

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) NORTH ANNA POWER STATION, UNIT 1 & 2 DOCKET NUMBER (2) 0 5 0 0 0 3 3 8 1 OF 0 2

TITLE (4) FLOODING POTENTIAL NOT PREVIOUSLY EVALUATED

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)			
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)		
03	19	85	85	003	00	04	18	85	NORTH ANNA, UNIT 2	0 5 0 0 0 3 3 9		
										0 5 0 0 0 1 1 1		

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9) 1	20.402(b)	20.406(e)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 1100	20.406(a)(1)(i)	50.38(a)(1)	50.73(a)(2)(v)	73.71(e)
	20.406(a)(1)(ii)	50.38(a)(2)	50.73(a)(2)(vii)	X OTHER (Specify in Abstract below and in Text, NRC Form 356A)
	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	50.73 (a) (2) (vi)

LICENSEE CONTACT FOR THIS LER (12)

NAME E. WAYNE HARRELL TELEPHONE NUMBER 7103 8941-15151

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (if yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (15)

A recent review of the North Anna Main Dam and other hydro structures revealed that previous studies had failed to identify the Unit 3 & 4 construction area as a potential flood path to the Unit 1 & 2 Turbine Building. Partial flooding of the Turbine Building is addressed by the UFSAR. Current procedures provide guidance for action to be taken in response to rising lake level. Long term corrective actions are currently being developed.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  NORTH ANNA POWER STATION, UNIT 1 & 2	DOCKET NUMBER (2)  0500033885	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		85	003	00	02	OF 02

TEXT (If more space is required, use additional NRC Form 366A's) (17)

A recent review of the North Anna Main Dam and other hydro structures revealed that previous studies had failed to identify the Unit 3 & 4 construction area as a potential flood path to the Unit 1 & 2 Turbine building. Partial flooding of the Turbine building is addressed by the UFSAR. The normal Lake Anna water level is 250 feet above mean sea level (msl). Finished ground grade elevation for the station is 271 feet. The Turbine Building basement elevation is 254 feet. The Unit 2 end of the Turbine building faces the Unit 3 & 4 restored construction site area which has a nominal elevation of 250 feet. Dike VI protects the Unit 3 & 4 construction area from Lake Anna flooding up to 255 feet. The original FSAR estimated lake flood level was 254.5 feet. In June 1976 a revised analysis indicated a still-water probable maximum flood level of 264.2 feet could exist at the station site. The height of Dike VI had not been identified as insufficient until a recent study.

During a probable maximum flood, Dike VI would not protect the Unit 3 & 4 restored construction site from flooding. Further, Unit 2 Turbine Building does not have a water tight wall (cinder block with doors sealed by steel plating) on the side facing the restored area. The UFSAR evaluation addresses flooding the Turbine Building to 255' 11" during a maximum flood event, without safety related equipment damage. If no additional action is taken to pump the Turbine Building the possibility exists that the water level in the Turbine Building could exceed the height of the water tight walls which are designed to protect the Service and Auxiliary Buildings to the 257 foot level.

A significant length of time will exist between the first indication of rising lake level and possible Service Building flooding and will allow adequate corrective measures to be implemented. Existing procedures provide guidance on lake level control with the operation of dam gates, shutdown of both units during unusually high lake level, minimizing Turbine Building flooding and implementing the Emergency Plan if safety related equipment could be affected by flooding. Permanent physical corrective actions, which will protect the Turbine Building from flooding, are currently being evaluated.

NORTH ANNA POWER STATION  
P.O. BOX 402  
MINERAL, VIRGINIA 23117



April 18, 1985

U. S. Nuclear Regulatory Commission  
Document Control Desk  
016 Phillips Building  
Washington, D.C. 20555

Serial No. N-85-009  
NO/RST: kbs  
Docket No. 50-338  
50-339

License No. NPF-4  
NPF-7

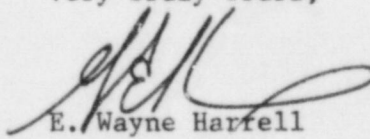
Dear Sirs:

The Virginia Power Company hereby submits the following Licensee Event Report applicable to North Anna Units 1 and 2.

Report No. LER 85-003-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to Safety Evaluation and Control for their review.

Very Truly Yours,

  
E. Wayne Harfell  
Station Manager  
*for*

Enclosures (3 copies)

cc: Dr. J. Nelson Grace, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

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