



Carolina Power & Light Company

Brunswick Nuclear Plant  
P. O. Box 10429  
Southport, NC 28461-0429

MAR 29 1993

FILE: B09-13510C  
SERIAL: BSEP-93-0033

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1  
DOCKET NO. 50-325  
LICENSE NO. DPR-71  
SPECIAL REPORT PER TECHNICAL SPECIFICATION 3.7.8 AND  
PURSUANT TO TECHNICAL SPECIFICATION 6.9.2 (SR 1-93-004)

Gentlemen:

Unit 1 was in Cold Shutdown for the outage started on April 21, 1992. The following summarizes fire protection Limiting Condition for Operation (LCO) A1-93-F0172:

On February 12, 1993, the latch arm gasket failed on Deluge Valve 20 causing a leak in the valve pit. Deluge valve 20 is the supply valve for the Unit 1 Reactor Building sprinkler system. Failure of the gasket causes a system leakage problem but does not of itself render the fire protection system inoperable. This is an original design problem with the deluge valves. At 0635, the deluge valve was isolated to allow investigation into the cause of the gasket failure. A Limiting Condition of Operation was initiated and compensatory actions were placed in effect. The gasket is scheduled to be replaced and the system declared operable by April 15, 1993.

Brunswick Nuclear Plant believes that gasket failure in these valves is due to a design deficiency. An investigation is in progress to identify methods for permanent repair. An updated status report will be provided by July 1, 1993.

Continuous firewatches have been placed in five areas of the Reactor Building (north and south -17'0" elevation, north and south 20'0" elevation and north 50'0" elevation). Backup fire suppression is the Reactor Building Standpipe System. Compensatory measures will remain in effect until the Deluge Valve can

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be returned to service. The special report is required due to the system being inoperable longer than the 14 days required by Technical Specifications.

Very truly yours,

*CS Hinnant ECR*

R. E. Morgan, Plant Manager Unit 1  
Brunswick Nuclear Plant

cc: Mr. S. D. Ebnetter  
Mr. P. D. Milano  
BSEP NRC Resident Office