REQUEST FOR ADDITIONAL INFORMATION

PWR MAIN STEAM LINE BREAK WITH CONTINUED FEEDWATER ADDITION

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2

NRC DOCKET NO. 50-338, 50-339

NRC TAC NO. 46845, 46846

NRC CONTRACT NO. NRC-03-81-130

FRC PROJECT C5506

FRC ASSIGNMENT 5

FRC TASK 133

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BACKGROUND

Evaluation of the information contained in the May 8, 1980 [1] letter from Virginia Electric and Power Company (VEPCO) to the Nuclear Regulatory Commission (NRC) relating to IE Bulletin 80-04, "Analysis of a PWR Main Steam Line Break with Continued Feedwater Addition," revealed an item of concern. Additional information relating to this concern is needed before a final evaluation can be made regarding the potential for exceeding containment design pressure.

The concern and the additional information needed to resolve this concern are identified in this Request for Additional Information.

ITEM

CONCERN

Item 1 of IE Bulletin 80-04 directs the Licensee to review containment pressure response to a main steam line break (MSLB) accident to determine the impact of runout flow from the auxiliary feedwater (AFW) system and other energy sources at North Anna Units 1 and 2.

In addition, it directs the Licensee to evaluate the ability of the AFW pumps to remain operable after extended operation at runout flow. Since the containment pressure response analysis contained in Section 6.2.1.3.1 of the North Anna PSAR [2] indicated that impact of AFW runout flow to the ruptured steam generator was included in the analysis, an evaluation of pump operability is required.

REQUEST

Please provide an evaluation of the ability of the motor-driven and turbine-driven AFW pumps to remain operable for 30 minutes at runout flow.

REFERENCE

1. B. R. Sylvia (VEPCO)
   Letter to J. P. O'Reilly (NRC)
   Subject: Response to IE Bulletin 80-04
   May 8, 1980

2. Final Safety Analysis Report
   North Anna Power Station
   Section 6.2.1.3.1