENT

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
INPEL JOB NO. 1290-005-1671

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

RUN DATE: 10/16/94
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MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2ASS*ADV130A	GLOBE VALVE	MASONEILAN 38-41911	AB 720	DR MEQ 651-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	PIPE TUNNEL	2BUS-651
2ASS*ADV130B	GLOBE VALVE	MASONEILAN 38-41911	AB 720	DR MEQ 651-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	PIPE TUNNEL	2BUS-651
2BDG*ADV100A1	GLOBE VALVE	MASONEILAN 38-41431	RB 721	DR MEQ 651-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BUS-651
2BDG*ADV100B1	GLOBE VALVE	MASONEILAN 38-41431	RV 725	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-651
2BDG*ADV100C1	GLOBE VALVE	MASONEILAN 38-41431	RB 721	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-651
2BDG*ADV101A1	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	OUTSIDE CRANE WALL	2BUS-651
2BDG*ADV101A2	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	OUTSIDE CRANE WALL	2BUS-651
2BDG*ADV101B1	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	INSIDE CRANE WALL	2BUS-651
2BDG*ADV101B2	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	INSIDE CRANE WALL	2BUS-651
2BDG*ADV101C1	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	OUTSIDE CRANE WALL	2BUS-651
2BDG*ADV101C2	GLOBE VALVE	MASONEILAN 38-41431	RC 723	DR MEQ 651-01	FIGURE TA FIGURE TB	OUTSIDE CRANE WALL	2BUS-651
2BDG*ADV102A1	GLOBE VALVE	MASONEILAN 38-40211	RC 742	DR MEQ 651-01	FIGURE TA FIGURE TB	INSIDE CRANE WALL	2BUS-651
2BDG*ADV102A2	GLOBE VALVE	MASONEILAN 38-40211	RC 742	DR MEQ 651-01	FIGURE TA FIGURE TB	INSIDE CRANE WALL	2BUS-651
2BDG*ADV102B1	GLOBE VALVE	MASONEILAN 38-40211	RC 743	DR MEQ 651-01	FIGURE TA FIGURE TB	CONTAINMENT	2BUS-651

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2BDG#ADV102B7	GLOBE VALVE	MASONEILAN 38-40211	RC 743	DR MEQ 651-01	FIGURE IA FIGURE IB	CONTAINMENT	2BUS-651
2BDG#ADV102C1	GLOBE VALVE	MASONEILAN 38-40211	RC 742	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2BDG#ADV102C7	GLOBE VALVE	MASONEILAN 38-40211	RC 742	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2BDG#ADV103A	GLOBE VALVE	MASONEILAN 48-21134	SB 742	DR MEQ 651-01	TABLE III TABLE IIII	TABLE IV	2BUS-651
2BDG#ADV103B	GLOBE VALVE	MASONEILAN 48-21134	SB 742	DR MEQ 651-01	TABLE III TABLE IIII	TABLE IV	2BUS-651
2CCP#ADV105	GLOBE VALVE	MASONEILAN 37-20771	RC 707	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP#ADV107A	GLOBE VALVE	MASONEILAN 48-41431	RC 721	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP#ADV107B	GLOBE VALVE	MASONEILAN 48-41431	RC 721	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP#ADV107C	GLOBE VALVE	MASONEILAN 38-40211	RC 721	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP#ADV111A	GLOBE VALVE	MASONEILAN 37-20771	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2CCP#ADV111B	GLOBE VALVE	MASONEILAN 37-20771	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2CCP#ADV111C	GLOBE VALVE	MASONEILAN 37-20771	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2CCP#ADV130	GLOBE VALVE	MASONEILAN 37-40411	AB 720	DR MEQ 651-01	FIGURE VIITTA FIGURE VIITIL	ZONE 76	2BUS-651
2CCP#ADV132	GLOBE VALVE	MASONEILAN 47-20211	AB 721	DR MEQ 651-01	FIGURE VIITTA FIGURE VIITIL	ZONE 76	2BUS-651

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
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MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CCP*ADV170	GLOBE VALVE	MASONEILAN 48-41431	RC 694	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP*ADV171	GLOBE VALVE	MASONEILAN 48-21134	RC 709	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP*ADV172	GLOBE VALVE	MASONEILAN 48-21134	RC 709	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP*ADV173	GLOBE VALVE	MASONEILAN 48-21134	RC 709	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP*ADV174	GLOBE VALVE	MASONEILAN 48-21134	RC 709	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2CCP*DCV100-1	GLOBE VALVE	COPES-VULCAN D-100 8" CLASS 150	AB 737	O MEQ 209A-1	FIGURE VIITIE FIGURE VIITIL	ZONE 77	2BUS-209A
2CCP*DCV100-2	GLOBE VALVE	COPES-VULCAN D-100 8" CLASS 150	AB 737	O MEQ 209A-1	FIGURE VIITIE FIGURE VIIIIL	ZONE 77	2BUS-209A
2CCP*DCV101A	BUTTERFLY VALVE	MASONEILAN 33-37310	AB 714	DR MEQ 651-01	FIGURE VIITA FIGURE VIITL	ZONE 75	2BUS-651
2CCP*DCV101B	BUTTERFLY VALVE	MASONEILAN 33-37310	AB 714	DR MEQ 651-01	FIGURE VIITA FIGURE VIIIIL	ZONE 76	2BUS-651
2CCP*DCV101C	BUTTERFLY VALVE	MASONEILAN 33-37310	AB 714	DR MEQ 651-01	FIGURE VIITA FIGURE VIITL	ZONE 76	2BUS-651
2CCP*LCV100A	GLOBE VALVE	MASONEILAN 48-20721	AB 776	DR MEQ 651-01	FIGURE VIITIX FIGURE VIITIM	ZONE 31	2BUS-651
2CCP*LCV100B	GLOBE VALVE	MASONEILAN 48-20721	AB 776	DR MEQ 651-01	FIGURE VIITIX FIGURE VIITIM	ZONE 31	2BUS-651
2CCP*MDV103A	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 719	O MEQ 76A-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-076A
2CCP*MDV103B	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 719	O MEQ 76A-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-076A

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CCP#MOV103C	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 719	Q MEQ 76A-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076A
2CCP#MOV112A	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 720	Q MEQ 76A-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076A
2CCP#MOV112B	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 720	Q MEQ 76A-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076A
2CCP#MOV114	BUTTERFLY VALVE	POSI-SEAL INT 2484	RC 710	Q MEQ 76A-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076A
2CCP#MOV118	BALL VALVE	CONTROMATICS 298-20-121	RB 774	G MEQ 067-01	TABLE III TABLE III	TABLE IV	2BVS-067
2CCP#MOV119	BALL VALVE	CONTROMATICS 298-20-121	RB 774	Q MEQ 067-01	TABLE III TABLE III	TABLE IV	2BVS-067
2CCP#MOV120	BALL VALVE	CONTROMATICS 298-20-121	RB 774	Q MEQ 067-01	TABLE III TABLE III	TABLE IV	2BVS-067
2CCP#MOV128A	BUTTERFLY VALVE	HENRY PRATT CO 1100-6"	AB 722	T MEQ 076-01	FIGURE VIITA FIGURE VITIL	ZONE 76	2BVS-076
2CCP#MOV128B	BUTTERFLY VALVE	HENRY PRATT CO 1100-6"	AB 722	T MEQ 076-01	FIGURE VIITA FIGURE VITII	ZONE 76	2BVS-076
2CCP#MOV150-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-18"	RB 730	T MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2CCP#MOV150-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-18"	RC 724	T MEQ 076-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076
2CCP#MOV151-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-18"	RB 725	T MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2CCP#MOV151-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-18"	RC 725	T MEQ 076-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-076
2CCP#MOV156-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-18"	RB 725	T MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CCP#MOV156-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-18"	RC 725	T MEQ 076-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-076
2CCP#MOV157-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-18"	RB 725	T MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-076
2CCP#MOV157-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-18"	RC 728	T MEQ 076-01	FIGURE IA FIGURE IR	OUTSIDE CRANE WALL	2BUS-076
2CCP#MOV173	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV175-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV175-2	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV176-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV176-2	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV177-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV177-2	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV178-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#MOV178-2	BUTTERFLY VALVE	HENRY PRATT CO 1100-10"	AB 722	T MEQ 076-01	FIGURE VI7IA FIGURE VI7IL	ZONE 76	2BUS-076
2CCP#P21A	COOLING WATER PUMP	INGERSOLL RAND 10X18AA	AB 735	O MEQ 010-01	FIGURE VI7IE FIGURE VI7IL	ZONE 77	2BUS-010
2CCP#P21B	COOLING WATER PUMP	INGERSOLL RAND 10X18AA	AB 736	O MEQ 010-01	FIGURE VI7IE FIGURE VI7IL	ZONE 77	2BUS-010

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CCP*P21C	COOLING WATER PUMP	INGERSOLL RAND 10X18AA	AB 736	Q MEQ 810-01	FIGURE VIITC FIGURE VIITL	ZONE 77	2BUS-010
2CCP*TCV100A	BUTTERFLY VALVE	MASONEILAN INTER INC 33-37410	AB 713	DR MEQ 651-01	FIGURE VIIIA FIGURE VIIIL	ZONE 76	2BUS-651
2CCP*TCV100B	BUTTERFLY VALVE	MASONEILAN INTER INC 33-37410	AB 713	DR MEQ 651-01	FIGURE VIIIA FIGURE VIIIL	ZONE 76	2BUS-651
2CCP*TCV100C	BUTTERFLY VALVE	MASONEILAN INTER INC 33-37410	AB 713	DR MEQ 651-01	FIGURE VIIIA FIGURE VIIIL	ZONE 76	2BUS-651
2CCP*TCV144	GLOBE VALVE	MASONEILAN 37-20721	AB 720	DR MEQ 651-01	NONE(220F MAX) FIGURE VIIIIC	ZONE 19	2BUS-651
2CHS*ADV102	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/001	AB 759	Q MEQ 666A-1	FIGURE VIITC FIGURE VIITL	ZONE 53	2BUS-666A
2CHS*ADV200A	CONTROL VALVE	FISHER CONTROLS 2-IA78HC	RC 729	T MEQ 001-03	FIGURE IA FIGURE TB	INSIDE CRANE WALL	2BUS-001
2CHS*ADV200B	CONTROL VALVE	FISHER CONTROLS 2-IA78RC	RC 729	T MEQ 001-03	FIGURE IA FIGURE TB	INSIDE CRANE WALL	2BUS-001
2CHS*ADV200C	CONTROL VALVE	FISHER CONTROLS 2-IA78RC	RC 729	T MEQ 001-03	FIGURE IA FIGURE TB	INSIDE CRANE WALL	2BUS-001
2CHS*ADV201	GLOBE VALVE	MASONEILAN 38-26571	AB 736	DR MEQ 651-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-651
2CHS*ADV203	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/003	AB 759	Q MEQ 666A-1	FIGURE VIITC FIGURE VIIIL	ZONE 53	2BUS-666A
2CHS*ADV204	CONTROL VALVE	FISHER CONTROLS 2-IA78RE	RD 724	T MEQ 001-03	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2CHS*ADV205	GLOBE VALVE	MASONEILAN 48-21134	AB 736	Q MEQ 651-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-651
2CHS*ADV8101	DIAPHRAGM VALVE	ITT GRINNELL 3/4-BW92R	AB 759	Q MEQ 001-04	FIGURE VIITC FIGURE VIIIL	ZONE 53	2BUS-001

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MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	ER STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
2CHS*FCV113B	DIAPHRAGM VALVE	ITT GRINNEIL 2-DA92R	AB 719	T MEQ 001-04	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*FCV114B	DIAPHRAGM VALVE	ITT GRINNEIL 2-DA92R	AB 719	T MEQ 001-04	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*FCV1160	GLOBE VALVE	MASONEILAN 48-21114	RB 724	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	TABLEAU GEN. AREA	2BVS-651
2CHS*LCV115B	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*LCV115C	GATE VALVE	WESTINGHOUSE 4-GM72FB	AB 712	Q MEQ 001-05	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*LCV115D	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*LCV115E	GATE VALVE	WESTINGHOUSE 4-GM72FB	AB 712	Q MEQ 001-05	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS*LCV460A	CONTROL VALVE	FISHER CONTROLS 2-TAB88KG	RC 712	T MEQ 001-03	FIGURE IA FIGURE ID	INSIDE CRANE WALL	2BVS-001
2CHS*LCV460B	CONTROL VALVE	FISHER CONTROLS 2-TAB88KG	RC 712	T MEQ 001-03	FIGURE IA FIGURE ID	INSIDE CRANE WALL	2BVS-001
2CHS*MOV100A	PLUG VALVE	XOMAX 1366 BW	AB 718	T MEQ 091-01	NONE(220F MAXIMUM) FIGURE VIIIL	ZONE 19	2BVS-091
2CHS*MOV100B	PLUG VALVE	XOMAX 1366 BW	AB 710	T MEQ 091-01	FIGURE VIITD FIGURE VIIIL	ZONE 72	2BVS-091
2CHS*MOV111	GATE VALVE	ANCHOR DARTING 2 1/2" -150	AB 713	Q MEQ 82A-01	FIGURE VIIC FIGURE VIIIL	ZONE 21	2BVS-42A
2CHS*MOV201	GLOBE VALVE	VELAN 2-TM887NH	RC 708	Q MEQ 001-06	FIGURE IA FIGURE ID	INSIDE CRANE WALL	2BVS-001
2CHS*MOV275A	GLOBE VALVE	VELAN 2-TM7AFN	AB 737	Q MEQ 001-06	FIGURE VIIIJ FIGURE VIIIL	ZONE 40	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	FQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CHS#MOV275B	GLOBE VALVE	VELAN 2-TM78FN	AB 737	Q MEQ 001-06	FIGURE VIITJ FIGURE VIITL	ZONE 41	2BUS-001
2CHS#MOV275C	GLOBE VALVE	VELAN 2-TM78FN	AB 737	Q MEQ 001-06	FIGURE VIITJ FIGURE VIITL	ZONE 40	2BUS-001
2CHS#MOV289	GATE VALVE	WESTINGHOUSE 3-GM78FN	RB 721	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2CHS#MOV308A	GLOBE VALVE	VELAN 2-TM78FN	RB 720	Q MEQ 001-06	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2CHS#MOV308B	GLOBE VALVE	VELAN 2-TM78FN	RB 720	Q MEQ 001-06	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2CHS#MOV308C	GLOBE VALVE	VELAN 2-TM78FN	RB 720	Q MEQ 001-06	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2CHS#MOV310	GATE VALVE	WESTINGHOUSE 3-GM8AFNH	RC 720	Q MEQ 001-05	FIGURE IA FIGURE TB	INSIDE CRANE WALL	2BUS-001
2CHS#MOV311	GLOBE VALVE	VELAN 2-TM8AFNH	RC 695	Q MEQ 001-06	FIGURE IA FIGURE TR	INSIDE CRANE WALL	2BUS-001
2CHS#MOV350	GLOBE VALVE	VELAN 2-TM78FN	AB 713	Q MEQ 001-06	FIGURE VIITJ FIGURE VIITL	ZONE 21	2BUS-001
2CHS#MOV373	GATE VALVE	WESTINGHOUSE 3-GM78FN	AB 711	Q MEQ 001-05	FIGURE VIITC FIGURE VIITL	ZONE 21	2BUS-001
2CHS#MOV378	GATE VALVE	WESTINGHOUSE 3-GM72FBH	RC 733	Q MEQ 001-05	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BUS-001
2CHS#MOV380A	GLOBE VALVE	VELAN 2-TM78FN	AB 736	Q MEQ 001-06	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-001
2CHS#MOV380B	GLOBE VALVE	VELAN 2-TM78FN	AB 735	Q MEQ 001-06	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-001
2CHS#MOV381	GATE VALVE	WESTINGHOUSE 3-GM72FB	RB 720	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001

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2CHS#MDV383A	GLOBE VALVE	VELAN 2-TM78FM	AB 738	Q MEQ 001-06	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-001
2CHS#MDV383B	GLOBE VALVE	VELAN 2-TM78FM	AB 738	Q MEQ 001-06	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-001
2CHS#MDV8130A	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#MDV8130B	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#MDV8131A	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VIIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS#MDV8131B	GATE VALVE	WESTINGHOUSE 8-GM72FB	AB 721	Q MEQ 001-05	FIGURE VIIIC FIGURE VIIIL	ZONE 21	2BVS-001
2CHS#MDV8132A	GATE VALVE	WESTINGHOUSE 4-GM78FM	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#MDV8132B	GATE VALVE	WESTINGHOUSE 4-GM78FM	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#MDV8133A	GATE VALVE	WESTINGHOUSE 4-GM78FM	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#MDV8133B	GATE VALVE	WESTINGHOUSE 4-GM78FM	AB 721	Q MEQ 001-05	FIGURE VITIC FIGURE VITIL	ZONE 21	2BVS-001
2CHS#P21A	CHARGING/SI PUMP	PACIFIC PUMP 2 1/2" RL TJ	AB 738	T MEQ 001-09	FIGURE VIIIJ FIGURE VIIIL	ZONE 39	2BVS-001
2CHS#P21B	CHARGING/SI PUMP	PACIFIC PUMP 2 1/2" RL TJ	AB 738	T MEQ 001-09	FIGURE VIIIJ FIGURE VIIIL	ZONE 41	2BVS-001
2CHS#P21C	CHARGING/SI PUMP	PACIFIC PUMP 2 1/2" RL TJ	AB 738	T MEQ 001-09	FIGURE VIIIJ FIGURE VIIIL	ZONE 40	2BVS-001
2CHS#P22A	PUMP	GOULD'S 3198MT	AB 756	Q MEQ 001-14	FIGURE VIIIC T "E" VIIIL	ZONE 47	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2CHS#P22B	PUMP	CORRODOS 3196MT	AB 756	Q MEQ 001-14	FIGURE VIIIIC FIGURE VIIIIL	ZONE 48	2BVS-001
2CHS#PCV116A	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/004	AB 759	Q MEQ 666A-1	FIGURE VIIIIC FIGURE VIIIIL	ZONE 78	2BVS-666A
2CHS#PCV116B	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/005	AB 759	Q MEQ 666A-1	FIGURE VIIIIC FIGURE VIIIIL	ZONE 53	2BVS-666A
2CHS#PCV117	CONTROL VALVE	FISHER CONTROLS 3/4-R452RDB	AB 757	Q MEQ 001-03	FIGURE VIIIIC FIGURE VIIIIL	ZONE 53	2BVS-001
2CHS#RV203	RELIEF VALVE	CROSBY VALVE & GAGE 2RV72JWB	RC 729	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2CHS#RV209	RELIEF VALVE	CROSBY VALVE & GAGE 2RV72JWB	AB 724	Q MEQ 001-07	NONE(220F MAXIMUM) FIGURE VIIIIL	ZONE 19	2BVS-001
2CHS#RV257	RELIEF VALVE	CROSBY VALVE & GAGE 3RV721NS	AB 765	Q MEQ 001-07	FIGURE VIIIIC FIGURE VIIIIL	ZONE 74	2BVS-001
2CHS#RV382A	RELIEF VALVE	CROSBY VALVE & GAGE 2RV72JWB	RC 720	Q MEQ 001-07	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-001
2CHS#RV382B	RELIEF VALVE	CROSBY VALVE & GAGE 2RV72JWB	AB 724	Q MEQ 001-07	NONE (142 F MAXIMUM) FIGURE VIIIIL	ZONE 20	2BVS-001
2CVS#ADV101A	GLOBE VALVE	MASONET/LAN 38-20571	RB 721	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CIRCLE	2BVS-651
2CVS#ADV101B	GLOBE VALVE	MASONET/LAN 38-20571	RB 721	DR MEQ 651-01	FIGURE X FIGURE X	SHIELDED CIRCLE	2BVS-651
2DAS#ADV100A	GLOBE VALVE	MASONET/LAN 38-20761	RC 724	DR MEQ 651-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-651
2DAS#ADV100B	GLOBE VALVE	MASONET/LAN 38-20761	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CIRCLE	2BVS-651
2DCS#ADV108A	GLOBE VALVE	MASONET/LAN 38-20761	RC 725	DR MEQ 651-01	FIGURE IA FIGURE TB	OUTSIDE CRANE WALL	2BVS-651

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2DG5*ADV10AB	GLOBE VALVE	MASONITE/LAN 38-20761	RR 724	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-651
2FNC*P21A	FUEL POOL CLG. PUMP	GOULDS 3196-MT	FB 730	Q MEQ 011-01	TABLE III TABLE III	TABLE IV	2BVS-011
2FNC*P21B	FUEL POOL CLG PUMP	GOULDS 3196-MT	FB /30	Q MEQ 011-01	TABLE III TABLE III	TABLE IV	2BVS-011
2FWE*FCV122	CONTROL VALVE	YARWHY 5302	SG 730	Q MEQ 653-01	TABLE III TABLE III	ZONE F	2BVS-653
2FWE*FCV123A	CONTROL VALVE	YARWHY 5302	SG 733	Q MEQ 653-01	TABLE III TABLE III	ZONE E	2BVS-653
2FWE*FCV123B	CONTROL VALVE	YARWHY 5302	SG 733	Q MEQ 653-01	TABLE III TABLE III	ZONE F	2BVS-653
2FWE*P22	HORIZ. PUMP	BINGHAM-WILLAMETTE MSD & STG TRB DRIVEN	SG 718	Q MEQ 208-01	TABLE III TABLE III	ZONE F	2BVS-208
2FWE*P23A	DBL. VOL. PUMP	BINGHAM-WILLAMETTE MSD & STG MTR DRIVEN	SG 718	Q MEQ 208-01	TABLE III TABLE III	ZONE F	2BVS-208
2FWE*P23B	DBL. VOL. PUMP	BINGHAM-WILLAMETTE MSD & STG MTR DRIVEN	SG 718	Q MEQ 208-01	TABLE III TABLE III	ZONE F	2BVS-208
2FWE*RV101	RELIEF VALVE	DRESSER 3-1914J-2	SG 724	Q MEH 657-01	TABLE III TABLE III	ZONE F	2BVS-657
2FWE*T22	TURBINE	TERRY 754	SG 718	DR MEQ 208-02	TABLE III TABLE III	ZONE F	2BVS-208
2FWS*FCV478	GLOBE VALVE	COPES-VULCAN 16FA3RG	MW 780	Q MEQ 001-08	FIGURE II FIGURE II	TABLE IV	2BVS-001
2FWS*FCV479	GLOBE VALVE	MASONITE/LAN 38-40037	SB 782	DR MEQ 651-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-651
2FWS*FCV488	GLOBE VALVE	COPES-VULCAN 16FA3RG	MW 780	Q MEQ 001-08	FIGURE II FIGURE II	TABLE IV	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	ER STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2FWS*FCV489	GLOBE VALVE	MASONEILAN 38-40037	MV 780	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BUS-651
2FWS*FCV489	GLOBE VALVE	MASONEILAN 38-40037	MV780	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BUS-651
2FWS*FCV498	GLOBE VALVE	COPES-VULCAN 16FA3RG	MV 780	Q MEQ 001-08	FIGURE II FIGURE II	TABLE IV	2BUS-001
2FWS*HYV157A	GATE VALVE	BORG-WARNER	MV 776	Q MEQ 092-01	FIGURE II FIGURE II	TABLE IV	2BUS-092
2FWS*HYV157B	GATE VALVE	BORG-WARNER	MV 776	Q MEQ 092-01	FIGURE II FIGURE II	TABLE IV	2BUS-092
2FWS*HYV157C	GATE VALVE	BORG-WARNER	MV 776	Q MEQ 092-01	FIGURE II FIGURE II	TABLE IV	2BUS-092
2GNS*ADV101-1	CONTROL VALVE	FISHER CONTROLS 1-TA7ARD	RB 719	T MEQ 001-03	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-001
2GNS*ADV101-2	CONTROL VALVE	FISHER CONTROLS 1-TA7ARD	RC 729	T MEQ 001-03	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-001
2GNS*PCV101A	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/008	AB 762	Q MEQ A66A-1	FIGURE VIIIG FIGURE VIIIG	ZONE 7A	2BUS-666A
2GNS*PCV101B	GLOBE VALVE	HAMMEL DAHL/CONOFLOW 77/3254/009	AB 762	Q MEQ A66A-1	FIGURE VIIIG FIGURE VIIIG	ZONE 7A	2BUS-666A
2HCS*ADV102	GLOBE VALVE	MASONEILAN 48-21134	AB 738	DR MEQ 651-01	FIGURE FIGURE	ZONE	2BUS-651
2HCS*MOV110A	PLUG VALVE	XOMOX 166 SW	SG 741	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091
2HCS*MOV110B	PLUG VALVE	XOMOX 166 SW	SG 741	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091
2HCS*MOV112A	PLUG VALVE	XOMOX 166 SW	SG 741	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT
SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2HCS*MOV112B	PLUG VALVE	XOMOX 166 SW	SG 741	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091
2HCS*MOV113A	BALL VALVE	CONTROMATICS 298-20-121	SG 741	Q MEQ 067-01	TABLE III TABLE III	ZONE B	2BUS-067
2HCS*MOV113B	BALL VALVE	CONTROMATICS 298-20-121	SG 741	Q MEQ 067-01	TABLE III TABLE III	ZONE B	2BUS-067
2HCS*MOV116	BALL VALVE	CONTROMATICS 298-20-121	SG 714	Q MEQ 067-01	TABLE III TABLE III	APPENDIX B	2BUS-067
2HCS*MOV117	BALL VALVE	CONTROMATICS 298-20-121	SG 718	Q MEQ 067-01	TABLE III TABLE III	APPENDIX B	2BUS-067
2HCS*MOV120A	PLUG VALVE	XOMOX 166 SW	SG 738	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091
2HCS*MOV120B	PLUG VALVE	XOMOX 166 SW	SG 738	Q MEQ 091-01	TABLE III TABLE III	ZONE B	2BUS-091
2HVC*ADD201A	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*ADD201B	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*ADD202A	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*ADD202B	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*ADD204A	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*ADD204B	AIR OPER. DAMPER	AWUCO DAAP-7402	AB 773	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-185
2HVC*FN265A	CENTRIFUGAL FAN	BUFFALO FORCE A60 BL	AB 774	E MEQ 162-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BUS-162

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
IMPELL JOB NO. 1290-005-1671

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

RUN DATE: 10/16/84
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MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2HVC#FN265B	CENTRIFUGAL FAN	BUFFALO FORCE 660 BL	AB 774	E MEQ 162-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-162
2HVC#FN266A	CENTRIFUGAL FAN	BUFFALO FORCE 660 BL	AB 774	E MEQ 162-01	TABLE VIIIX TABLE VIIIM	ZONE 79	2BVS-162
2HVC#FN266B	CENTRIFUGAL FAN	BUFFALO FORCE 660 BL	AB 774	E MEQ 162-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-162
2HVP#FN264A	VANE-AXIAL FAN	JOY 23-17-3500	AB 767	E MEQ 150-01	FIGURE VIIIG FIGURE VIIIL	ZONE 78	2BVS-150
2HVP#FN264B	VANE-AXIAL FAN	JOY 23-17-3500	AB 767	E MEQ 150-01	FIGURE VIIIG FIGURE VIIIL	ZONE 78	2BVS-150
2HVP#FN265A	VANE-AXIAL FAN	JOY 1A-14-1770	AB 756	E MEQ 150-01	FIGURE VIIIX FIGURE VIIIM	MCC AREA	2BVS-150
2HVP#FN265B	VANE-AXIAL FAN	JOY 1A-14-1770	AB 756	E MEQ 150-01	FIGURE VIIIX FIGURE VIIIM	MCC AREA	2BVS-150
2HVP#MOD21A	M.D. DAMPER	AWSCO DAAP-7402	AB 748	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 77	2BVS-185
2HVP#MOD21B	M.D. DAMPER	AWSCO DAAP-7402	AB 748	Q MEQ 185-01	FIGURE VIIIF FIGURE VIIIL	ZONE 77	2BVS-185
2HVP#MOD22A	M.D. DAMPER	AWSCO DAAP-7402	AB 793	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-185
2HVP#MOD22B	M.D. DAMPER	AWSCO DAAP-7402	AB 793	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-185
2HVP#MOD24A	M.D. DAMPER	AWSCO DAAP-7402	AB 793	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-185
2HVP#MOD24B	M.D. DAMPER	AWSCO DAAP-7402	AB 793	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-185
2HVP#MOD30A	M.D. DAMPER	AWSCO DAAP-7402	AB 789	Q MEQ 185-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-185

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2HVR#MOD30B	M.D. DAMPER	AWSCO DAAP-7402	AB 791	Q MEQ 185-01	FIGURE VIITK FIGURE VIITM	ZONE 80	2BUS-185
2HVR#FN201A	VANE-AXIAL FAN	JOY 66-30-1770/870	RC 693	E MEQ 150-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-150
2HVR#FN201B	VANE-AXIAL FAN	JOY 66-30-1770/870	RC 693	E MEQ 150-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-150
2HVR#FN201C	VANE-AXIAL FAN	JOY 66-30-1770/870	RC 693	E MEQ 150-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-150
2HVR#FN206A	VANE-AXIAL FAN	JOY 36-26-1770	MV 774	E MEQ 150-01	FIGURE II FIGURE II	TABLE IV	2BUS-150
2HVR#FN206B	VANE-AXIAL FAN	JOY 36-26-1770	MV 774	E MEQ 150-01	FIGURE II FIGURE II	TABLE IV	2BUS-150
2HVR#MOD201A	M.D. DAMPER	AWSCO DAAP-7402	MV 774	T MEQ 185-01	FIGURE II FIGURE II	TABLE IV	2BUS-185
2HVR#MOD201B	M.D. DAMPER	AWSCO DAAP-7402	MV 774	T MEQ 185-01	FIGURE II FIGURE II	TABLE IV	2BUS-185
2HVR#MOD202A	M.D. DAMPER	AWSCO DAAP-7402	MV 774	T MEQ 185-01	FIGURE II FIGURE II	TABLE IV	2BUS-185
2HVR#MOD202B	M.D. DAMPER	AWSCO DAAP-7402	MV 774	T MEQ 185-01	FIGURE II FIGURE II	TABLE IV	2BUS-185
2HVR#MOD21	M.D. DAMPER	AWSCO DAAP-7402	AB 792	O MEQ 185-01	FIGURE VIITK FIGURE VIITM	ZONE 79	2BUS-185
2HVR#MOD22	M.D. DAMPER	AWSCO DAAP-7402	AB 794	Q MEQ 185-01	FIGURE VIITK FIGURE VIITM	ZONE 80	2BUS-185
2HVR#MOD23A	BUTTERFLY VALVE	POSI SEAL INT 2144	RB 774	O MEQ 76A-01	TABLE III TABLE III	TABLE IV	2BUS-076A
2HVR#MOD23B	BUTTERFLY VALVE	POSI SEAL INT 2144	RC 776	Q MEQ 76A-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-076A

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2HVR#MOD25A	BUTTERFLY VALVE	POSI SEAL 2144	RB 775	Q MEQ-76A-01	TABLE TII TABLE III	TABLE TU	2BVS-076A
2HVR#MOD25B	BUTTERFLY VALVE	POSI-SEAL INT 2144	RC 776	Q MEQ 76A-01	FIGURE IA FIGURE IR	INTSIDE CRANE WALL	2BVS-076A
2HVR#MOD26A	M.D. DAMPER	AWSCO DAAP-7402	RB 728	Q MEQ 1A5-01	FIGURE X GEN. AREA FIGURE X	2 POSSIBLE ZONES	2BVS-1A5
2HVR#MOD26B	M.D. DAMPER	AWSCO DAAP-7402	RB 723	Q MEQ 1A5-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-1A5
2HVR#MOD27A	M.D. DAMPER	AWSCO DAAP-7402	RB 728	Q MEQ 1A5-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-1A5
2HVR#MOD27B	M.D. DAMPER	AWSCO DAAP-7402	RB 728	Q MEQ 1A5-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-1A5
2HVS#FH204A	CENTRIFUGAL FAN	BUFFALO FORCE 805-L39	AB 774	E MEQ 162-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-162
2HVS#FH204B	CENTRIFUGAL FAN	BUFFALO FORCE 805-L39	AB 777	E MEQ 162-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-162
2HVS#MOD201A	M.D. DAMPER	AWSCO DAAP-7402	AB 782	Q MEQ 1A5-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-1A5
2HVS#MOD201B	M.D. DAMPER	AWSCO DAAP-7402	AB 782	Q MEQ 1A5-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-1A5
2HVS#MOD202A	M.D. DAMPER	AWSCO DAAP-7402	AB 787	Q MEQ 1A5-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-1A5
2HVS#MOD202B	M.D. DAMPER	AWSCO DAAP-7402	AB 787	Q MEQ 1A5-01	FIGURE VIIIX FIGURE VIIIM	ZONE 79	2BVS-1A5
2HVS#MOD203A	M.D. DAMPER	AWSCO DAA-P-3274	AB 781	Q MEQ 157-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-157
2HVS#MOD203B	M.D. DAMPER	AWSCO DAA-P-3274	AB 778	Q MEQ 157-01	FIGURE VIIIX FIGURE VIIIM	ZONE 80	2BVS-157

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT
SORTED BY EQUIPMENT ID.

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	ER STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2HVS#MOD210A	M.D. DAMPER	AWSCO DAAP-7402	AB 7A7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD210B	M.D. DAMPER	AWSCO DAAP-7402	AB 7A7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD211A	M.D. DAMPER	AWSCO DAAP-7402	AB 7B7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD211B	M.D. DAMPER	AWSCO DAAP-7402	AB 7B7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD212A	M.D. DAMPER	AWSCO DAAP-7402	AB 7B7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD212B	M.D. DAMPER	AWSCO DAAP-7402	AB 7B7	Q MEP. 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD213A	M.D. DAMPER	AWSCO DAAP-7402	AB 7A7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD213B	M.D. DAMPER	AWSCO DAAP-7402	AB 7B7	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD218A	M.D. DAMPER	AWSCO DAAP-7402	AB 790	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVS#MOD218B	M.D. DAMPER	AWSCO DAAP-7402	AB 790	Q MEQ 185-01	FIGURE VIITX FIGURE VIIIM	ZONE 80	2BUS-185
2HVZ#FN216A	CENTRIFUGAL FAN	BUFFALO FORCE 445 RL	RB 774	E MEQ 162-01	TABLE III TABLE III	TABLE IV	2BUS-162
2HVZ#FN216B	CENTRIFUGAL FAN	BUFFALO FORCE 445 RL	RB 774	E MEQ 162-01	TABLE III TABLE III	TABLE IV	2BUS-162
2HVZ#FN261A	VANE-AXIAL FAN	JOY 54-36-1170	RB 787	E MEQ 150-01	TABLE III TABLE III	TABLE IV	2BUS-150
2HVZ#FN261B	VANE-AXIAL FAN	JOY 54-26-1170	RB 787	E MEQ 150-01	TABLE III TABLE III	TABLE IV	2BUS-150

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	KAD ZONE	SPEC NO.
2HVZ*FN262A	VANE-AXIAL FAN	JAY 54-26-1170	RB 787	E MEQ 150-01	TABLE III TABLE III	TABLE IV	2BVS-150
2HVZ*FN262B	VANE-AXIAL FAN	JAY 54-26-1170	RB 787	E MEQ 150-01	TABLE III TABLE III	TABLE IV	2BVS-150
2HVZ*MOD21A	M.O. DAMPER	AMVCO DAAP-7402	RB 781	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2HVZ*MOD21B	M.O. DAMPER	AMVCO DAAP-7402	RB 781	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2HVZ*MOD22A	M.O. DAMPER	AMVCO DAAP-7402	RB 784	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2HVZ*MOD22B	M.O. DAMPER	AMVCO DAAP-7402	RB 784	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2HVZ*MOD23A	M.O. DAMPER	AMVCO DAAP-7402	RB 784	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2HVZ*MOD23B	M.O. DAMPER	AMVCO DAAP-7402	RB 784	Q MEQ 185-01	TABLE III TABLE III	TABLE IV	2BVS-185
2IAC*MOV130	PLUG VALVE	XOMOX 166 BW	RB 732	Q MEQ 091-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-091
2IAC*MOV133	PLUG VALVE	XOMOX 166 BW	RC 693	T MEQ 091-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-091
2IAC*MOV134	PLUG VALVE	XOMOX 166 BW	RB 732	Q MEQ 091-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-091
2MSS*ADV102A	GLOBE VALVE	MASONNEILAN 48-207X1	MV 789	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BVS-651
2MSS*ADV102B	GLOBE VALVE	MASONNEILAN 48-207X1	MV 789	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BVS-651
2MSS*ADV102C	GLOBE VALVE	MASONNEILAN 48-207X1	MV 789	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BVS-651

ENVIRONMENTAL QUALIFICATION OF MECHANICAL EQUIPMENT
IMPELL JOB NO. 1290-005-1671

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

RUN DATE: 10/16/84
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MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	ER STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC. NO.
2MSS*HYV101A	BALL VALVE	EPC/GULF & WESTERN 24" BALL VALVE	MV 789	Q MEQ 211-01	FIGURE II FIGURE II	TABLE IV	2BUS-211
2MSS*HYV101B	BALL VALVE	EPC/GULF & WESTERN 24" BALL VALVE	MV 789	Q MEQ 211-01	FIGURE II FIGURE II	TABLE IV	2BUS-211
2MSS*HYV101C	BALL VALVE	EPC/GULF & WESTERN 24" BALL VALVE	MV 789	Q MEQ 211-01	FIGURE II FIGURE II	TABLE IV	2BUS-211
2MSS*SV101A	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV101B	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV101C	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV102A	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV102B	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV102C	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV103A	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV103B	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV103C	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV104A	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225
2MSS*SV104B	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MV 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BUS-225

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2MSS-SV104C	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MU 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BVS-225
2MSS-SV105A	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MU 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BVS-225
2MSS-SV105B	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MU 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BVS-225
2MSS-SV105C	SAFETY VALVE	CROSBY VALVE & GAGE HA65FM	MU 799	Q MEQ 225-01	FIGURE II FIGURE II	TABLE IV	2BVS-225
2QSS-MOV100A	GATE VALVE	ANCHOR DARLING 12" -150	SG 718	Q MEQ 82A-01	TABLE III TABLE III	ZONE F	2BVS-82A
2QSS-MOV100B	GATE VALVE	ANCHOR DARLING 12" -150	SG 718	Q MEQ 82A-01	TABLE III TABLE III	ZONE F	2BVS-82A]
2QSS-MOV101A	GATE VALVE	ANCHOR DARLING 10" -150	SG 735	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2QSS-MOV101B	GATE VALVE	ANCHOR DARLING 10" -150	SG 735	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2QSS-MOV102A	GATE VALVE	ANCHOR DARLING 6" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE F	2BVS-82A
2QSS-MOV102B	GATE VALVE	ANCHOR DARLING 6" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE F	2BVS-82A
2QSS-P21A	QUENCH PUMP	BINCHAM-WILLAMETTE 8X10X12 HS	SG 728	MEQ 024-01	TABLE III TABLE III	ZONE F	2BVS-024
2QSS-P21B	QUENCH PUMP	BINCHAM-WILLAMETTE 8X10X12 HS	SG 728	T MEQ 024-01	TABLE III TABLE III	ZONE F	2BVS-024
2QSS-P24A	ROTARY PUMP	CRANE-DEMING FIG. 1549, SIZE 3HF	SG 728	Q MEQ 135-01	TABLE III TABLE III	ZONE F	2BVS-135
2QSS-P24B	ROTARY PUMP	CRANE-DEMING FIG. 1549, SIZE 3HF	SG 728	Q MEQ 135-01	TABLE III TABLE III	ZONE F	2BVS-135

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2QSS#RV102A	RELIEF VALVE	DRESSER 1 1/2 -1970-2	SG 730	Q MEQ 657-01	TABLE IV TABLE IV	ZONE F	2BUS-657
2QSS#RV102B	RELIEF VALVE	DRESSER 1 1/2-1970-2	SG 730	Q MEQ 657-01	TABLE IV TABLE IV	ZONE F	2BUS-657
2RCS#AOV101	DIAPHRAGM VALVE	ITT GRINNELL 3/4-DA92R	RB 720	Q MEQ 001-04	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-001
2RCS#AOV519	DIAPHRAGM VALVE	ITT GRINNELL 3-DA92R	RB 720	Q MEQ 001-04	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-001
2RCS#AOV544	GLOBE VALVE	COPES-VULCAN 3/8-TA7ADL	RC 708	T MEQ 001-04	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV535	GATE VALVE	WESTINGHOUSE 3-GM88FNH	RC 784	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV536	GATE VALVE	WESTINGHOUSE 3-GM88FNH	RC 784	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV537	GATE VALVE	WESTINGHOUSE 3-GM88FNH	RC 784	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV556A	GLOBE VALVE	VELAN 2-TM88FNH	RC 724	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV556B	GLOBE VALVE	VELAN 2-TM88FNH	RC 724	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV556C	GLOBE VALVE	VELAN 2-TM88FNH	RC 724	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV557A	GLOBE VALVE	VELAN 2-TM88FNH	RC 717	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV557B	GLOBE VALVE	VELAN 2-TM88FNH	RC 717	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOV557C	GLOBE VALVE	VELAN 2-TM88FNH	RC 717	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL, NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2RCS#MOU585	GLOBE VALVE	COPES-VULCAN 8-AM88SBH	RC 739	Q MEQ 001-08	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU586	GLOBE VALVE	COPES-VULCAN 8-AM88SBH	RC 739	Q MEQ 001-08	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU587	GLOBE VALVE	COPES-VULCAN 8-AM88SBH	RC 739	Q MEQ 001-08	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU590	GATE VALVE	WESTINGHOUSE 1165E23	RC734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU591	GATE VALVE	WESTINGHOUSE 1165E25	RC 734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU592	GATE VALVE	WESTINGHOUSE 1165E23	RC 734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU593	GATE VALVE	WESTINGHOUSE 1165E25	RC 734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU594	GATE VALVE	WESTINGHOUSE 1165E23	RC 734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#MOU595	GATE VALVE	WESTINGHOUSE 1165E25	RC 734	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#PCV455C	POWER OPERATED RV	GARRETT 3-15BARSA	RC 784	Q MEQ 001-11	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#PCV455D	POWER OPERATED RV	GARRETT 3-15BARSA	RC 784	Q MEQ 001-11	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#PCV456	POWER OPERATED RV	GARRETT 3-15BARSA	RC 784	Q MEQ 001-11	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#RV551A	SAFETY RELIEF VALVE	CROSBY VALVE & GAGE 6KV88LSB	RC 784	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS#RV551B	SAFETY RELIEF VALVE	CROSBY VALVE & GAGE 6KV88LSB	RC 784	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2RCS-RV551C	SAFETY RELIEF VALVE	CROSBY VALVE & GAGE ARU88LSB	RC 784	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RCS-SN21A1	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A10	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A11	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A12	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A2	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A3	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A4	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A5	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A6	HYDRAULIC SHUBBER	BERGEN-PATERSON B6403G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A7	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A8	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21A9	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B1	HYDRAULIC SHUBBER	BERGEN-PATERSON B6503G	RC	T MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2RCS-SN21B10	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B11	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B12	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B13	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B14	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B15	HYDRAULIC SNUBBER	BERGEN-PATERSON B6403G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B16	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B17	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B18	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21B19	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C1	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C10	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C11	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
2RCS-SN21C12	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C2	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C3	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C4	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C5	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C6	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C7	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C8	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RCS-SN21C9	HYDRAULIC SNUBBER	BERGEN-PATERSON B6503G	RC	I MEQ 044-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
2RHS#FCV605A	BUTTERFLY VALVE	POSI-SEAL 8BA76R7A	RC 708	Q MEQ 001-13	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RHS#FCV605B	BUTTERFLY VALVE	POSI-SEAL 8BA76RZA	RC 708	Q MEQ 001-13	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RHS#MOV701A	GATE VALVE	WESTINGHOUSE 12-GM88SEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RHS#MOV701B	GATE VALVE	WESTINGHOUSE 12-GM88SEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2RHS#MOV702A	GATE VALVE	WESTINGHOUSE 12-GM88SEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2RHS*MOV702B	GATE VALVE	WESTINGHOUSE 12-CM8ASEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*MOV720A	GATE VALVE	WESTINGHOUSE 10-CM88SEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*MOV720B	GATE VALVE	WESTINGHOUSE 10-CM88SEH	RC 721	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*MOV750A	GLOBE VALVE	VELAN 2-TM78FNN	RC 721	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*MOV750B	GLOBE VALVE	VELAN 2-TM78FNN	RC 721	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*P21A	PUMP	INGERSOL 8 X 22 WOF	RC 708	Q MEQ 001-12	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*P21B	PUMP	INGERSOL 8 X 22 WOF	RC 708	Q MEQ 001-12	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*RV721A	RELIEF VALVE	CROSBY VALVE & GAGE 3RV761WB	RC 712	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RHS*RV721B	RELIEF VALVE	CROSBY VALVE & GAGE 3RV761WB	RC 712	Q MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2RSS*MOV154C	GATE VALVE	ANCHOR DARLING 6" -150	SG 749	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-02A
2RSS*MOV154D	GATE VALVE	ANCHOR DARLING 6" -150	SG 749	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-02A
2RSS*MOV155A	BUTTERFLY VALVE	HENRY PRATT CO N-MK II	SG 691	Q MEQ 076-01	TABLE III TABLE III	ZONE D	2BVS-076
2RSS*MOV155B	BUTTERFLY VALVE	HENRY PRATT CO N-MK II	SG 691	Q MEQ 076-01	TABLE III TABLE III	ZONE D	2BVS-076
2RSS*MOV155C	BUTTERFLY VALVE	HENRY PRATT CO N-MK II	SG 691	Q MEQ 076-01	TABLE III TABLE III	ZONE D	2BVS-076

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2RSS#MOV155D	BUTTERFLY VALVE	HENRY PRATT CO H-MK T1	SG 691	Q MEQ 076-01	TABLE III TABLE III	ZONE D	2BVS-076
2RSS#MOV156A	GATE VALVE	ANCHOR DARLING 12" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2RSS#MOV156B	GATE VALVE	ANCHOR DARLING 12" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2RSS#MOV156C	GATE VALVE	ANCHOR DARLING 12" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2RSS#MOV156D	GATE VALVE	ANCHOR DARLING 12" -150	SG 738	Q MEQ 82A-01	TABLE III TABLE III	ZONE D	2BVS-82A
2RSS#P21A	RECIRCULATION PUMP	BINGHAM-WILLAMETTE 10X12X1AB TYPE VCR	SG 735	Q MEQ 015-01	TABLE III TABLE III	ZONE D(APPENDIX B)	2BVS-015
2RSS#P21B	RECIRCULATION PUMP	BINGHAM-WILLAMETTE 10X12X1AB TYPE VCR	SG 735	Q MEQ 015-01	TABLE III TABLE III	ZONE D(APPENDIX B)	2BVS-015
2RSS#P21C	RECIRCULATION PUMP	BINGHAM-WILLAMETTE 10X12X1AB TYPE VCR	SG 735	Q MEQ 015-01	TABLE III TABLE III	ZONE D(APPENDIX B)	2BVS-015
2RSS#P21D	RECIRCULATION PUMP	BINGHAM-WILLAMETTE 10X12X1AB TYPE VCR	SG 735	Q MEQ 015-01	TABLE III TABLE III	ZONE D(APPENDIX B)	2BVS-015
2SIS#ADV889	CONTROL VALVE	FISHER CONTROLS 3/4-TA7ARD	SG 743	I MEQ 001-03	TABLE III TABLE III	ZONE D	2BVS-001
2SIS#MOV836	GATE VALVE	WESTINGHOUSE 3-GM78FN	RB 720	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-001
2SIS#MOV841	GATE VALVE	WESTINGHOUSE 3-GM78FN	AB 712	Q MEQ 001-05	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-001
2SIS#MOV842	GLOBE VALVE	VELAN 2-TM78FNH	RC 738	Q MEQ 001-06	FIGURE IA FIGURE TR	OUTSIDE CRANE WALL	2BVS-001
2SIS#MOV851A	GLOBE VALVE	VELAN 2-TM78FNH	RC 694	Q MEQ 001-06	FIGURE IA FIGURE TR	INSIDE CRANE WALL	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPFC NO.
2SIS#MOV851B	GLOBE VALVE	VELAN 2-TM78FNN	RC 695	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV851C	GLOBE VALVE	VELAN 2-TM78FNN	RC 694	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV852A	GLOBE VALVE	VELAN 2-TM78FNN	RC 694	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV852B	GLOBE VALVE	VELAN 2-TM78FNN	RC 694	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV852C	GLOBE VALVE	VELAN 2-TM78FNN	RC 694	Q MEQ 001-06	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV863A	GATE VALVE	WESTINGHOUSE 8-CM72FB	SG 732	Q MEQ 001-05	TABLE III TABLE III	ZONE E	2BVS-001
2SIS#MOV863B	GATE VALVE	WESTINGHOUSE 8-CM72FB	SG 728	Q MEQ 001-05	TABLE III TABLE III	ZONE E	2BVS-001
2SIS#MOV864A	GLOBE VALVE	VELAN 2-TM78FNN	SG 731	Q MEQ 001-06	TABLE III TABLE III	ZONE E	2BVS-001
2SIS#MOV864B	GLOBE VALVE	VELAN 2-TM78FNN	SG 731	Q MEQ 001-06	TABLE III TABLE III	ZONE E	2BVS-001
2SIS#MOV865A	GATE VALVE	WESTINGHOUSE 12-CM88FNN	RC 694	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV865B	GATE VALVE	WESTINGHOUSE 12-CM88FNN	RC 694	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV865C	GATE VALVE	WESTINGHOUSE 12-CM88FNN	RC 694	Q MEQ 001-05	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
2SIS#MOV867A	GATE VALVE	WESTINGHOUSE 3-CM78FM	AB 712	Q MEQ 001-05	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-001
2SIS#MOV867B	GATE VALVE	WESTINGHOUSE 3-CM78FM	AB 713	Q MEQ 001-05	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SIS#MOV867C	GATE VALVE	WESTINGHOUSE 3-GM78FN	RB 719	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	TABLE IV	2BUS-001
2SIS#MOV867D	GATE VALVE	WESTINGHOUSE 3-GM78FN	MV 722	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	TABLE IV	2BUS-001
2SIS#MOV869A	GATE VALVE	WESTINGHOUSE 3-GM78FN	RB 720	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2SIS#MOV869B	GATE VALVE	WESTINGHOUSE 3-GM78FN	RB 720	Q MEQ 001-05	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-001
2SIS#MOV8809A	GATE VALVE	WESTINGHOUSE 14-GM72FB	SG 721	Q MEQ 001-05	TABLE III TABLE III	ZONE F	2BUS-001
2SIS#MOV8809B	GATE VALVE	WESTINGHOUSE 14-GM72FB	SG 721	Q MEQ 001-05	TABLE III TABLE III	ZONE F	2BUS-001
2SIS#MOV8811A	GATE VALVE	WESTINGHOUSE 10-GM72FB	SG 728	Q MEQ 001-05	TABLE III TABLE III	ZONE E	2BUS-001
2SIS#MOV8811B	GATE VALVE	WESTINGHOUSE 10-GM72FB	SG 728	Q MEQ 001-05	TABLE III TABLE III	ZONE E	2BUS-001
2SIS#MOV8888A	GATE VALVE	WESTINGHOUSE 10-GM78FN	SG 737	Q MEQ 001-05	TABLE III TABLE III	ZONE D	2BUS-001
2SIS#MOV8888B	GATE VALVE	WESTINGHOUSE 10-GM78FN	SG 737	Q MEQ 001-05	TABLE III TABLE III	ZONE D	2BUS-001
2SIS#MOV8889	GATE VALVE	WESTINGHOUSE 10-GM78FN	SG 737	Q MEQ 001-05	TABLE III TABLE III	ZONE D	2BUS-001
2SIS#MOV8890A	GATE VALVE	WESTINGHOUSE 4-GM72FB	SG 721	Q MEQ 001-05	TABLE III TABLE III	ZONE F	2BUS-001
2SIS#MOV8890B	GATE VALVE	WESTINGHOUSE 4-GM72FB	SG 721	Q MEQ 001-05	TABLE III TABLE III	ZONE F	2BUS-001
2SIS#P21A	LHSI PUMP	GOULD'S PUMPS 34052	SG 720	Q MEQ 001-10	TABLE III TABLE III	ZONE F	2BUS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SIS*P21B	LHST PUMP	GOULDS PUMPS 34052	SG 720	Q MEQ 001-10	TABLE III TABLE III	ZONE F	2BUS-001
2SIS*RV858A	RELIEF VALVE	CROSBY VALVE & GAGE 1RV76DCS	RC 706	T MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2SIS*RV858B	RELIEF VALVE	CROSBY VALVE & GAGE 1RV76DCS	RC 706	T MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2SIS*RV858C	RELIEF VALVE	CROSBY VALVE & GAGE 1RV76DCS	RC 706	T MEQ 001-07	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
2SSR*AOV100A1	GLOBE VALVE	MASONETIAN 38-20571	RC 718	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SSR*AOV100A2	GLOBE VALVE	MASONETIAN 38-20571	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-651
2SSR*AOV101A	GLOBE VALVE	MASONETIAN 38-20571	RC 720	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2SSR*AOV101B	GLOBE VALVE	MASONETIAN 38-20571	RC 720	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2SSR*AOV101C	GLOBE VALVE	MASONETIAN 38-20571	RC 720	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2SSR*AOV102A1	GLOBE VALVE	MASONETIAN 38-20571	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SSR*AOV102A2	GLOBE VALVE	MASONETIAN 38-20571	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BUS-651
2SSR*AOV108	GLOBE VALVE	MASONETIAN 38-20571	RC 720	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-651
2SSR*AOV109A1	GLOBE VALVE	MASONETIAN 38-20571	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SSR*AOV109A2	GLOBE VALVE	MASONETIAN 38-20571	RB 722	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BUS-651

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SSR*AOV110	GLOBE VALVE	MASONEILAN 3A-20571	RC 783	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV112A1	GLOBE VALVE	MASONEILAN 3A-20571	RC 719	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-651
2SSR*AOV112A2	GLOBE VALVE	MASONEILAN 3A-20571	MU 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-651
2SSR*AOV113		MASONEILAN 3A-20571	RC 709	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV113B	GLOBE VALVE	MASONEILAN 3A-20571	RC 712	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV115A	GLOBE VALVE	MASONEILAN 3A-20571	RC 794	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV115B	GLOBE VALVE	MASONEILAN 3A-20571	RC 694	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV115C	GLOBE VALVE	MASONEILAN 3A-20571	RC 694	DR MEQ 651-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-651
2SSR*AOV116A	GLOBE VALVE	MASONEILAN 3A-20571	AB 737	DR MEQ 651-01	FIGURE VIIIJ FIGURE VIIIL	ZONE 40	2BVS-651
2SSR*AOV116B	GLOBE VALVE	MASONEILAN 3A-20571	AB 737	DR MEQ 651-01	FIGURE VIIJ FIGURE VIIIL	ZONE 40	2BVS-651
2SSR*AOV116C	GLOBE VALVE	MASONEILAN 3A-20571	AB 737	DR MEQ 651-01	FIGURE VIIJ FIGURE VIIIL	ZONE 41	2BVS-651
2SSR*AOV117A	GLOBE VALVE	MASONEILAN 3A-20571	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-651
2SSR*AOV117B	GLOBE VALVE	MASONEILAN 3A-20571	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-651
2SSR*AOV117C	GLOBE VALVE	MASONEILAN 3A-20571	RB 722	DR MEQ 651-01	FIGURE X SHIELDED FIGURE X	SHIELDED CUBICLE	2BVS-651

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SSR*AOV118A	GLOBE VALVE	MASONEILAN 38-20571	AB 720	DR MEQ 651-01	NONE(220F MAX) FIGURE VIIIIC	ZONE 19	2BUS-651
2SSR*AOV118B	GLOBE VALVE	MASONEILAN 38-20571	AB 757	DR MEQ 651-01	FIGURE VIIIIC FIGURE VIIIIC	ZONE 53	2BUS-651
2SSR*AOV118C	GLOBE VALVE	MASONEILAN 38-20571	AB 756	DR MEQ 651-01	FIGURE VIIIIC FIGURE VIIIIC	ZONE 53	2BUS-651
2SSR*AOV118D	GLOBE VALVE	MASONEILAN 38-20571	AB 712	DR MEQ 651-01	NONE(220F MAX) FIGURE VIIIIC	ZONE 54	2BUS-651
2SUS*PCV101A	GLOBE VALVE	COPES-VULCAN D-100 10" CLASS 600	MU 773	Q MEQ 209A-1	FIGURE II FIGURE II	TABLE IV	2BUS-209A
2SUS*PCV101B	GLOBE VALVE	COPES-VULCAN D-100 10" CLASS 600	MU 773	Q MEQ 209A-1	FIGURE II FIGURE II	TABLE IV	2BUS-209A
2SUS*PCV101C	GLOBE VALVE	COPES-VULCAN D-100 10" CLASS 600	MU 773	Q MEQ 209A-1	FIGURE II FIGURE II	TABLE IV	2BUS-209A
2SWS*AOV110A	BUTTERFLY VALVE	MASONEILAN 33-37310	RC 717	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SWS*AOV110B	BUTTERFLY VALVE	MASONEILAN 33-37310	RC 717	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SWS*AOV110C	BUTTERFLY VALVE	MASONEILAN 33-37310	RC 717	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BUS-651
2SWS*AOV114	BUTTERFLY VALVE	MASONEILAN 33-37410	RB 720	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-651
2SWS*FCV120A	GLOBE VALVE	MASONEILAN 47-21124	RB 774	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-651
2SWS*FCV120B	GLOBE VALVE	MASONEILAN 47-21124	MU 774	DR MEQ 651-01	FIGURE II FIGURE II	TABLE IV	2BUS-651
2SWS*MOV104A	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 723	Q MEQ 077-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-077

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SWS#MOV104B	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 723	Q MEQ 077-01	TABLE III TABLE III	ZONE E	2BUS-077
2SWS#MOV104C	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 723	Q MEQ 077-01	TABLE III TABLE III	ZONE E	2BUS-077
2SWS#MOV104D	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 723	Q MEQ 077-01	TABLE III TABLE III	ZONE E	2BUS-077
2SWS#MOV105A	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 753	Q MEQ 077-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-077
2SWS#MOV105B	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 753	Q MEQ 077-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-077
2SWS#MOV105C	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 753	Q MEQ 077-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-077
2SWS#MOV105D	GATE VALVE	WALWORTH CO 16"-N5202 WE	SG 753	Q MEQ 077-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-077
2SWS#MOV107A	BUTTERFLY VALVE	POSI-SEAL INT 2144	AB 730	Q MEQ 76A-01	FIGURE VIITA FIGURE VIIIL	ZONE 76	2BUS-076A
2SWS#MOV107B	BUTTERFLY VALVE	POSI-SEAL. INT 2144	AB 730	Q MEQ 76A-01	FIGURE VIITA FIGURE VIIIL	ZONE 76	2BUS-076A
2SWS#MOV107C	BUTTERFLY VALVE	POSI-SEAL. INT 2144	AB 730	Q MEQ 76A-01	FIGURE VIITA FIGURE VIIIL	ZONE 76	2BUS-076A
2SWS#MOV107D	BUTTERFLY VALVE	POSI-SEAL. INT 2144	AB 730	Q MEQ 76A-01	FIGURE VIITA FIGURE VIIIL	ZONE 76	2BUS-076A
2SWS#MOV148A	BUTTERFLY VALVE	POSI-SEAL. INT 2484	RB 720	Q MEQ 76A-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-076A
2SWS#MOV148B	BUTTERFLY VALVE	POSI-SEAL. INT 2484	RB 720	Q MEQ 76A-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BUS-076A
2SWS#MOV152-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-B"	RB 721	T MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BUS-076

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SWS-MOV152-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-8"	RC 725	I MEQ 076-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-076
2SWS-MOV153-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 725	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV153-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-8"	RC 725	I MEQ 076-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-076
2SWS-MOV154-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 721	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV154-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-8"	RC 725	I MEQ 076-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-076
2SWS-MOV155-1	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 724	I MEQ 076-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-076
2SWS-MOV155-2	BUTTERFLY VALVE	HENRY PRATT CO 1400-8"	RC 725	I MEQ 076-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-076
2SWS-MOV160	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 723	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV161	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 725	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV162	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 724	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV163	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 725	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV164	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 724	I MEQ 076-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-076
2SWS-MOV165	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 724	I MEQ 076-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-076
2SWS-MOV166	BUTTERFLY VALVE	HENRY PRATT CO 1100-8"	RB 722	I MEQ 076-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-076

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

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EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
2SWS*MOV167	BUTTERFLY VALVE	HENRY PRATT CO 1100-A"	RB 723	T MEQ 076-01	FSAR TABLE 3.11-1 FSAR TABLE 3.11-1	FSAR TABLE 3.11-1	2BVS-076
2VRS*ADV109A1	GLOBE VALVE	MASONEILAN 48-207X1	RB 721	DR MEQ 651-01	FIGURE X GEN. AREA FIGURE X	GENERAL AREA	2BVS-651
2VRS*ADV109A2	GLOBE VALVE	MASONEILAN 48-207X1	RC 727	DR MEQ 651-01	FIGURE IA FIGURE IB	OUTSIDE CRANE WALL	2BVS-651
NOTE 1	CHECK VALVE	CLLOW VCT015-X-2	RC(NOTE 2)	I MEQ 22A-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-022A
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-Y-2 2 1/2"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-B-2 4"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW150-X-2 10"	RC(NOTE 2)	I MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-AS-3 4"	RC(NOTE 2)	Q MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW090-A-2 4"	RC(NOTE 2)	Q MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW150-C-3 3"	RC(NOTE 2)	Q MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-Y-2 3"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	VACUUM BREAKER	ATWOOD-MORRILL UCW015-Y-2 10"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	VACUUM BREAKER	ATWOOD-MORRILL UCW015-Y-2 12"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW150-X-2 2 1/2"	RC(NOTE 2)	T MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW150-X-2 3"	RC(NOTE 2)	I MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW060-Y-2 2 1/2"	RC(NOTE 2)	I MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-B-2 2 1/2"	RC(NOTE 2)	I MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW060-A-2 16"	RC(NOTE 2)	Q MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW015-B-2 6"	RC(NOTE 2)	I MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	ATWOOD-MORRILL UCW060-AA-2 6"	RC(NOTE 2)	Q MEQ 020-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-020
NOTE 1	CHECK VALVE	KEROTEST 3/4-C58	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 3/4-C78	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 3/4-C88	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 3/4-C8A	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 1-C78	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 2-C58	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	KEROTEST 2-C78	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 3-C52	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPFC NO.
*****	*****	*****	*****	*****	*****	*****	*****
NOTE 1	CHECK VALVE	WESTINGHOUSE 3-C78	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 3-C88	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 4-C72	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 6-C88	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 8-C72	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 10-C72	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 10-C74	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 10-C78	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 12-C88	RC (NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	TRW MISSION VCI015-A-3 3"	RC(NOTE 2)	T MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCI015-A-3 4"	RC(NOTE 2)	T MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCI015-A-3 6"	RC(NOTE 2)	T MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCI015-A-3 8"	RC(NOTE 2)	T MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCI015-A-3 10"	RC(NOTE 2)	T MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
NOTE 1	CHECK VALVE	TRW MISSION VCT015-C-3 20"	RC(NOTE 2)	I MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCT015-C-3 24"	RC(NOTE 2)	I MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	TRW MISSION VCT015-C-3 30"	RC(NOTE 2)	I MEQ 022-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-022
NOTE 1	CHECK VALVE	VOGT VCS060-AZ-3 2"	RC(NOTE 2)	Q MEQ 064A-1	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-064A
NOTE 1	CHECK VALVE	DRESSER VCS060-A-2 2"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-064
NOTE 1	CHECK VALVE	DRESSER VCS060-A-3 2"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-064
NOTE 1	CHECK VALVE	DRESSER VCS060-B-3 3/4"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-064
NOTE 1	CHECK VALVE	WALWORTH VCW015-A-3 3"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VCW015-A-3 4"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VCW015-A-3 6"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VFW060-A-2 3"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VFW060-A-3 6"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VFW060-A-2 4"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073
NOTE 1	CHECK VALVE	WALWORTH VFW060-A-3 3"	RC(NOTE 2)	Q MEQ 073-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-073

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
NOTE 1	CHECK VALVE	VELAN VCW015-AZ-3 6"	RC(NOTE 2)	Q MEQ 73A-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-73A
NOTE 1	CHECK VALVE	VELAN VCW015-AZ-3 3"	RC(NOTE 2)	Q MEQ 73A-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-73A
NOTE 1	CHECK VALVE	VELAN VCW060-AZ-3 3"	RC(NOTE 2)	Q MEQ 73A-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-73A
NOTE 1	CHECK VALVE	VELAN VCS015-X-? 1"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	VELAN VCS015-X-2 2"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	VELAN VCS015-X-3 1/2"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	VELAN VCS015-X-3 1"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	VELAN VCS015-X-3 2"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	VELAN VCS015-X-3 1/2"	RC(NOTE 2)	Q MEQ 075-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-075
NOTE 1	CHECK VALVE	BENOTEST 2-CAB	RC(NOTE 2)	Q MEQ 001-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-001
NOTE 1	CHECK VALVE	DRESSER VCS060-A-3 3/4"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-064
NOTE 1	CHECK VALVE	DRESSER VCS060-A-3 1"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-064
NOTE 1	CHECK VALVE	DRESSER VCS060-B-3 1"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-064
NOTE 1	CHECK VALVE	DRESSER VCS060-A-3 1 1/2"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BVS-064

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

SORTED BY EQUIPMENT ID

EQUIPMENT ID	EQUIPMENT TYPE	MANUFACTURER MODEL NO.	LOCATION	EQ STATUS MEQ FILE	TEMPERATURE PROFILE PRESSURE PROFILE	RAD ZONE	SPEC NO.
*****	*****	*****	*****	*****	*****	*****	*****
NOTE 1	CHECK VALVE	DRESSER VCS060-B-3 2"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
NOTE 1	CHECK VALVE	DRESSER VCS150-C-3 2"	RC(NOTE 2)	Q MEQ 064-01	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-044
NOTE 1	CHECK VALVE	WESTINGHOUSE 3-C72	RC NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001
NOTE 1	CHECK VALVE	WESTINGHOUSE 3-C88A	RC(NOTE 2)	Q MEQ 001-02	FIGURE IA FIGURE IB	INSIDE CRANE WALL	2BUS-001

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION, UNIT NO. 2

MASTER LIST OF SAFETY-RELATED ACTIVE MECHANICAL EQUIPMENT

NOTES

1. The Mark (Equipment Identification) Number for this equipment is not used based on generic worst case environmental qualification.
2. Plant location was not specifically identified for this equipment. Therefore, the Reactor Containment is conservatively chosen to apply the worst case postulated environmental conditions for mechanical equipment qualification.
3. Environmental Qualification (EQ) Status Codes are defined as follows:

Q - Environmental Qualification has been satisfactorily addressed.

I - Environmental Qualification is incomplete.

DR - Qualification documentation is in review; qualification status has not yet been determined.

E - Qualification of entire equipment assembly addressed within the Electrical Equipment Qualification Program.

APPENDIX B

MECHANICAL EQUIPMENT QUALIFICATION WORKSHEETS

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Haala Date: 7/6/84
Checked by: J. D. Haala Date: 7/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	Not Sensitive	2 (Section 2.1)	None
EQUIPMENT TYPE: Y-Type Check Valve	Maximum Pressure (psig)	45	1	1905	2 (Section 2.3)	None
MANUFACTURER: Kerotest	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: Various	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	Not Sensitive	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: E. J. Hasko Date: 9/6/84
Checked by: J. G. Res Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-02

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	1490	2 (Section 2.1)	None
EQUIPMENT TYPE: Swing Check Valve	Maximum Pressure (psig)	45	1	200	2 (Section 2.3)	None
MANUFACTURER: Westinghouse	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: Various	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Containment						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-02, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Serial Yards Date: 10-16-84
Checked by: LZL Date: 10-16-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-03

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	130	1	175	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	1.45	1	50	2 (Section 2.3)	None
MANUFACTURER: Fisher	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3/4-RA52RDB	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: Aux. Bldg. E1. 757	401.5 Day Accident Radiation Dose (Rads)	0	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: 53						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-03, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Yaneo Date: 10-16-84
Checked by: Bruh Date: 10-16-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-03

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	120	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	Slightly Negative	1	400	2 (Section 2.3)	None
MANUFACTURER: Fisher	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: 3/4-IA78RD	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Safeguards Area El. 743	401.5 Day Accident Radiation Dose (Rads)	2×10^7	1	5×10^6	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Zone D						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-03, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Yica, Date: 10-16-84
Checked by: Brown, Date: 10-16-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-03

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	203	2 (Section 2.1)	Yes 2 (Section 2.1)
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	45	1	400	2 (Section 2.3)	None
MANUFACTURER: Fisher	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2-IA78RG, 2-IA88RG, 1-IA78RD	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			Yes 2 (Section 2.2)
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	5×10^6	(Section 2.2)	
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-03, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Koenig Date: 10-16-84
Checked by: Zeb Date: 10-16-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-03

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	220	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	1.47	1	400	2 (Section 2.3)	None
MANUFACTURER: Fisher	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2-IA76RE	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^6	1			
LOCATION: Rod Control Area El. 724	401.5 Day Accident Radiation Dose (Rads)	1×10^8	1	5×10^6	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Shielded Cubicle						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-03, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Susan Yeanis Date 9/18/84
Checked by: Jeanie Tracy Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-04

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	204	1	225	2 (Section 2.1)	None
EQUIPMENT TYPE: Air Oper., High Press.	Maximum Pressure (psig)	1.45	1	50	2 (Section 2.3)	None
MANUFACTURER: ITT Grinnell	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2DA92R with Filter/Regulator	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^6	1			
LOCATION: Auxiliary Building	401.5 Day Accident Radiation Dose (Rads)	9×10^6	1	5×10^6	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Zone 21						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-04, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Maccio Date: 10-15-84
Checked by: T. Zahn Date: 10-15-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-04

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	180	1	225	2 (Section 2.1)	None
EQUIPMENT TYPE: Air Oper., High Press.	Maximum Pressure (psig)	1.47	1	50	2 (Section 2.3)	None
MANUFACTURER: ITT Grinnell	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3DA92R with Filter/Regulator	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1	5×10^6	2 (Section 2.2)	None
LOCATION: Rod Control Area	401.5 Day Accident Radiation Dose (Rads)	5×10^6	1			
RAD ZONE: General Area						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-04, Rev. 1.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Yosai Date: 10-15-84
Checked by: Zyber Date: 10-15-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-04

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	180	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Air Oper., High Press.	Maximum Pressure (psig)	1.47	1	50	2 (Section 2.3)	None
MANUFACTURER: ITT Grinnell	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3/4DA92R (Equip. ID 2RCS*AOV101) with Filter/Regulator	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Rod Control Area	401.5 Day Accident Radiation Dose (Pads)	5×10^6	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: General	Radiation Dose (Pads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-04, Rev. 1.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Ybarra Date: 9/1/84
Checked by: Date: 9/1/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-04

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	130	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Air Oper., High Press.	Maximum Pressure (psig)	1.45	1	50	2 (Section 2.3)	None
MANUFACTURER: ITT Grinnell	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3/4DA92R (Equip.ID 2CHS*AOV8101) with Filter/Regulator	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: Auxiliary Building	40T.5 Day Accident Radiation Dose (Rads)	0	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: Zone 53						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.

2. MEQ File 001-04, Rev. 0.

Duquesne Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: R. O'Farle Date 10-11-84
Checked by: Zach Date: 10-11-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-05

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	1200	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Gate Valve	Maximum Pressure (psig)	45	1	200	2 (Section 2.3)	None
MANUFACTURER: Westinghouse	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: Various	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-05, Rev. 1.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: F. Zuber Date: 10-11-84
Checked by: Sonia Yaser Date: 10-11-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-06

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	1200	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Globe Valves	Maximum Pressure (psig)	45	1	2500	2 (Section 2.3)	None
MANUFACTURER: Velan	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2TM88FNH, 2TM78FNH, 2TM78FN	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment RAD ZONE: Inside Crane Wall	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-06, Rev. 1.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Kenneth D. Morley Date: 9/1/84
Checked by: Frosty Date: 9/1/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-07

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	130	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Relief Valve	Maximum Pressure (psig)	1.45	1	75	2 (Section 2.3)	None
MANUFACTURER: Crosby	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3RV72LNS	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1.0×10^3	1			
LOCATION: AB765	401.5 Day Accident Radiation Dose (Rads)	1.0×10^6	1	1.0×10^7	2 (Section 2.2)	None
RAD ZONE: 78						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-07, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Kenneth D. Moody Date: 7/1/84
Checked by: John P. Reed Date: 9/1/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-07

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	Not Sensitive	2 (Section 2.1)	None
EQUIPMENT TYPE: Relief Valve	Maximum Pressure (psig)	45	1	75	2 (Section 2.3)	None
MANUFACTURER: Crosby	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2RV76JMB, 3RV76LWB, 2RV72JWB	Containment Spray	2000 ppm Boron: NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2.0×10^7	1			
LOCATION: Reactor Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	Not Sensitive	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.

2. MEQ File 001-07, Rev. 0.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: Kenneth D. Mandy Date: 9/1/84
 Checked by: J. G. R. Date: 9/1/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-07

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	1490	2 (Section 2.1)	None
EQUIPMENT TYPE: Relief Valve	Maximum Pressure (psig)	45	1	75	2 (Section 2.3)	None
MANUFACTURER: Crosby	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 6RV88LSB	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2.0×10^7	1			
LOCATION: Reactor Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 001-07, Rev. 0.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: Kenneth D. Morley Date: 7/12/84
 Checked by: Tom Puglisi Date: 9/15/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-07

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	369	2 (Section 2.1)	None
EQUIPMENT TYPE: Relief Valve	Maximum Pressure (psig)	45	1	75	2 (Section 2.3)	None
MANUFACTURER: Crosby	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: TRV76DGS	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	10-Year Normal Radiation Dose (Rads)	2.0×10^7	1			
LOCATION: RC706	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1.0×10^7	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 001-07, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: W.J. Tuckin Date: 10-2-84
Checked by: O. D. Park Date: 10-2-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-08

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	327	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Globe Valve and Air Actuator	Maximum Pressure (psig)	2.07	1	100	2 (Section 2.3)	None
MANUFACTURER: Copes-Vulcan, Inc.	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 16FA3RG (Valve) D100160 (Actuator)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Main Steam Valve House	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: Main Steam Valve House						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-08, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Neville L. Fulton D. 12/84
Checked by: R. D. Paole Date: 10-3-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-08

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	1200	2 (Section 2.1)	None
EQUIPMENT TYPE: Globe Valve	Maximum Pressure (psig)	45	1	2200	2 (Section 2.3)	None
MANUFACTURER: Copes-Vulcan, Inc.	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 8AM88SBH	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: RC	40T.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-08, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: L. Zwicker D.O.: 10/2/84
Checked by: J. D. Paola Date: 10-2-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-08

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	195	2 (Section 2.1)	Yes See Ref. 2 (Section 2.1)
EQUIPMENT TYPE: Globe Valve	Maximum Pressure (psig)	45	1	50	2 (Section 2.3)	None
MANUFACTURER: Copes-Vulcan, Inc.	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3/8-TA73DL	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	Unacceptable	2 (Section 2.5)	Yes See Ref. 2 (Section 2.5)
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: RC	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1.2×10^5	2 (Section 2.2)	Yes See Ref. 2 (Section 2.2)
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-08, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: John D'Amato Date 7/28/84
Checked by: J. Zinkin for KLM Date 09/28/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Charging SI Pump and Bearing	Maximum Pressure (psig)	1.45	1	2800 (Pump) 15 (Bearing)	2 (Section 2.3)	None
MANUFACTURER: Pacific (Pump), Kingsbury (Bearing)	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2-1/2 RG-1J (Pump), JHJ-7 (Bearing)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: AB736	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: Pump Cubicles 39, 40, 41						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. N. Paula Date: 7/26/84
Checked by: John Fortin D. M. O. Date: 09/28/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Charging SI Pump Shaft Seal	Maximum Pressure (psig)	1.45	1	20	2 (Section 2.3)	None
MANUFACTURER: Crane	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: IB-RS	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT						
LOCATION: AB736	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
RAD ZONE: Pump Cubicles 39, 40, 41	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^7	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J.O.Parker Date: 7-28-84
Checked by: Bruce Parker/Moody Date: 7-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT	QUALIFIED ENVIRONMENT	OUTSTANDING ITEMS	
		VALUE	REFERENCE	VALUE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	248 (Section 2.1)	None
EQUIPMENT TYPE: Gear Unit	Maximum Pressure (psig)	1.45	1	15 (Section 2.3)	None
MANUFACTURER: Westinghouse Gear Unit	Maximum Relative Humidity (%)	100	1	100 (Section 2.4)	None
MODEL NO.: SU-1023 8x5	Containment Spray	M/A	1	N/A (Section 2.5)	None
LIMITING ENVIRONMENT					
LOCATION: AB736	40-Year Normal Radiation Dose (Rads)	3×10^6	1		
RAD ZONE: Pump Cubicles 39, 40, 41	401.5 day Accident Radiation Dose (Rads)	7×10^6	1	1.9×10^7 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Paola Date: 26-04
Checked by: Bruce Park DM Date: 92884

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	250	2 (Section 2.1)	None
	Pressure (psig)	1.45	1	15	2 (Section 2.3)	None
EQUIPMENT TYPE: Oil Pump	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
MANUFACTURER: Brown & Sharpe Oil Pump						
MODEL NO.: 537						
LIMITING ENVIRONMENT						
LOCATION: AB736	40-Year Normal Radiation Dose (Rads)	3×10^6	1	1.5×10^7	2 (Section 2.2)	None
	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1			
RAD ZONE: Pump Cubicles 39, 40, 41						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Fasla Date: 10-20-84
Checked by: Brian P. KDM Date: 928-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT	QUALIFIED ENVIRONMENT	OUTSTANDING ITEMS
		VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	250 (Section 2.1) None
EQUIPMENT TYPE: Coupling	Maximum Pressure (psig)	1.45	1	1.45 (Section 2.3) None
MANUFACTURER: Zurn	Maximum Relative Humidity (%)	100	1	100 (Section 2.4) None
MODEL NOS.: F-102-1/2 S.B. FE-102-1/2 S.B.	Containment Spray	N/A	1	N/A (Section 2.5) None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1	
LOCATION: AB736	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1.5×10^7 (Section 2.2) None
RAD ZONE: Pump Cubicles 39, 40, 41				

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: F. N. Paula Date: 2/28/84
Checked by: Beth P. K. Mary Date: 2/28/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	550	² (Section 2.1)	None
EQUIPMENT TYPE: 3 Way Valve	Maximum Pressure (psig)	1.45	1	15	² (Section 2.3)	None
MANUFACTURER: ITT Hammel Dahl	Maximum Relative Humidity (%)	100	1	100	² (Section 2.4)	None
MODEL NO.: 831HGC32JAAC	Containment Spray	N/A	1	N/A	² (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: AB736	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	3.4×10^4	² (Section 2.2)	Yes ² (Section 2.2)
RAD ZONE: Pump Cubicles 39, 40, 41						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: W. A. Taylor Date: 11-10-04

Checked by: Bruce R. Moody Date: 9/28/81

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	180	2 (Section 2.1)	None
EQUIPMENT TYPE: 3 Way Valve Diaphragm Actuator	Maximum Pressure (psig)	1.45	1	3	2 (Section 2.3)	None
MANUFACTURER: Conoflow	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: A41ADB5AB6	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: AB736	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1.5×10^7	2 (Section 2.2)	None
RAD ZONE: Pump Cubicles 39, 40, 41						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: F. D. Parker Date: 7-28-84

Checked by: Beth Fortin Moore Date: 7-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET (CONTINUED)

MEQ File No. 001-09

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-001	Maximum Temperature (degrees F)	150	1	180	2 (Section 2.1)	None
EQUIPMENT TYPE: Pneumatic Controller	Maximum Pressure (psig)	1.45	1	3	2 (Section 2.3)	None
MANUFACTURER: Ametek	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 40	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: AB736	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	4×10^6	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Pump Cubicles 39, 40, 41						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-09, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Zunker

Date: 9-26-84

Checked by: W. Pasto

Date: 9-26-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-10

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-011	Maximum Temperature (degrees F)	120	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Centrifugal Pump	Maximum Pressure (psig)	Slightly Negative	1	240	2 (Section 2.3)	None
MANUFACTURER: Goulds	Maximum Relative Humidity (%)	90	1	100	2 (Section 2.4)	None
MODEL NO.: 3405L	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1.0×10^3	1			
LOCATION: SG718'-6"	401.5 Day Accident Radiation Dose (Rads)	1.0×10^6	1	4.0×10^6	2 (Section 2.2)	None
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-10, Rev. 0.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by:

Bark

Date: 09-06-84

Checked by:

Adrey

Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-11

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Power Operated Relief Valve	Maximum Pressure (psig)	45	1	2485	2 (Section 2.3)	None
MANUFACTURER: Garrett	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3-IS88RSA	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1.5×10^9	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 75-1, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Park Jr. K. M. Kelly Date: 9/26/84
Checked by: Tom Pro Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-12

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	369	2 (Section 2.1)	None
EQUIPMENT TYPE: Pump	Maximum Pressure (psig)	45	1	500	2 (Section 2.3)	None
MANUFACTURER: Ingersoll-Rand	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: C-BX20WOF500X15E	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10/5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2.0×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	3×10^7	1 (See Note 1)	5×10^7	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-12, Rev. 0.

NOTE: 1. Postulated accident dose does not include beta contribution of 1.5×10^8 rads.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: Sonia Garcia Date: 7/18/84
 Checked by: St. Pacey Date: 7/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-13

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	369	1	375	2 (Section 2.1)	None
EQUIPMENT TYPE: Butterfly Valve and Actuators	Maximum Pressure (psig)	45	1	80	2 (Section 2.3)	None
MANUFACTURER: Posi-Seal and Bettis	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 8-BA 76RZA (Valve) NCB-725-SR-80 (Actuat.)	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	2×10^8	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 001-13, Draft Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Bryant Date: 2684
Checked by: Ferry Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 001-14

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-001	Maximum Temperature (degrees F)	130	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Centrifugal Pump	Maximum Pressure (psig)	1.45	1	150	2 (Section 2.3)	None
MANUFACTURER: Goulds	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3196MT	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3.0×10^6	1			
LOCATION: AB 756	401.5 Day Accident Radiation Dose (Rads)	0	1	3×10^4	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: 47, 48						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 001-14, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Suzie Yow Date 7/2/84
Checked by: Mark Stark Date: 9-6-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 010-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-010	Maximum Temperature (degrees F)	130	1	160	2 (Section 2.1)	None
EQUIPMENT TYPE: Centrifugal Pump	Maximum Pressure (psig)	1.45	1	170	3 (Section 2.3.)	None
MANUFACTURER: Ingersoll-Rand	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 10X18AA	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: AB, E1. 736'	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	4.4×10^6	2 (Section 2.2)	None
RAD ZONE: 77						

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 010-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: T. Burton Date: 9-18-84
Checked by: S. Goy Date: 9/15/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 011-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-011	Maximum Temperature (degrees F)	150	1	203	2 (Section 2.1)	None
EQUIPMENT TYPE: Centrifugal Pump	Maximum Pressure (psig)	Slightly Negative	1	74	2 (Section 2.3)	None
MANUFACTURER: Goulds	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3196MT	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2.0×10^6	1			
LOCATION: FB 730	401.5 Day Accident Radiation Dose (Rads)	0	1	5.0×10^6	2 (Section 2.2)	None
RAD ZONE: C						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 011-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. O'Farla Date: 1/26/84
Checked by: K. R. Ry Date: 1/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 015-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-015	Maximum Temperature (degrees F)	120	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Recirculation Pump Assembly	Maximum Pressure (psig)	Slightly Negative	1	60	2 (Section 2.3)	None
MANUFACTURER: Bingham-Willamette	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: 10x12x18B Type VCR	Containment Spray	N/A	1	N/A	N/A	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1	At Least	2 (Section 2.2)	
LOCATION: SG 735'	401.5 Day Accident Radiation Dose (Rads)	5.2×10^7	1 (See Note 1)	5.2×10^7		None
RAD ZONE: D						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 015-01, Rev. 0.

NOTES: 1. The postulated accident radiation dose includes an accident dose of 2.2×10^6 rads (Reference 1, Appendix B) and the recirculating fluid dose of 5×10^7 rads.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

Phil Puls

Date: 2/28/84

Checked by:

T. R. S.

Date: 2/28/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 020-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT	QUALIFIED ENVIRONMENT	OUTSTANDING ITEMS	
		VALUE	REFERENCE	VALUE	
SPEC./P.O. NO.: 2BVS-020	Maximum Temperature (degrees F)	369	1	Not Sensitive (Section 2.1)	2 None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	1900	2 (Section 2.3) None
MANUFACTURER: Atwood & Morrill	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4) None
TAG NO.: VCW090-A-2 VCW150-C-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5) None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1	Not Sensitive (Section 2.2)	2 None
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1		
RAD ZONE: Inside Crane Wall					

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 020-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: S. D. Pash Date: 2/26/84
Checked by: Le Poer Date: 9/20/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 020-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-020	Maximum Temperature (degrees F)	369	1	1490	2 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	245	2 (Section 2.3)	None
MANUFACTURER: Atwood & Morrell	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
TAG NO.: VCW060-A-2 VCW060-AA-2 VCW015-AS-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 020-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: F. D. Paste Date: 26/04
Checked by: K. J. P. Date: 7/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 020-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-020	Maximum Temperature (degrees F)	369	1	369	3 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve.	Maximum Pressure (psig)	45	1	155	2 (Section 2.3)	None
MANUFACTURER: Atwood & Morrill	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
TAG NO.: Note 1	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: Containment (Except Radiation parameters)	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: Reference 3						

- References:
1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 020-01, Rev. 0.
 3. Values for Auxiliary Building Cubicles 13, 14, 34, 36, 39, 40, 41, which is maximum radiation parameter to qualify (See Ref. 2 Section 2.0)

NOTE: 1. VCW015-Y-2 (2-1/2", 10", 12"); VCW015-B-2 (4", 6"); VCW150-X-2

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Hale Date: 10/20/84
Checked by: John Date: 10/20/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 020-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-020	Maximum Temperature (degrees F)	369	1	400	3 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	155	2 (Section 2.3)	None
MANUFACTURER: Atwood & Morrill	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
TAG NO.: Note 1	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^7	2 (Section 2.2)	None

- References:
1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 020-01, Rev. 0.
 3. Values for Auxiliary Building Cubicles 13, 14, 34, 36, 39, 40, 41, which is maximum radiation parameters to qualify (See Ref. 2 Section 2.0)

NOTE: 1. VCW015-B-2 (2-1/2"); VCW015-Y-2 (3"); VCW060-Y-2

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: J. D. Parks Date: 9-18-84
 Checked by: Kenneth D. Moody Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 022-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-022	Maximum Temperature (degrees F)	369	1	369	3 (Section 2.1)	None
EQUIPMENT TYPE: Insert-Type Check Valve	Maximum Pressure (psig)	45	1	245	2 (Section 2.3)	None
MANUFACTURER: TRW-Mission	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCI-015-A-3 VCI-015-C-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT LOCATION: Containment (Except Radiation parameters)	40-Year Normal Radiation Dose (Rads)	3×10^6	1,2,3	1×10^7	2 (Section 2.2)	None
RAD ZONE: Reference 3	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1,2,3			

- References:
1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 022-01, Rev. 0.
 3. Values for Auxiliary Building Cubicles 13, 14, 32, 34, 36, 39, 40, 41, which is maximum radiation parameters to qualify (See Ref. 2 Section 2.0)

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: J. A. Pasha Date: 2/18/84
 Checked by: Kenneth D. Morley Date: 9/19/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 22A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-22A	Maximum Temperature (degrees F)	369	1	369	3 (Section 2.1)	None
	Maximum Pressure (psig)	45	1	175	2 (Section 2.3)	None
	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCI-015-X-2	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT LOCATION: Containment (Except Radiation parameters)	40-Year Normal Radiation Dose (Rads)	3×10^6	1,2,3			
RAD ZONE: Reference 3	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1,2,3	1×10^7	2 (Section 2.2)	None

- References:
1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 22A-01, Rev. A.
 3. Values for Auxiliary Building Cubicles 13, 14, 32, 34, 36, 39, 40, 41, which is maximum radiation parameters to qualify (See Ref. 2 Section 2.0)

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 024-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-024	Maximum Temperature (degrees F)	120	1	221	2 (Section 2.1)	None
EQUIPMENT TYPE: Pump Mechanical Seal	Maximum Pressure (psig)	Slightly Negative	1	143	2 (Section 2.3)	None
MANUFACTURER: Birmingham-Willamette (Pump) Durametallic (Seal)	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: 8 x 10 x 12 HS (Pump) PTO (Seal)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1	5×10^6	2 (Section 2.2)	Yes
LOCATION: SG728	401.5 Day Accident Radiation Dose (Rads)	5.1×10^7	1 (See Note 1)		2 (Section 2.2)	2 (Section 2.2)
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 024-01, Rev. 0.

NOTES: 1. Postulated accident radiation dose includes an accident dose of 1×10^6 rads (Reference 1) and the recirculating fluid dose of 5×10^7 rads.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: O.J. O'Reilly Date: 8/26/84
Checked by: J.R. Date: 8/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 024-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-024	Maximum Temperature (degrees F)	120	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Coupling	Maximum Pressure (psig)	Slightly Negative	1	0	2 (Section 2.3)	None
MANUFACTURER: Waldron	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: #2-1/2 HSW	Containment Spray	N/A	1	N/A	N/A	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG728	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 024-01, Rev. 0.

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 044-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-044	Maximum Temperature (degrees F)	369	1	At Least 369	2 (Section 2.1)	Yes (Section 2.1)
EQUIPMENT TYPE: Hydraulic Snubbing Cylinders	Maximum Pressure (psig)	45	1	100	2 (Section 2.3)	None
MANUFACTURER: Bergen Paterson	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: B6503G	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	3×10^7	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 044-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. Zink Date: 9/18/84
Checked by: Kenneth D. Moody Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 064-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-64	Maximum Temperature (degrees F)	369	1	1490	2 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	1265	2 (Section 2.3)	None
MANUFACTURER: Dresser	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCS-060-A-2, VCS-060-A-3, VCS-060-B-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	40T.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 064-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Zebulun Date: 9-18-84
Checked by: Kenneth D. Moody Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 064-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-64	Maximum Temperature (degrees F)	369	1	Not Sensitive	2 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	3170	2 (Section 2.3)	None
MANUFACTURER: Dresser	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCS-150-C-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1	Not Sensitive	2 (Section 2.2)	None
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1			
RAD ZONE: Inside Crane Wall	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 064-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

Y3abu

Date:

9/6/84

Checked by:

Kennell D. Morley

Date:

9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 64A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-64A	Maximum Temperature (degrees F)	369	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Check Valve	Maximum Pressure (psig)	45	1	1265	2 (Section 2.3)	None
MANUFACTURER: Vogt	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCS060-AZ-3	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	40T.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1.5×10^9	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 64A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. P. Sola Date 6/6/84
Checked by: S. T. E. R. Date: 6/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 067-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-067	Maximum Temperature (degrees F)	120	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Ball Valve	Maximum Pressure (psig)	Atmospheric	1	250	2 (Section 2.3)	None
MANUFACTURER: Contromatics	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 298-20-121	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 718' RB 774'	401.5 Day Accident Radiation Dose (Rads)	2.2×10^6	1	1×10^7	2 (Section 2.2.)	None
RAD ZONE: SG (App.B)						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April, 19, 1984.
2. MEQ File 067-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: D. J. Fada

Date: 9-6-84

Checked by: B. Gray

Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 073-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-073	Maximum Temperature (degrees F)	369	1	Not Sensitive	2 (Section 2.1)	None
EQUIPMENT TYPE: Swing Check Valve	Maximum Pressure (psig)	45	1	245	2 (Section 2.3)	None
MANUFACTURER: Walworth	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: Various	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	Not Sensitive	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 073-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sanya Yazzie

Date: 9/1/84

Checked by: John Ross

Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 73A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-73A	Maximum Temperature (degrees F)	369	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Swing Check Valve	Maximum Pressure (psig)	45	1	285	2 (Section 2.3)	None
MANUFACTURER: Velan	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: VCW015-AZ-3 VCW060-AZ-3	Containment Spray	2,000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2,000 Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION: RC	401.5 Day Accident Radiation Dose (Rads)	1.8×10^8	1	1.5×10^9	2 (Section 2.2)	None
RAD ZONE: Inside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.

2. MEQ File 73A-1, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: P. D. Fahey Date: 9-8-84
Checked by: S. G. Gray Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 075-01

EQUIPMENT DESCRIPTION		ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
SPEC./P.O. NO.:	2BVS-075	Maximum Temperature (degrees F)	369	1	1490	2 (Section 2.1)	None
EQUIPMENT TYPE:	Piston Check Valve	Maximum Pressure (psig)	45	1	880	2 (Section 2.3)	None
MANUFACTURER:	Velan	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.:	Various	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT		40-Year Normal Radiation Dose (Rads)	2×10^7	1			
LOCATION:	Containment	40T.5 Day Accident	1.8×10^8	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE:	Containment	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 075-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

Cecelia

Date: 9/26/84

Checked by:

KPR

Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 076-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-076	Maximum Temperature (degrees F)	164	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Butterfly Valve	Maximum Pressure (psig)	1.45	1	153	2 (Section 2.3)	None
MANUFACTURER: Henry Pratt	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 1100	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
<u>LIMITING ENVIRONMENT</u>						
LOCATION: Auxiliary Building	40-Year Normal Radiation Dose (Rads)	1×10^3	1			Yes
722'	401.5 Day Accident Radiation Dose (Rads)	1×10^7	1	1.2×10^5	2 (Section 2.2)	2 (Section 2.2)

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVN-119, Revision 5, April 19, 1984.
2. MEQ File 076-01, Rev. 0.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by: A. P. Robinson Date: 7/6/84
 Checked by: K. B. Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 076-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-076	Maximum Temperature (degrees F)	180	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Butterfly Valve	Maximum Pressure (psig)	1.47	1	153	2 (Section 2.3)	None
MANUFACTURER: Henry Pratt	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 1100	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: RB (Rod Control Area)	401.5 Day Accident Radiation Dose (Rads)	5×10^6	1	1.2×10^5	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: General Area						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1981.
 2. MEQ File 076-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

A. Bokunie

Date:

9/26/84

Checked by:

R. Ro

Date:

9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 076-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-076	Maximum Temperature (degrees F)	120	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Butterfly Valves	Maximum Pressure (psig)	Slightly Negative	1	45	2 (Section 2.3)	None
MANUFACTURER: Henry Pratt	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: N-MKII	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
<u>LIMITING ENVIRONMENT</u>						
LOCATION: SG 691'	40-Year Normal Radiation Dose (Rads)	1×10^3	1	2×10^7	2 (Section 2.2)	None
RAD ZONE: D	401.5 Day Accident Radiation Dose (Rads)	2×10^7	1			

- References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 076-01, Rev. 0.

Duquesne Light Company
 Beaver Valley Power Station, Unit No. 2
 Impell Job No. 1290-005-1671

Prepared by:

Ole Pihl

Date: 1/26/84

Checked by:

Perry

Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 076-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-076	Maximum Temperature (degrees F)	369	1	At Least 369	2 (Section 2.1)	None
EQUIPMENT TYPE: Motor Operated Butterfly Valves	Maximum Pressure (psig)	45	1	153	2 (Section 2.3)	None
MANUFACTURER: Henry Pratt	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 1400	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	4×10^4	1			
LOCATION: Reactor Containment	401.5 Day Accident Radiation Dose (Rads)	2×10^8	1	2×10^7	2 (Section 2.2)	Yes 2 (Section 2.2)
RAD ZONE: Outside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.

2. MEQ File 076-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

J. Shultz

Date:

7-10-84

Checked by:

A. Ray

Date:

9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 76A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-76A	Maximum Temperature (degrees F)	164	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Butterfly Valve	Maximum Pressure (psig)	1.45	1	153	2 (Section 2.3)	None
MANUFACTURER: Posi Seal International	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 2144	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: AB 730	401.5 Day Accident Radiation Dose (Rads)	1×10^7	1	2×10^7	2 (Section 2.2)	None
RAD ZONE: 76						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 76A-01, Rev. A.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. O'Farla Date: 6/10/84
Checked by: K. R. Date: 6/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 76A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT	QUALIFIED ENVIRONMENT	OUTSTANDING ITEMS	
		VALUE	REFERENCE	VALUE	
SPEC./P.O. NO.: 2BVS-76A	Maximum Temperature (degrees F)	369	1	369	2 (Section 2.1) None
EQUIPMENT TYPE: Butterfly Valve	Maximum Pressure (psig)	45	1	45	2 (Section 2.3) None
MANUFACTURER: Posi Seal International	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4) None
MODEL NO.: 2144, 2484	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5) None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1		
LOCATION: Reactor Containment	401.5 Day Accident Radiation Dose (Rads)	2×10^8	1	3×10^8	2 (Section 2.2) None
RAD ZONE: Outside Crane Wall	Radiation Dose (Rads)				

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 76A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. A. Park Date: 9/6/84
Checked by: Tom Dry Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 077-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-077	Maximum Temperature (degrees F)	120	1	1200	2 (Section 2.1)	None
EQUIPMENT TYPE: Gate Valve	Maximum Pressure (psig)	Slightly Negative	1	150	2 (Section 2.3)	None
MANUFACTURER: Walworth	Maximum Relative Humidity (%)	90	1	100	2 (Section 2.4)	None
MODEL NO.: 16"-N5202WE	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 718'-6"	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^{10}	2 (Section 2.2)	None
RAD ZONE: D						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 077-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: L. Zink Date: 9/6/84
Checked by: Kenneth D. Moody Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 82A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-82A	Maximum Temperature (degrees F)	204	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Gate Valve	Maximum Pressure (psig)	1.45	1	175	2 (Section 2.3)	None
MANUFACTURER: Anchor-Darling	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: Various	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
<u>LIMITING ENVIRONMENT</u>						
LOCATION: Aux. Bldg. Safeguards Building	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
RAD ZONE: SG Zone D	401.5 Day Accident Radiation Dose (Rads)	7×10^7 (see Note 1)	1	1.5×10^9	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 082A-01, Rev. 0.

Notes: 1. Postulated accident radiation dose includes 5×10^7 rad recirculating fluid dose.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Glass Date: 10-16-84
Checked by: Yzht Date: 10-16-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 091-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-091	Maximum Temperature (degrees F)	220	1	300	2 (Section 2.1)	None
EQUIPMENT TYPE: Plug Valve	Maximum Pressure (psig)	1.45	1	615	2 (Section 2.3)	None
MANUFACTURER: XOMOX (Atwood & Merrill)	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 1366 BW (XOMOX-7 Trim)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^6	1			
LOCATION: Aux. Bldg. 710', 718'	401.5 Day Accident Radiation Dose (Rads)	9×10^6	1	7×10^6	2 (Section 2.2)	Yes See Ref. 2 (Section 2.2)
RAD ZONE: 19, 72						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 091-01, Rev. 1.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Hasle Date: 10-18-84
Checked by: John Gay Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 091-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-091	Maximum Temperature (degrees F)	120	1	300	2 (Section 2.1)	None
EQUIPMENT TYPE: Plug Valve	Maximum Pressure (psig)	Slightly Negative	1	275	2 (Section 2.3)	None
MANUFACTURER: XOMOX (Atwood-Morrell)	Maximum Relative Humidity (%)	90	1	100	2 (Section 2.4)	None
MODEL NO.: 166-SW (XOMOX-7 Trim)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 741	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	7×10^6	2 (Section 2.2)	None
RAD ZONE: B						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 091-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. Sparks Date 9/18/84
Checked by: John P. Ray Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 091-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-091	Maximum Temperature (degrees F)	369	1	225	2 (Section 2.1)	Yes See Ref. 2 (Section 2.1)
EQUIPMENT TYPE: Plug Valve	Maximum Pressure (psig)	45	1	275	2 (Section 2.3)	None
MANUFACTURER: XOMOX (Atwood-Morrill)	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 166-BW (UHMWP Trim)	Containment Spray	2000 ppm Boron; NaOH pH = 8.5 - 10.5	1	2000 ppm Boron; NaOH pH = 8.5 - 10.5	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: Containment	401.5 Day Accident Radiation Dose (Rads)	2×10^8	1	1×10^8	2 (Section 2.2)	Yes See Ref. 2 (Section 2.2)
RAD ZONE: Outside Crane Wall						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 091-01, Rev. 0.

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 091-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BV-091	Maximum Temperature (degrees F)	180	1	225	2 (Section 2.1)	None
EQUIPMENT TYPE: Plug Valve	Maximum Pressure (psig)	1.47	1	275	2 (Section 2.3)	None
MANUFACTURER: XOMOX (Atwood-Morrill)	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 166-BW (UHMWP Trim)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: RB 732	401.5 Day Accident Radiation Dose (Rads)	5×10^6	1	1×10^8	2 (Section 2.2)	None
RAD ZONE: Gen Area						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
 2. MEQ File 091-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Paula Date: 10/18/84
Checked by: Tom Ry Date: 9/19/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 092-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-092-01	Maximum Temperature (degrees F)	327	1	1200	2 (Section 2.1)	None
EQUIPMENT TYPE: Gate Valve	Maximum Pressure (psig)	2.07	1	1600	2 (Section 2.3)	None
MANUFACTURER: Borg-Warner	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 435XAB5-001	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
<u>LIMITING ENVIRONMENT</u>						
LOCATION: MV776	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
RAD ZONE: Table IV	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1×10^{10}	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 092-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Ezra Date: 18-84
Checked by: Kenneth D. Worley Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 135-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-135	Maximum Temperature (degrees F)	120	1	176	2 (Section 2.1)	None
EQUIPMENT TYPE: Rotary Pump	Maximum Pressure (psig)	Slightly Negative	1	23	2 (Section 2.3)	None
MANUFACTURER: Crane-Deming	Maximum Relative Humidity (%)	90	1	100	2 (Section 2.4)	None
MODEL NO.: 1549 Size 3HF	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1.0×10^3	1			
LOCATION: SG 718'-6"	401.5 Day Accident Radiation Dose (Rads)	1.0×10^6	1	4.4×10^6	2 (Section 2.2)	None
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 135-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J N Park Date: 9-18-84
Checked by: Tommy Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 157-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-157-01	Maximum Temperature (degrees F)	125	1	300	2 (Section 2.1)	None
EQUIPMENT TYPE: Damper	Maximum Pressure (psig)	.59	1	Greater than .59	2 (Section 2.3)	None
MANUFACTURER: AWV	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: DAA-P-3274	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	4×10^4	1			
LOCATION: AB 780	401.5 Day Accident Radiation Dose (Rads)	1.6×10^5	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: 80						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 157-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonja Yester Date 9-28-84
Checked by: P. D. Faske Date: 9-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 185-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-185	Maximum Temperature (degrees F)	125	1	160	2 (Section 2.1)	None
EQUIPMENT TYPE: Damper (Air Operated)	Maximum Pressure (psig)	.59	1	4.33	2 (Section 2.3)	None
MANUFACTURER: American Warming & Ventilation	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: DAAP 7402 (Damper) 14130-1 (Actuation)	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Auxiliary Building 773	401.5 Day Accident Radiation Dose (Rads)	2×10^3	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: 79						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 185-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Yagan Date 7-28-84
Checked by: J. D. Paletta Date: 9-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 185-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-185	Maximum Temperature (degrees F)	180	1	248	2 (Section 2.1)	None
EQUIPMENT TYPE: Damper	Maximum Pressure (psig)	1.47	1	4.33	2 (Section 2.3)	None
MANUFACTURER: American Warming & Ventilation	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: DAAP 7402	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: RB 728	40T.5 Day Accident Radiation Dose (Rads)	5×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: General Area	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 185-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonia Yocca Date 10-22-84
Checked by: J.D.Parker Date: 9-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 185-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-185	Maximum Temperature (degrees F)	230	1	248	2 (Section 2.1)	None
EQUIPMENT TYPE: Damper	Maximum Pressure (psig)	1.45	1	4.33	2 (Section 2.3)	None
MANUFACTURE: American Warming & Ventilation	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: DAAP 7402	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Auxiliary Building 748	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: 77						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 185-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonja Yasen Date 12/28/84
Checked by: A. D. Pasha Date: 9-28-84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 185-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-185	Maximum Temperature (degrees F)	327	1	248	2 (Section 2.1)	Yes 2 (Section 2.1)
EQUIPMENT TYPE: Damper	Maximum Pressure (psig)	1.45	1	4.33	2 (Section 2.3)	None
MANUFACTURER: American Warming & Ventilation	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: DAAP 7402	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Main Steam Valve House	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: Main Steam Valve House	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 185-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. D. Farla Date: 9/26/84
Checked by: John J. Steepley Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 208-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-208	Maximum Temperature (degrees F)	120	1	180	2 (Section 2.1)	None
EQUIPMENT TYPE: Pump	Maximum Pressure (psig)	Slightly Negative	1	4000	2 (Section 2.3)	None
MANUFACTURER: Bingham-Willamette	Maximum Relative Humidity (%)	90	1	100	2 (Section 2.4)	None
MODEL NO.: 6 stage turbine driven and 8 stage motor driven	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 718'	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	4×10^6	2 (Section 2.2)	None
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 208-01, Rev. 0

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Sonya Yeece Date 2/21/87
Checked by: SC Gray Date: 2/6/87

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 209A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-209A	Maximum Temperature (degrees F)	130	1	300	2 (Section 2.1)	None
EQUIPMENT TYPE: Globe Valve	Maximum Pressure (psig)	1.45	1	150	2 (Section 2.3)	None
MANUFACTURER: Copes-Vulcan	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: D-100, 8"	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: AB 737	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1.0×10^7	2 (Section 2.2)	None
RAD ZONE: 77						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 209A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Suzanne Yazzie Date: 7/9/84
Checked by: Dee Reed Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 209A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-209A	Maximum Temperature (degrees F)	327	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: Globe Valve	Maximum Pressure (psig)	2.07	1	1110	2 (Section 2.3)	None
MANUFACTURER: Copes-Vulcan	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: D-100, 10"	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Main Steam Valve House	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1.5×10^9	2 (Section 2.2)	None
RAD ZONE: Main Steam Valve House	Radiation Dose (Rads)					

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 209A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. Zuber Date: 2/6/84
Checked by: Kenneth D. Moody Date: 2/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 211-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-211	Maximum Temperature (degrees F)	327	1	850	2 (Section 2.1)	None
EQUIPMENT TYPE: MSIV	Maximum Pressure (psig)	2.07	1	1100	2 (Section 2.3)	None
MANUFACTURER: EPG/Gulf and Western	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 24" Ball Valve	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: Main Steam Valve House	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	1.5×10^9	2 (Section 2.2)	None
RAD ZONE: Main Steam Valve House						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 211-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J.W.Harla

Date: 9/6/84

Checked by: Sir Poy

Date: 9/6/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 225-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-225	Maximum Temperature (degrees F)	327	1	350	2 (Section 2.1)	None
EQUIPMENT TYPE: Safety Valve	Maximum Pressure (psig)	2.07	1	1075	2 (Section 2.3)	None
MANUFACTURER: Crosby	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: HA65FN	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT						
LOCATION: Main Steam Valve House	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
RAD ZONE: Main Steam Valve House	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	3.4×10^4	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 225-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Serina Yaneis Date: 7/18/84
Checked by: Kenneth D. Hardy Date: 7/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 653-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-653	Maximum Temperature (degrees F)	120	1	325	2 (Section 2.1)	None
EQUIPMENT TYPE: Recirculation Control Valve	Maximum Pressure (psig)	Slightly Negative	1	1380	2 (Section 2.3)	None
MANUFACTURER: Yarway	Maximum Relative Humidity (%)	90	1	90	2 (Section 2.4)	None
MODEL NO.: 5302	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 733'	401.5 Day Accident Radiation Dose (Rads)	7×10^6	1	1×10^7	2 (Section 2.2)	None
RAD ZONE: E						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-1:9, Revision 5, April 19, 1984.
2. MEQ File 653-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by:

Checked by:

Date: 9/18/84

Date: 9/18/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 657-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-657	Maximum Temperature (degrees F)	120	1	Not Sensitive	2 (Section 2.1)	None
EQUIPMENT TYPE: Safety And Relief Valve	Maximum Pressure (psig)	Slightly Negative	1	2200	2 (Section 2.3)	None
MANUFACTURER: Dresser	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 3-1914J-2	Containment Spray	N/A	1	N/A	2 (Section 2.5)	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: SG 724'	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	Not Sensitive	2 (Section 2.2)	None
RAD ZONE: F						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 657-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: F. Burton Date: 6/84
Checked by: J. D. Ray Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 666A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-666A	Maximum Temperature (degrees F)	130	1	180	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve w/Airset	Maximum Pressure (psig)	1.45	1	15	2 (Section 2.3)	None
MANUFACTURER: Hammel Dahl Conoflow	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL Nos.: 77/3254/001, 003, 004 & FH60XT-KXG1 (Airset)	Containment Spray	N/A	N/A	N/A	N/A	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
LOCATION: AB759	401.5 Day Accident Radiation Dose (Rads)	0	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: 53, 78						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 666A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: J. Burke Date: 9/26/84
Checked by: H. Ray Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 666A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-666A	Maximum Temperature (degrees F)	130	1	250	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	1.45	1	15	2 (Section 2.3)	None
MANUFACTURER: Hammel Dahl Conoflow	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 77/3254/005	Containment Spray	N/A	N/A	N/A	N/A	None
LIMITING ENVIRONMENT						
LOCATION: AB759	40-Year Normal Radiation Dose (Rads)	3×10^6	1			
RAD ZONE: 53	401.5 Day Accident Radiation Dose (Rads)	0	1	5×10^6	2 (Section 2.2)	None

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 666A-01, Rev. 0.

Duquesne Light Company
Beaver Valley Power Station, Unit No. 2
Impell Job No. 1290-005-1671

Prepared by: Burke Date: 6/81
Checked by: Joe Br Date: 9/26/84

MECHANICAL EQUIPMENT ENVIRONMENTAL QUALIFICATION WORKSHEET

MEQ File No. 666A-01

EQUIPMENT DESCRIPTION	ENVIRONMENTAL PARAMETER	POSTULATED ENVIRONMENT		QUALIFIED ENVIRONMENT		OUTSTANDING ITEMS
		VALUE	REFERENCE	VALUE	REFERENCE	
SPEC./P.O. NO.: 2BVS-666A	Maximum Temperature (degrees F)	130	1	175	2 (Section 2.1)	None
EQUIPMENT TYPE: Control Valve	Maximum Pressure (psig)	1.45	1	15	2 (Section 2.3)	None
MANUFACTURER: Hammel Dahl Conoflow	Maximum Relative Humidity (%)	100	1	100	2 (Section 2.4)	None
MODEL NO.: 77/3254/008 & 009	Containment Spray	N/A	N/A	N/A	N/A	None
LIMITING ENVIRONMENT	40-Year Normal Radiation Dose (Rads)	1×10^3	1			
LOCATION: AB762	401.5 Day Accident Radiation Dose (Rads)	1×10^6	1	5×10^6	2 (Section 2.2)	None
RAD ZONE: 78						

References: 1. "Environmental Conditions for Equipment Qualification Requirements," 2BVM-119, Revision 5, April 19, 1984.
2. MEQ File 666A-01, Rev. 0.