

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 25, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attention: Mr. Robert A. Clark, Chief
Operating Reactors Branch No. 3
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 649
NO/RMB:smv
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Dear Mr. Denton:

MULTIPLE STRUCTURE ARS CONCERN
NORTH ANNA UNIT NO. 1

This letter provides a summary of the results of Phase I of the Multiple Structure ARS Evaluation of North Anna Unit No. 1 piping systems design. The method of evaluation was as described in our letter Serial No. 510 dated June 6, 1980.

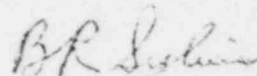
The purpose of the Phase I evaluation was to determine which problems among the 68 requiring review are not substantially affected by the consideration of Multiple Structure ARS and which problems will require a more detailed evaluation before the full effects can be determined. The Phase I engineering effort is now complete with all the 68 stress problems reviewed. We have found that 36 of the computerized analysis problems are not substantially affected and will therefore require no further review. These problems have been classified as "Category A" as defined in our letter Serial No. 510. The remaining 32 stress problems have been classified as "Category B". These remaining problems will receive further evaluation in Phase II of our effort. The categorization of the initial 68 problems is listed as Attachment I to this letter. Additionally, the review of the multiple structure ARS as applied to site analyzed small bore piping is complete, and it has been determined that there is no substantial effect.

The Phase II effort, consisting of a calculational evaluation of the "Category B" stress problems, has begun on Unit 1. As stated in our letter Serial No. 616 dated July 11, 1980 on North Anna Unit 2, we propose to conduct the Phase II effort for Units 1 and 2 in parallel, thus impacting our previous target date for completing Phase II on Unit 1 of September 15, 1980. We believe that a minimum of four months will be required to complete Phase II for both units after completion of Phase I on Unit 2. Therefore, our target date for completing Phase II on Units 1 and 2 is now December 31, 1980. As stated in our previous correspondence on this matter, if at any time during the detailed Phase II effort, results obtained clearly show that a design of a particular piping system or support cannot be justified against the concept of multiple structure input, the system will be reviewed per Technical Specification requirements and appropriate action taken.

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Please let us know if you have any question or comment on the above. We plan to submit a final detailed report upon completion of the Phase II effort but would be available to discuss our progress on this matter with you at any time.

Very truly yours,



B. R. Sylvia
Manager - Nuclear
Operations and Maintenance

RMB/smv:SF2

cc: Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
Washington, D. C. 20555

Mr. S. A. Varga, Chief
Operating Reactors Branch No. 1
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Mr. James P. O'Reilly, Director
Office of Inspection & Enforcement
Region II
Atlanta, Georgia 30303

ATTACHMENT 1
MULTIPLE STRUCTURE ARS EVALUATION
PHASE I Unit 1

Category A

MSK-101C
MSK-101D
MSK-102A
MSK-102B
MSK-103C
MSK-103D
MSK-103F
MSK-103G
MSK-103J
MSK-103K
MSK-103AE
MSK-103AN
MSK-103AP
MSK-104F
MSK-104G
MSK-104H
MSK-105F
MSK-105G
MSK-105H
MSK-105J
MSK-107C
MSK-107D
MSK-111N
MSK-111Q
MSK-111S
MSK-114B
MSK-114D
MSK-114C
MSK-118A
MSK-118E
MSK-118G
MSK-118H
MSK-121E
SSR-7 (SA-7236)
SSR-11
SSR-14

Category B

MSK-101A
MSK-101B
MSK-102C
MSK-102D
MSK-103B
MSK-103E
MSK-103R
MSK-103AC
MSK-103AM
MSK-104A
MSK-104D
MSK-107B
MSK-111B
MSK-111C
MSK-114E
MSK-114F
MSK-114K
MSK-114L
MSK-114M
MSK-118B
MSK-118C
MSK-118D
MSK-118F
MSK-118K
MSK-118N
MSK-121A
MSK-121B
SSR-7 (SA-7223)
SSR-7 (SA-7209)
SSR-7 (SA-7198)
SSR-8 (SA-7217)
SSR-8 (SA-7234)