

JUN 6 1985

Docket No. 50-412

APPLICANT: Duquesne Light Company (DLC)

FACILITY: Beaver Valley Power Station, Unit 2

SUBJECT: MEETING SUMMARY - PROBABLE MAXIMUM PRECIPITATION (PMP)

On March 28, 1985, NRC and applicant representatives met in Bethesda, Maryland to discuss PMP issue. This meeting was originally scheduled as backfit appeal meeting but was changed to a technical meeting to resolve technical differences between the two parties. A meeting notice and attendance roster are enclosed (Enclosures 1 and 2 respectively).

The applicant provided flood levels at critical entrances and volume of floor through exterior doors using Probable Maximum Flood (PMF) values based on Hydrometeorological Reports (HMR) Nos. 51 and 52. These PMF values were transmitted to the applicant by a letter dated March 7, 1985. The potential effects of these values on safety-related equipment were discussed in the meeting. The applicant's results are enclosed (Enclosure 3). The effect of ponded water on roofs of safety-related building were also discussed.

The staff requested factual information concerning consequences of flooding through the identified doors and the details on roof design. Therefore, another meeting was scheduled on April 9, 1985. The above issues were discussed in this meeting and the applicant was requested to docket the information provided in this meeting. The staff thought that the calculation methods were reasonable.

The staff's report on local flooding is attached as Enclosure 4.

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B. K. Singh, Project Manager
Licensing Branch No. 3
Division of Licensing

Enclosures:
As stated

cc: See next page

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JUN 6 1985

MEETING SUMMARY DISTRIBUTION

Docket No(s): 50-412

NRC PDR

Local PDR

NSIC

PRC System

LB3 Reading

Attorney, OELD

GWKnighton

Project Manager BK Singh

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G. W. Knighton

J. P. Knight

R. L. Ballard

R. Gonzales

D. Cherry, Jr.

J. Convan

bcc: Applicant & Service List

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- 2 -

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Agenda for the Beaver Valley 2 Backfit Appeal Meeting Relating to
Probable Maximum Precipitation

1. Discuss safety significance of flood protection.
2. Discussion of NRC and applicant written position and any additional clarification on:
 - a. staff requirements
 - b. how staff requirements relating to Probable Maximum Precipitation should achieve and maintain an acceptable level of safety
 - c. relation of staff requirements to existing regulations
 - d. schedule for implementing requirements
3. How staff requirements do or do not constitute a backfit.



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

Enclosure 1

MAR 22 1985

Docket No.: 50-412

MEMORANDUM FOR: George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

FROM: Victor Nerses, Project Manager
Licensing Branch No. 3
Division of Licensing

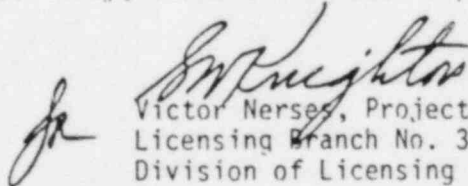
SUBJECT: FORTHCOMING BEAVER VALLEY 2 MEETING BETWEEN THE NRC AND
DUQUESNE LIGHT COMPANY

DATE & TIME: Thursday, March 28, 1985
2:30 pm

LOCATION: P-412
Phillips Building
7920 Norfolk Avenue
Bethesda, Maryland

PURPOSE: Appeal of the requirements relating to Probable Maximum
Precipitation (refer to enclosed agenda).

PARTICIPANTS: NRC
H. Thompson, J. Knight, W. Johnston, R. Ballard, G. Knighton,
V. Nerses, et al.
Duquesne Light Company
E. Kurtz, J. J. Carey, Stone and Webster Representatives, et al.


Victor Nerses, Project Manager
Licensing Branch No. 3
Division of Licensing

Enclosure: As stated

cc: See next page

*Meetings between NRC technical staff and applicants for licenses are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to "Open Meeting Statement of the NRC Staff Policy", 43 Federal Register 28058, 6/28/78. Those interested in attending this meeting should make their intentions known to the Project Manager, V. Nerses, at (301) 492-7238, by no later than noon, March 27, 1985.

~~857474467~~ 4pp.

Enclosure 2

Date: March 28, 1985

Attendance List

Beaver Valley, Unit 2

PMP Issue

B. K. Singh	NRC/NRR/DL/LB #3	Project Manager
G. W. Knighton	NRC/NRR/DL/LB #3	B.C.
JP Knight	NRC/DE	
R. L. Ballard	NRC/DE	Ch. EH&B.
RAY GONZALES	NRC/DE	EH&B
Donald L. Cherry Jr.	NRC/NRR/DE/HEGB	Sect. Leader HES
Jim Convan	NRC/EDO/DE/ROGR	
JACK SCHULZE	GENERAL ACCOUNTING OFFICE	
Bill Mc Dowell	U.S. EAO	
RUSS WALLAUER	DLC	BACKFILL MGR
Y. C. Chang	SWEC	Hydrologist
EG Nelson	SWEC	Lead Environmental Eng
G. L. BEATTY	DLC	LEAD LICENSING ENG.
E. T. EILMANN	DLC	LEAD LICENSING SUPPORTER
T. J. Ziegler	DLC	SA ENG - ENVIRONMENTAL
E. F. KURTZ JR	DLC	MGR REGULATORY AFFAIRS

VOLUME OF FLOW THROUGH EXTERIOR DOORS USING
NRC PMF VALUES FROM HMR 51/52

Enclosure 3

CAT 1 STRUCTURES	DOOR I.D.	DOOR WIDTH (FT)	MAX WEAR GAP (IN)	THRESHOLD HEIGHT (IN)	DEPTH OF WATER OVER SILL (FT)	DURATION (MIN)	VOLUME (FT ³)
AUX BLDG	A35-5	8	1/16	5/8	0.3	10	72
	A35-1	3	1/8	5/8	0.3	10	59
	A35-3	3	1/8	5/8	0.3	10	59
CONTROL BLDG	S35-71	7	1/32	5/8	0.3	10	22
	S35-74	6	1/32	5/8	0.3	10	19
	S35-72	3	1/8	5/8	0.3	10	59
	035-1	3.5	1/16	1/2	0.3	10	32
	035-2	3	1/32	1/2	0.3	10	10
	035-1	3	1/32	0	0.3	10	11
SERVICE BLDG	SB30-8	8	1/16	0	0.80	5	68
					0.34		43
					0.32		41
					0.30		40
					0.28		38
					0.26		37
					0.22		34
					0.20		32
					0.17		29
					0.15		27
					0.13		25
					0.10		21
DIESEL BLDG	SB30-7	3	1/8	5/8	0.3	5	435
	DG32-1	3	1/16	5/8	0.3	5	14
	DG32-4	3	1/16	5/8	0.3		14
	DG32-5	3	1/8	5/8	0.3		30
	DG32-2	3	1/16	0			15
	DG32-6	3	1/8	5/8	0.3		30
	DG32-3	3	1/16	0			15
FUEL & DECON BLDG	F35-1	3	1/16	5/8	0.3	10	27
	F35-2	23	1/16	0	0.2	10	183
	F35-3	3	1/16	5/8	0.2	10	20
	D35-1	12	1/16	0	0.2	10	95
	D35-2	3	1/16	5/8	0.2	10	20

Flood Levels at Critical BVPS-2 Entrances Based on HMR 51/52

<u>Category I Structures</u>	<u>Lowest Access to Bldg. from yard (feet-msl)</u>	<u>Max. Water Surface El. at Access Doors (feet)</u>	<u>Max. Water Depth Over Sill (feet)</u>	<u>Water Depth In Area Without Drains (Inch)</u>	<u>Water Depth In Area With Drains (Inch)</u>
Main Steam Valve Building Area	735.5	732.8	-	-	-
Safeguards Building	737.5	732.8	-	-	-
Reactor Containment (equipment hatch)	767.83	735.5	-	-	-
Emergency Diesel Generator Building.					
1 Door	732.5	732.8	0.3		
2 Doors	732.5	732.8	0.3	0.2	trace
Auxiliary Building					
3 Doors	735.5	735.8	0.3	trace (1)	trace
Fuel & Decontamination Building					
1 Door	735.5	735.8	0.3		
3 Doors	735.5	735.7	0.2	(2)	trace
Control Building					
3 Doors (So.)	735.5	735.8	0.3		
2 Doors (Ho.)	735.5	735.8	0.3	<0.1	(3)
Service Building					
1 Door (SB30-6)	732.0	732.0	0.8		
1 Door	732.5	732.8	0.3	1.3	trace

- (1) Less critical than internal pipe break analysis
 (2) No equipment required for safe shutdown
 (3) Interior floor drains in Equipment room only