

JUN 06 1983

Docket No.: 50-412

APPLICANT: Duquesne Light Company

FACILITY: Beaver Valley Power Station, Unit 2 (BVPS-2)

SUBJECT: BVPS-2 EQUIPMENT QUALIFICATION PROGRAM

A meeting was held with Duquesne Light Company (DLC) on Monday, December 19, 1983 at NRC Headquarters in Bethesda, Maryland. DLC was accompanied by representatives of Stone and Webster Engineering Corporation. The NRC was represented by the Division of Licensing and the Division of Engineering. A list of attendees is included as Enclosure 1.

The purpose of the meeting was the discuss DLC's Equipment Qualifications Program. The technical reviews associated with the environmental qualifications of both the electrical and mechanical equipment were discussed. DLC presented their position on Regulatory Guide 1.89, "Qualification of Class 1E Equipment for Nuclear Power Plants." The position, dated September 22, 1983, states that Class 1E equipment presently delivered or on order will meet or exceed the intent of IEEE 323, 1971 and Category II of NUREG-0588, Rev. 1. When determined possible by DLC, the qualification of this equipment will be upgraded to meet the standards set forth in Category I of NUREG-0588, Rev. 1. Replacement safety related electrical equipment will meet the standards set forth in 10 CFR 50.49 unless there are sound reasons to the contrary as outlined in proposed Rev. 1 to Regulatory Guide 1.89, dated May 1983.

DLC is scheduled to have 85% of their electrical equipment environmentally qualified and installed in the March-June 1985 time frame.

The handouts presented at the meeting are attached as Enclosure 2.

Lisamarie Lazo, Project Manager
Licensing Branch No. 3
Division of Licensing

Enclosures:
As stated

DISTRIBUTION

Docket File
LB#3 Reading
LLazo
GWKnighton

8507090417 850606
PDR ADOCK 05000412
A PDR

DL:LB#3
LLazo
05/28/85

DL:LB#3
GWKnighton
05/28/85



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUN 06 1985

Docket No.: 50-412

APPLICANT: Duquesne Light Company

FACILITY: Reaver Valley Power Station, Unit 2 (BVPS-2)

SUBJECT: BVPS-2 EQUIPMENT QUALIFICATION PROGRAM

A meeting was held with Duquesne Light Company (DLC) on Monday, December 19, 1983 at NRC Headquarters in Bethesda, Maryland. DLC was accompanied by representatives of Stone and Webster Engineering Corporation. The NRC was represented by the Division of Licensing and the Division of Engineering. A list of attendees is included as Enclosure 1.

The purpose of the meeting was to discuss DLC's Equipment Qualifications Program. The technical reviews associated with the environmental qualifications of both the electrical and mechanical equipment were discussed. DLC presented their position on Regulatory Guide 1.89, "Qualification of Class 1E Equipment for Nuclear Power Plants." The position, dated September 22, 1983, states that Class 1E equipment presently delivered or on order will meet or exceed the intent of IEEE 323, 1971 and Category II of NUREG-0588, Rev. 1. When determined possible by DLC, the qualification of this equipment will be upgraded to meet the standards set forth in Category I of NUREG-0588, Rev. 1. Replacement safety related electrical equipment will meet the standards set forth in 10 CFR 50.49 unless there are sound reasons to the contrary as outlined in proposed Rev. 1 to Regulatory Guide 1.89, dated May 1983.

DLC is scheduled to have 85% of their electrical equipment environmentally qualified and installed in the March-June 1985 time frame.

The handouts presented at the meeting are attached as Enclosure 2.

Lisamarie Lazo
Lisamarie Lazo, Project Manager
Licensing Branch No. 3
Division of Licensing

Enclosures:
As stated

Beaver Valley

Mr. John J. Carey
Vice President, Nuclear
Duquesne Light Company
Robinson Plaza Building, No. 2, Suite 110
PA Route 60
Pittsburgh, Pennsylvania 15205

Gerald Charnoff, Esq.
Jay E. Silberg, Esq.
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, DC 20036

Mr. C. W. Ewing, Quality Assurance
Manager
Quality Assurance Department
Duquesne Light Company
P. O. Box 186
Shippingport, Pennsylvania 15077

Mr. John J. Carey
Vice President, Nuclear
Duquesne Light Company
P. O. Box 4
Pittsburgh, Pennsylvania 15205

Mr. T. J. Lex
Westinghouse Electric Corporation
Power Systems
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. P. RaySircar
Stone & Webster Engineering Corporation
P. O. Box 2325
Boston, Massachusetts 02107

Mr. Glenn Walton
U. S. NRC
P. O. 181
Shippingport, Pennsylvania 15077

Mr. Thomas E. Murley, Regional Admin.
U. S. NRC, Region I
631 Park Avenue
King of Prussia, Pennsylvania 15229

Mr. R. E. Martin, Manager Engineering
Beaver Valley Two Project
Duquesne Light Company
Robinson Plaza Building No. 2, Suite 110
PA Route 60
Pittsburgh, Pennsylvania 15205

Zori Ferkin
Assistant Counsel
Governor Energy Council
1625 N. Front Street
Harrisburg, PA 15105

Director, Pennsylvania Emergency
Management Agency
Room B-151
Transportation & Safety Building
Harrisburg, Pennsylvania 17120

Mr. Thomas Gerusky
Bureau of Radiation Protection
PA Department of Environmental
Resources
P. O. Box 2063
Harrisburg, Pennsylvania 17120

BVPS-2 Records Management Supervisor
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077

John A. Lee, Esq.
Duquesne Light Company
1 Oxford Centre
301 Grant Street
Pittsburgh, Pennsylvania 15279

- 2 -

Mr. E. F. Kurtz, Jr., Manager
Regulatory Affairs
Beaver Valley Two Project
Duquense Light Company
Robinson Plaza Buidling No. 2
Suite #210
PA Route 60
Pittsburgh, Pennsylvania 15205

ENCLOSURE 1

EQ Meeting
December 19, 1983

ATTENDEES

NRC

L. Lazo
R. LaGrange
D. Reiff

APPLICANT

E. Eilmann, DLC
C. Hill, DLC
W. Rutherford, DLC
K. Woessner, DLC
J. Hutlz, DLC
N. Sacco, SWEC
K. Bendiksen, SWEC

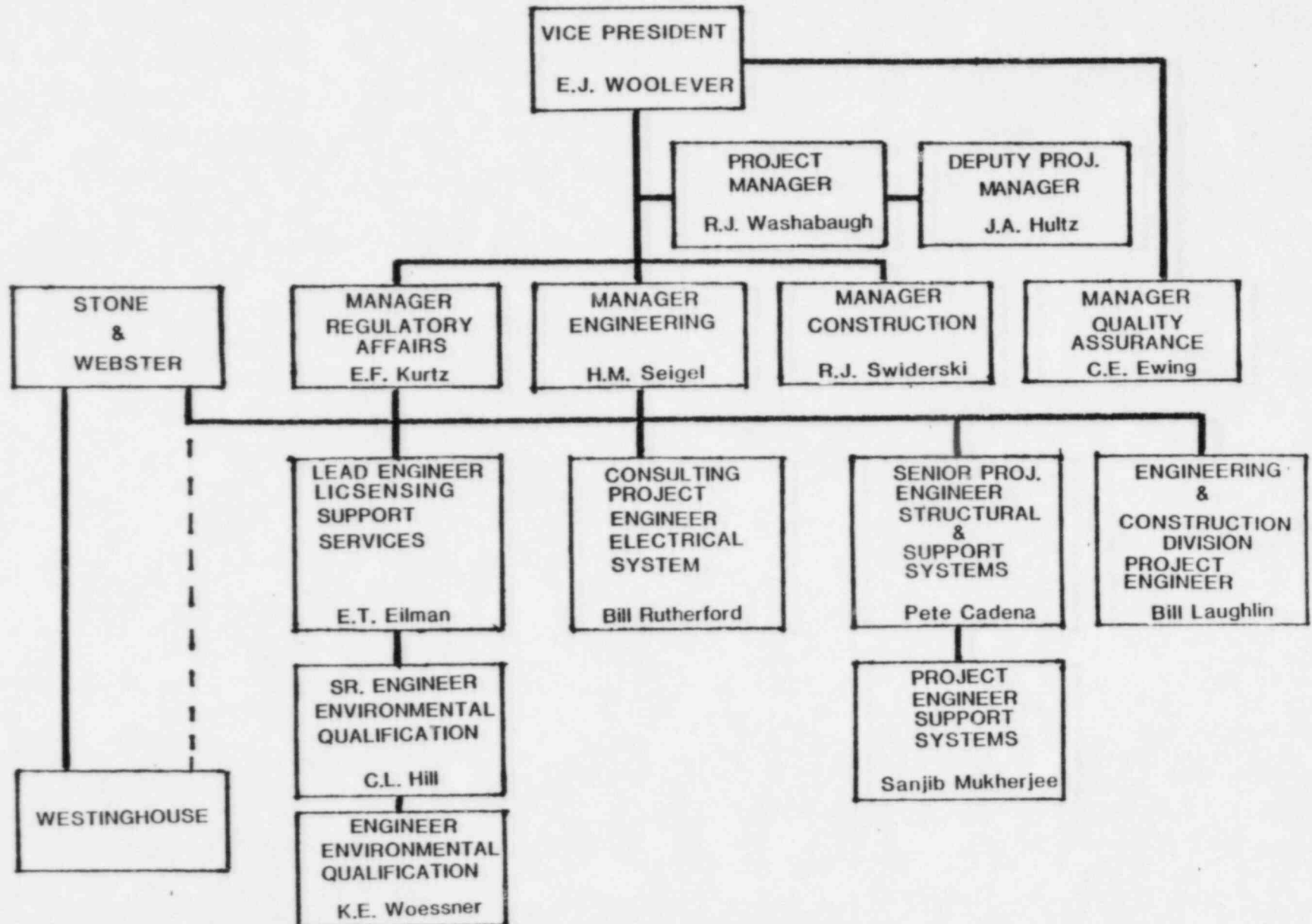
DUQUENSE LIGHT COMPANY
MEETING WITH NRC ON EQUIPMENT QUALIFICATION ISSUES
BETHESDA, MD DECEMBER 19, 1983 9:30 A.M.

AGENDA

- 1) Introduction and Scope of Meeting
- 2) Organization
- 3) Seismic Qualification
- 4) Environmental Qualification of Electrical Equipment
- 5) Environmental Qualification of Mechanical Equipment
- 6) Closing Remarks

NUCLEAR CONSTRUCTION DIVISION

PERSONNEL INVOLVED IN ENVIROMENTAL QUALIFICATION



TECHNICAL REVIEWS

A. E.Q. EQUIPMENT IDENTIFICATION AND SYSTEM FUNCTION

B. ENVIRONMENT IDENTIFICATION

C. E.Q. PROGRAM REVIEW

A. E.Q. EQUIPMENT IDENTIFICATION AND SYSTEM FUNCTION

1. SYSTEM DESIGN FUNCTION

2. PERFORMED BY SYSTEM ENGINEERS OF VARIOUS DISCIPLINES

3. EQUIPMENT TRACKED BY THE PROJECT EQUIPMENT SYSTEM (PES)

4. FUNCTIONS TRACKED BY THE ESSENTIAL SYSTEMS,
COMPONENTS, AND INSTRUMENTATION REQUIRED
FOR SAFETY FUNCTIONS (2BVM-114)

B. ENVIRONMENT IDENTIFICATION - LOCATION ORIENTED

1. NON-SEISMIC

a) PERFORMED BY NUCLEAR TECHNOLOGY
AND POWER DIVISIONS

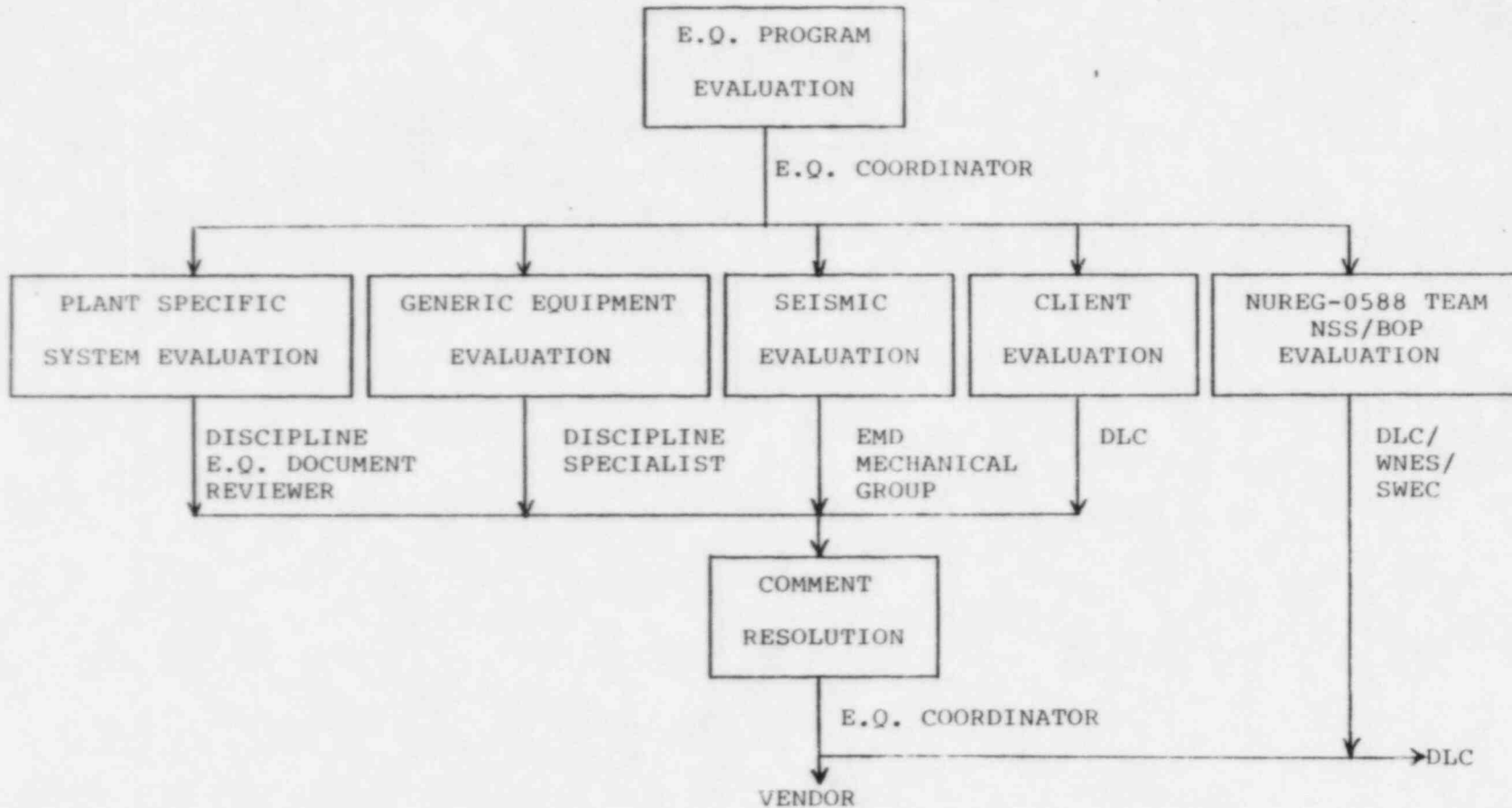
b) TRACKED BY ENVIRONMENTAL CONDITIONS
FOR E.Q. REQUIREMENTS (2BVM-119)

2. SEISMIC

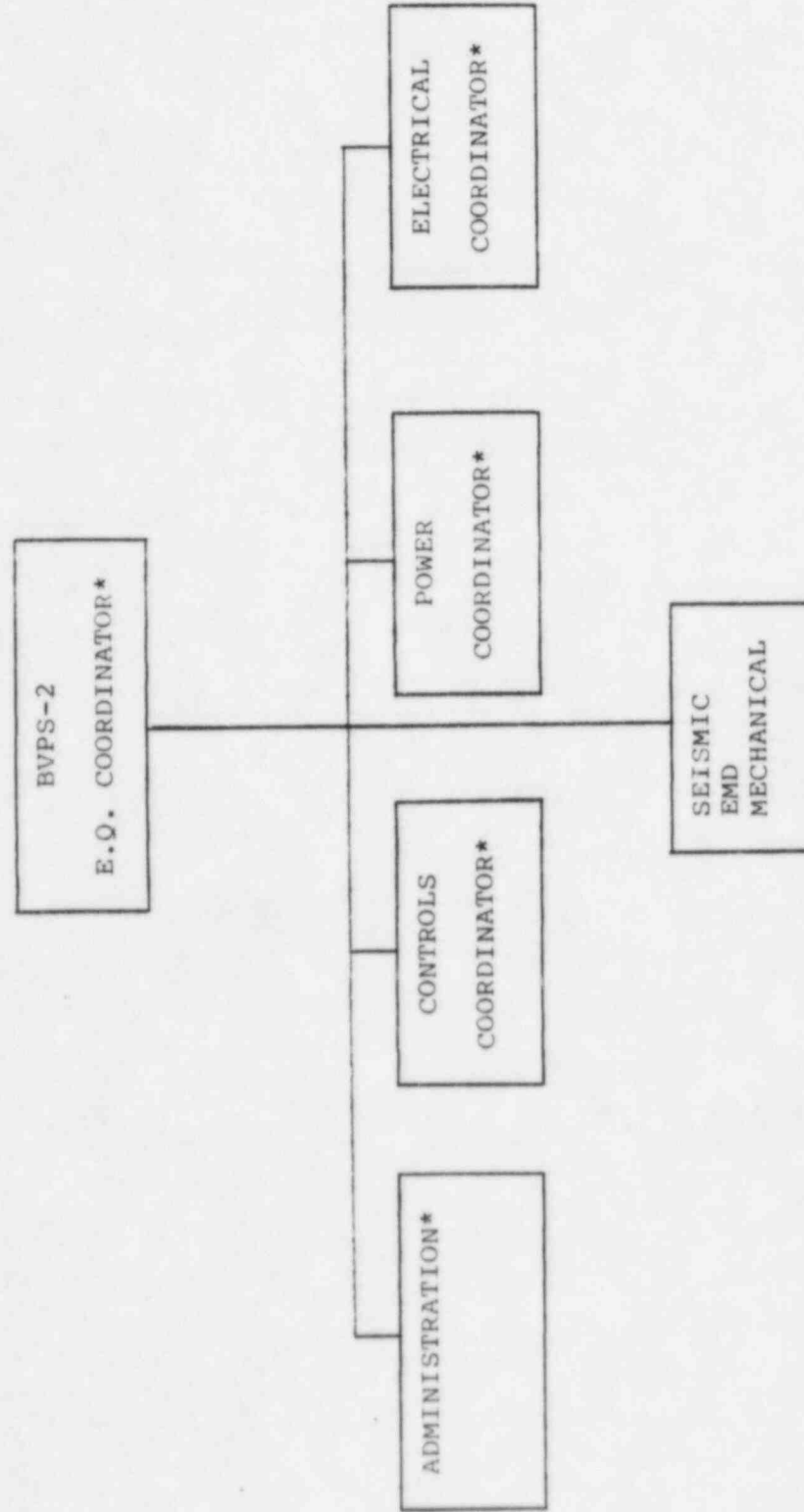
a) PERFORMED BY ENGINEERING MECHANICS DIVISION

b) TRACKED BY SEISMIC DATA SHEET

C. E.Q. PROGRAM REVIEW
FOR
CLASS 1E EQUIPMENT



E.O. COORDINATION GROUP
FOR
CLASS 1E EQUIPMENT



* ELECTRICAL DIVISION PERSONNEL

REPORT NO. BV2-007

JOB NAME BVPS-UNIT 2
 UTILITY DUQUESNE LIGHT CO.
 DOCKET NO. 50-412

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

REPORT DATE 12/08/83

ENGINEER: STONE & WEBSTER
 NSSS SUPPLIER: WESTINGHOUSE

EQUIPMENT ID	DESCRIPTION MANUFACTURER MODEL	QUAL REPORT SPEC QTY	LOCATION BLDG ELEV HTG	SEIS	LOADS OTHER INPUT DYN. REQ'D	QUAL METH ANLYS FREQ	NAT FREQS D F/B S/S VERT	STATUS
2CHS-HOV111	DEGAS TO VOL CONT TK ISO LIMITORQUE SHB-000-2	082A	AB 00712. RRS REF- CODES-	.	.	.	.	.
2CHS-HOV100A	CHS MOTOR OPERATED VALVE LIMITORQUE SHB-000	091	AB 0760 RRS REF- CODES-	.	.	.	.	.
2CHS-HOV100B	CHS MOTOR OPERATED VALVE LIMITORQUE SHB-000	091	AB 0760 RRS REF- CODES-	.	.	.	.	.
2CHS-TRS-P21C	HAN TRANSFER SH FOR 2CHS-P21C I-T-E IMPERIAL CORP HPLC	304 1	SB 00730. RRS REF- CODES-	.	.	.	.	.
2CHS-FLT21	BORIC ACID FILTER CARBORUNDUM CO N/A	525 1	AB 00723. RRS REF- CODES-	.	.	.	.	.
2CHS-FLT22	REACTOR COOLANT FILTER CARBORUNDUM CO N/A	525 1	AB 00723. RRS REF- CODES-	.	.	.	.	.
2CHS-FLT23	SEAL WATER FILTER CARBORUNDUM CO N/A	525 1	AB 00722. RRS REF- CODES-	.	.	.	.	.
2CHS-FLT24A	SEALWTR INJECTION FILTER CARBORUNDUM CO N/A	525 1	AB 00723. RRS REF- CODES-	.	.	.	.	.
2CHS-FLT24B	SEAL WTR INJECTION FILTER CARBORUNDUM CO N/A	525 1	AB 00723. RRS REF- CODES-	.	.	.	.	.
2CHS-FE123A	BORIC ACID XFER PMP DISCH	602	AB 0717 RRS REF- CODES-	.	.	.	.	.

DUQUESNE LIGHT COMPANY BEAVER VALLEY POWER STATION UNIT NO. 2 REGULATORY GUIDE POSITION

REGULATORY GUIDE NO. 1.89 REV. 0 DATE 11/74

TITLE: QUALIFICATION OF CLASS IE EQUIPMENT FOR NUCLEAR POWER PLANTS

BVPS UNIT 2 POSITION

REV. 1 DATE 9-22-83

Because of the NRC Commissioners' memorandum and order (CLI-80-21), BVPS-2 must meet the requirements of NUREG-0588, Rev. 1, for a Category II plant. This ruling supersedes the requirements of Regulatory Guide 1.89, November 1974. The present BVPS-2 position on qualification of Class IE equipment is as follows:

Class IE equipment presently delivered or on order will meet or exceed the intent of IEEE 323, 1971 and Category II of NUREG-0588, Rev. 1. When determined possible by Duquesne Light Company, the qualification of this equipment will be upgraded to meet the standards set forth in Category I of NUREG-0588, Rev. 1. Replacement safety related electrical equipment will meet the standards set forth in 10CFR50.49 unless there are sound reasons to the contrary as outlined in proposed Revision 1 to Regulatory Guide 1.89, dated May 1983.

APPROVALS

Kenneth E. Wassner 7/20/83
PREPARER/DATE

J. B. [Signature] 7/29/83
LEAD LICENSING ENGR./DATE

H. H. Williams 8/31/83
NUCLEAR DIVISION/DATE

[Signature] 9-13-83
NCD MANAGER OF ENGINEERING/DATE

[Signature] 7-19-83
NCD MANAGER OF REG. AFFAIRS/DATE

STONE & WEBSTER

EQUIPMENT QUALIFICATION PROCEDURES FOR BVPS#2

- o 2BVM-114 ESSENTIAL SYSTEMS,COMPONENTS,
AND INSTRUMENTATION REQUIRED FOR SAFETY
FUNCTIONS.
- o 2BVM-119 ENVIRONMENTAL CONDITIONS FOR
EQUIPMENT QUALIFICATION REQUIREMENTS.
- o 2BVM-128 ENVIRONMENTAL QUALIFICATION
PROGRAM FOR CLASS 1E ELECTRICAL
EQUIPMENT.
- o 2BVM-135 ENVIRONMENTAL QUALIFICATION
CONDITIONAL RELEASE PROGRAM FOR CLASS
1E EQUIPMENT.

DLC EQUIPMENT QUALIFICATION PROCEDURES

- o NCDP 3.7 EQUIPMENT QUALIFICATION PROGRAM
- o NCDP 3.7.1 BVPS-2 EQUIPMENT QUALIFICATION
CONDITIONAL RELEASE PROGRAM
- o NCDP 2.7.3 EQUIPMENT QUALIFICATION REVIEW

SCHEDULE FOR ENVIRONMENTAL QUALIFICATION ACTIVITIES

- o SEPARATE SUBMITTAL

- 1. INITIAL - 2ND QUARTER OF 1984

- 2. UPDATE - 1ST QUARTER OF 1985

- o 85% COMPLETELY QUALIFIED AND INSTALLED

- MARCH - JUNE 1985

MECHANICAL EQUIPMENT QUALIFICATION PROGRAM

1. Identification of the safety-related mechanical equipment located in harsh environment areas.
2. Identification of the non-metallic subcomponents of such equipment.
3. Identification of the postulated environments for this equipment.
4. Identification of the non-metallic material capabilities.
5. Evaluation of the environmental effects on these materials.

PROGRAM DOCUMENTATION

1. A master list of all equipment included in this program.
2. A summary report for each piece of equipment indicating:
 - a. list of non-metallics
 - b. postulated parameters for the non-metallics
 - c. qualification status for the equipment
3. Procedures utilized in accomplishing the qualification of the equipment.
4. Amendments to the FSAR as required by the NRC staff.

MEETING SUMMARY DISTRIBUTION

Docket No(s): 50-412

NRC PDR

Local PDR

NSIC

PRC System

LB3 Reading

Attorney, OELD

GWKnighton

Project Manager LLazo

JLee

NRC PARTICIPANTS

L. Lazo

R. LaGrange

D. Reiff

bcc: Applicant & Service List