

June 27, 2002

Mr. David A. Christian  
Senior Vice President - Nuclear  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 - REQUEST FOR  
ADDITIONAL INFORMATION RE: PROPOSED TECHNICAL SPECIFICATION  
CHANGES QUENCH SPRAY AND RECIRCULATION SPRAY NOZZLES  
SURVEILLANCE FREQUENCY (TAC NOS. MB4270 AND MB4271)

Dear Mr. Christian:

The staff has reviewed your proposed license amendment submittal dated February 26, 2002, which requested changes to the surveillance frequency for the quench spray and recirculation spray nozzles at North Anna Power Station, Units 1 and 2. Your response to the enclosed request for additional information (RAI) is required in order for the staff to complete their review.

The staff requests a response to the RAI within 20 days of the date of this letter to support the completion of the staff's review by August 2002.

Sincerely,

/RA/

Stephen R. Monarque, Project Manager  
Project Directorate II-1  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-338 and 50-339

Enclosure: As stated

cc w/encl: See next page

June 27, 2002

Mr. David A. Christian  
Senior Vice President - Nuclear  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060

SUBJECT: NORTH ANNA POWER STATION, UNITS 1 AND 2 - REQUEST FOR  
ADDITIONAL INFORMATION RE: PROPOSED TECHNICAL SPECIFICATION  
CHANGES QUENCH SPRAY AND RECIRCULATION SPRAY NOZZLES  
SURVEILLANCE FREQUENCY (TAC NOS. MB4270 AND MB4271)

Dear Mr. Christian:

The staff has reviewed your proposed license amendment submittal dated February 26, 2002, which requested changes to the surveillance frequency for the quench spray and recirculation spray nozzles at North Anna Power Station, Units 1 and 2. Your response to the enclosed request for additional information (RAI) is required in order for the staff to complete their review.

The staff requests a response to the RAI within 20 days of the date of this letter to support the completion of the staff's review by August 2002.

Sincerely,

**/RA/**

Stephen R. Monarque, Project Manager  
Project Directorate II-1  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-338 and 50-339

Enclosure: As stated

cc w/encl: See next page

Distribution:

BLeFave	RidsNrrPMSMonarque	PUBLIC
RidsNrrDlpmLpdii	RidsNrrLAEDunnington	PDII-1 R/F
RidsOgcRp	RidsAcrcAcnwMailCenter	G. Hill (2)
RidsRgn2MailCenter	RLobel	SWeerakkody

Accession Number: ML021790077

OFFICE	PDII-1/PM	PDII-2/LA	SPLB/SC	PDII-1/SC
NAME	SMonarque	CHawes for EDunnington	RLobel for SWeerakkody	RMartin for JNakoski
DATE	06/27/02	06/26/02	06/26/02	06/27/02

OFFICIAL RECORD COPY

Mr. David A. Christian  
Virginia Electric and Power Company

North Anna Power Station  
Units 1 and 2

cc:

Mr. C. Lee Lintecum  
County Administrator  
Louisa County  
P.O. Box 160  
Louisa, Virginia 23093

Mr. David A. Heacock  
Site Vice President  
North Anna Power Station  
P.O. Box 402  
Mineral, Virginia 23117-0402

Ms. Lillian M. Cuoco, Esq.  
Senior Nuclear Counsel  
Dominion Nuclear Connecticut, Inc.  
Millstone Power Station  
Building 475, 5th Floor  
Rope Ferry Road  
Rt. 156  
Waterford, Connecticut 06385

Mr. Richard H. Blount, II  
Site Vice President  
Surry Power Station  
Virginia Electric and Power Company  
5570 Hog Island Road  
Surry, Virginia 23883-0315

Dr. W. T. Lough  
Virginia State Corporation  
Commission  
Division of Energy Regulation  
P.O. Box 1197  
Richmond, Virginia 23209

Robert B. Strobe, M.D., M.P.H.  
State Health Commissioner  
Office of the Commissioner  
Virginia Department of Health  
P. O. Box 2448  
Richmond, Virginia 23218

Old Dominion Electric Cooperative  
4201 Dominion Blvd.  
Glen Allen, Virginia 23060

Mr. William R. Matthews  
Vice President - Nuclear Operations  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, Virginia 23060-6711

Mr. Stephen P. Sarver, Director  
Nuclear Licensing & Operations Support  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060-6711

Office of the Attorney General  
Commonwealth of Virginia  
900 East Main Street  
Richmond, Virginia 23219

Senior Resident Inspector  
North Anna Power Station  
U.S. Nuclear Regulatory Commission  
1024 Haley Drive  
Mineral, Virginia 23117

REQUEST FOR ADDITIONAL INFORMATION  
NORTH ANNA POWER STATION, UNITS 1 AND 2  
PROPOSED TECHNICAL SPECIFICATION CHANGES  
QUENCH SPRAY AND RECIRCULATION SPRAY NOZZLES  
DOCKET NOS. 50-338 AND 50-339

Virginia Electric and Power Company is requested to address the following questions below.

1. Experience at D. C. Cook, Units 1 and 2 (Licensee Event Report (LER) 98-027-02) indicates that boric acid plate-out with the potential to block flow through the containment spray headers and nozzles can occur following an inadvertent spray actuation.
  - (a) Please indicate if there ever has been an inadvertent actuation of the containment spray at North Anna Power Station.
  - (b) If an inadvertent actuation of containment spray had occurred, describe the type of inspection that was done of the spray system, including piping and nozzles, and what other steps were taken to ensure that no boric acid plate-out occurred.
  - (c) If an inadvertent actuation of containment spray had not occurred, describe what type of inspection would be conducted following an inadvertent spray actuation including why this method is sufficient to detect blockage due to boric acid plate-out.
2. Experience at D. C. Cook, Units 1 and 2 (LER 98-027-02) indicates that the typical test for blockage in the containment spray lines and nozzles may not be effective in detecting debris in the spray lines at the amounts reported in this LER.

Please indicate if your testing records show any evidence that the containment spray flow blockage test may have a sensitivity to debris in the lines or nozzles, which cannot be detected by this test. For example, has construction debris or other debris been found in the containment spray system from later inspections, tests or repair work that was not discovered by the containment spray system blockage test required by your technical specifications?
3. Describe any previous maintenance activities on the containment spray system that had the potential to introduce debris. What assurance is there that no such debris presently exists (including debris from construction)?
4. Describe how the plant's foreign material exclusion program would prevent debris from remaining in the containment spray system piping, headers and nozzles following maintenance, testing or inspections which result in opening the system.

Enclosure

Demonstrate why your foreign material exclusion program is sufficient, following any opening of the system, to ensure that nothing remains in the system sufficient to block the system and cause a decrease in spray flow. Shouldn't a blockage test be run to provide a defense in depth that the containment spray system is still capable of performing its safety function after the system is opened?

Following maintenance on a component of the containment spray system, what specific criteria are used to determine whether a flow blockage test of the containment spray system is required? At what level of management is this decision approved?