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NRC PDR F. Williams  
Local PDR O. Parr  
LWR #3 File M. Rushbrook  
A. Dromerick  
T. Wambach  
A. Schwencer

OELD  
IE (3)

BCC: JBuchanan  
TAbernathy  
ACRS (16)

Docket No. 50-338  
and 50-339

MAY 15 1978

Virginia Electric & Power Company  
ATTN: Mr. W. L. Proffitt  
Senior Vice President - Power  
P. O. Box 26666  
Richmond, Virginia 23261

Gentlemen:

SUBJECT: PROPOSED AMENDMENT TO FACILITY OPERATING LICENSE

The Commission has requested the Office of the FEDERAL REGISTER to publish the enclosed Notice of Proposed Issuance of Amendment to Facility Operating License No. NPF-4 for the North Anna Power Station, Unit No. 1. The proposed amendment would revise the Technical Specifications to permit an increase in fuel storage capacity from 400 to 966 fuel assemblies in the spent fuel pool of the North Anna Power Station, Unit No. 1 and Unit No. 2. The amendment would also revise design features and associated operating limits for the storage pool, as necessary, to accommodate the increased storage capacity. The action proposed is in accordance with your application for amendment, dated May 1, 1978.

Sincerely,

Original Signed by  
O. D. Parr  
Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management

Enclosure:  
Federal Register Notice

cc w/enclosure:  
See next page

*Encl. 1*  
*OP*

OFFICE >	LWR #3:LA	LWR #3:LPM	OELD	LWR #3:BC		
SURNAME >	MRushbrook/LM	ADromerick	DSwanson	ODParr		
DATE >	5/ /78	5/ /78	5/ /78	5/ /78		

Virginia Electric & Power Company  
ATTN: Mr. W. L. Proffitt  
Senior Vice President - Power  
P. O. Box 26666  
Richmond, Virginia 23261

-2-

May 15, 1978

cc: Mrs. James C. Arnold  
P. O. Box 3951  
Charlottesville, Virginia 22903

Mr. Anthony Gambaradella  
Office of the Attorney General  
11 South 12th Street - Room 308  
Richmond, Virginia 23219

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211 Stribling Avenue  
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P. O. Box 1535  
Richmond, Virginia 23212

Mrs. June Allen  
1719 Meadowbrook Heights  
Charlottesville, Virginia 22901

Mr. James Torson  
501 Leroy  
Socorro, New Mexico 87801

Mrs. Margaret Dietrich  
Route 2, Box 568  
Gordonsville, Virginia 22942

William H. Rodgers, Jr., Esq.  
Georgetown University Law Center  
600 New Jersey Avenue, N.W.  
Washington, D. C. 20001

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Executive Vice President  
Sun Shipping & Dry Dock Company  
P. O. Box 540  
Chester, Pennsylvania 19013

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Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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Pepper, Hamilton & Scheetz  
123 South Broad Street  
Philadelphia, Pennsylvania 19109

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1700 Pennsylvania Avenue, N.W.  
Washington, D. C. 20006

Carroll J. Savage, Esq.  
1700 Pennsylvania Avenue, N. W.  
Washington, D. C. 20006

Mr. James C. Dunstan  
State Corporation Commission  
Commonwealth of Virginia  
Blandon Building  
Richmond, Virginia 23209

Mr. William Warren  
722 St. Christopher's Road  
Richmond, Virginia 23209

Michael C. Farrar, Esq.  
Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dr. Paul W. Purdom  
Department of Civil Engineering  
Drexel University  
32nd & Chestnut Streets  
Philadelphia, Pennsylvania 19104

Dr. John H. Buck  
Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Frederic J. Coufal, Esq.  
Atomic Safety and Licensing  
Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. R. B. Briggs  
Associate Director  
110 Evans Lane  
Oak Ridge, Tennessee 37830

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-338 & 50-339

VIRGINIA ELECTRIC AND POWER COMPANY

NOTICE OF PROPOSED ISSUANCE OF

AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-4, issued to Virginia Electric and Power Company (the licensee), for operation of the North Anna Power Station, Unit No. 1 located in Louisa County, Virginia.

The amendment would revise the provisions in the Technical Specifications to permit increase in fuel storage capacity from 400 to 966 fuel assemblies in the spent fuel pool of the North Anna Power Station, Unit No. 1 and Unit No. 2. The amendment would also revise design features and associated operating limits for the storage pool, as necessary, to accommodate the increased storage capacity, in accordance with the licensee's application for amendment, dated May 1, 1978. North Anna Power Station, Unit No. 2 is under construction and approximately 90% completed. The Technical Specifications issued with Facility Operating License NPF-4 for the North Anna Power Station, Unit No. 1 will also be used for North Anna Power Station, Unit No. 2 when the plant is operating.

Prior to issuance of the proposed license amendment, the Commission will have made the findings required by the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations.

By June 21, 1978, the licensee may file a request for a hearing and any person whose interest may be affected by this proceeding may file a request for a hearing in the form of a petition for leave to intervene with respect to the issuance of the amendment to the subject operating license. Petitions for leave to intervene must be filed in accordance with the provisions of this FEDERAL REGISTER notice and Section 2.714 of 10 CFR Part 2 of the Commission's regulations.\* A petition for leave to intervene must set forth with particularity the interest of the petitioner in the proceeding, how that interest may be affected by the results of the proceeding, including the reasons why petitioner should be permitted to intervene, and the specific aspect or aspects of the subject matter of the proceeding as to which petitioner wishes to intervene. Such petitions must be filed with the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Docketing and Service Section, by the above date. A copy of the petition and/or request for a hearing should be sent to the Executive Legal Director, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, and to Michael W. Maupin, Esq., Hunton, Williams, Gay & Gibson, P. O. Box 1535, Charlottesville, Virginia 23212, the attorney for the licensee.

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\* The provisions in this Notice conform to the requirements of 10 CFR § 2.714, as amended, effective May 26, 1978. 43 F.R. 17798 (April 26, 1978).

Not later than fifteen (15) days prior to the holding of the special prehearing conference pursuant to 10 CFR § 2.751a, or where no special prehearing conference is held, fifteen (15) days prior to the holding of the first prehearing conference, the petitioner shall file a supplement to his petition to intervene which must include a list of the contentions which petitioner seeks to have litigated in the matter, and the bases for each contention set forth with reasonable specificity.

All petitions will be acted upon by the Commission or licensing board, designated by the Commission or by the Chairman of the Atomic Safety and Licensing Board Panel. Timely petitions will be considered to determine whether a hearing should be noticed or another appropriate order issued regarding the disposition of the petitions.

In the event that a hearing is held and a person is permitted to intervene, he becomes a party to the proceeding and has a right to participate fully in the conduct of the hearing. For example, he may present evidence and examine and cross-examine witnesses.

For further details with respect to this action, see the application for amendment, dated May 1, 1978, which is available for public inspection

at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. 20555 and at the Board of Supervisors' Office, Louisa County Courthouse, P.O. Box 27, Louisa, Virginia 23093 and the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia 22901.

Dated at Bethesda, Maryland this <sup>15<sup>th</sup></sup> day of <sup>May</sup>, 1978.

FOR THE NUCLEAR REGULATORY COMMISSION

*Olan D. Parr*  
Olan D. Parr, Chief  
Light Water Reactors Branch No. 3  
Division of Project Management

APR 0 8 1976

~~Distribution:~~

Docket Files	HDenton
NRC PDR	DVassallo
Local PDR	AQRS (16)
LWR #5 File	ATOalston
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NDube	EHughes
MJinks (4)	TIC
RCDeYoung	<del>R</del> Geckler P. Leech
JSaltzman	PKrutzler
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RFerguson	TBAbernathy, DTIE
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BScott	NHGoodrich, ASLBP
WMiller	

Docket Nos. 50-338

50-339

Mr. W. L. Proffitt  
 Senior Vice President - Power  
 Virginia Electric & Power Company  
 P. O. Box 26666  
 Richmond, Virginia 23261

Dear Mr. Proffitt:

The Atomic Safety and Licensing Board's Partial Initial Decision dated October 30, 1974, Initial Decision dated December 5, 1975, and Order dated January 6, 1976 (copies sent to you previously) authorize the addition of certain environmental conditions to the construction permits for North Anna Power Station, Units 1 and 2. In this regard, enclosed are copies of Amendment 3 to Construction Permit No. CPPR-77 and Amendment No. 3 to Construction Permit No. CPPR-78. Also enclosed for your information is a copy of a related notice which has been sent to the Office of the Federal Register for publication.

Sincerely,

Original signed by  
**D. B. Vassallo**

D. B. Vassallo, Chief  
 Light Water Reactors Branch No. 5  
 Division of Project Management

Enclosures:

1. Amendment No. 3 to CPPR-77
2. Amendment No. 3 to CPPR-78
3. Notice

cc: See page 2

*PHL 3/19/76*

OFFICE ➤	DEM: LWR #5	DEM: LWR #5	DOB: PSB	SSEA	OELD	DPM: LWR #5
SURNAME ➤	JLee	ADromerick	RFerguson	HDenton	DSWANSON	DEVassallo
DATE ➤	3/19/76	3/17/76	3/17/76	3/1/76	3/29/76	4/18/76

APR 09 1976

Mr. W. L. Proffitt

- 2 -

cc: Mrs. James E. Arnold  
The Elms, Route 1  
Trevilians, Virginia 23170

Honorable Frederick S. Fisher  
Assistant Attorney General  
Commonwealth of Virginia  
1101 East Broad Street  
Richmond, Virginia 23219

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Hunton, Williams, Gay & Gibson  
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Richmond, Virginia 23212

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Charlottesville, Virginia 22901

Mr. James Torson  
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Ms. Margaret Dietrich  
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1700 Pennsylvania Avenue, N. W.  
Washington, D. C. 20006

Carroll J. Savage, Esquire  
1700 Pennsylvania Avenue, N. W.  
Washington, D. C. 20006

Ms. Susan T. Wilburn  
Commonwealth of Virginia  
Council on the Environment  
P. O. Box 790  
Richmond, Virginia 23206

Mr. Earl Ogg, Chairman  
Board of Supervisors  
of Louisa County  
Trevilians, Virginia 23170

Chief, TIRB (2)  
Technology Assessment Division  
Office of Radiation Programs  
U. S. Environmental Protection  
Agency  
Room 647A East Tower  
Waterside Mall  
401 M Street, S. W.  
Washington, D. C. 20460

Mr. Robert J. Blanco, Region III  
U. S. Environmental Protection  
Agency  
Sixth and Walnut Streets  
Philadelphia, Pennsylvania 19106

Mr. Bruch Blanchard, Director  
Environmental Projects Review  
Department of the Interior  
Room 5321  
18th and C Streets, N. W.  
Washington, D. C. 20240



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

VIRGINIA ELECTRIC AND POWER COMPANY

(North Anna Power Station, Unit No. 1)

DOCKET NO. 50-338

CONSTRUCTION PERMIT

Construction Permit No. CPPR-77  
Amendment No. 3

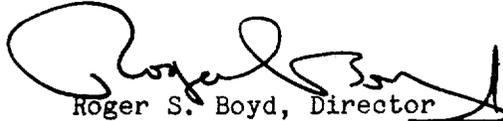
Pursuant to the Atomic Safety and Licensing Board's Partial Initial Decision dated October 30, 1974, Initial Decision dated December 5, 1975, and Order dated January 6, 1976, the Nuclear Regulatory Commission has issued Amendment No. 3 to Construction Permit No. CPPR-77 by adding paragraph 2.E to read as follows:

- E. This permit is subject to the following conditions for the protection of the environment:
- (1) The applicant's clearance of right-of-way in constructing the North Anna-Morrisville 500 kV line along the proposed route should be limited to 150 feet.
  - (2) The applicant shall maintain the right-of-way through the Rappahannock Wildlife Management Area in such a manner as to optimize the "edge effect," minimize the visual impact of the line, and be satisfactory to the Virginia Commission of Game and Inland Fisheries.
  - (3) The applicant shall, in traversing the Rapidan and Rappahannock Rivers, do a minimum of clearing of the right-of-way and utilize such other measures as are practical to minimize the visual impact of the line.
  - (4) The applicant shall continue and modify as necessary the radiological and nonradiological environmental monitoring programs described in Section 6 of the Final Environmental Statement.

- (5) As part of the monitoring program the applicant shall carry out comprehensive temperature monitoring of the waste heat treatment facility, Lake Anna and the North Anna River in the vicinity of North Anna Dam. This program shall include measurements of meteorological conditions and the reservoir water balance. The monitoring shall be implemented in a manner satisfactory to the Office of Nuclear Reactor Regulation and soon enough that predictions of natural lake temperatures can be verified over at least a one-year period prior to initial operation of North Anna Power Station, Unit No. 1. The results of this program shall be included in semi-annual reports to be issued within a reasonable time after preoperation. These reports shall compare actual temperature distribution with those predicted by the applicant's model for each six-month period until North Anna Power Station, Units 1 and 2 have completed one year of operation.
- (6) The applicant shall comply with applicable state water quality standards and other limitations, standards, regulations, and requirements established in accordance with the Virginia State Water Control Law.
- (7) The applicant shall endeavor to minimize the impacts of the transmission lines to be constructed from the facility and to include the following procedures:
  - (a) Retain and augment as necessary the vegetation at road and river crossings, homesites and major water bodies to screen the transmission lines.
  - (b) Change the alignment of transmission lines on both sides of major road crossings where vegetation will be inadequate to avoid long views down the right-of-way.
  - (c) Place the tower structures along the lower slopes in hilly terrain, rather than on the commonly visible high points, unless a long span is necessary that cannot otherwise be reasonably accomplished.

- (d) Control the application of herbicides to rights-of-way so as to prevent drift and apply no herbicides on rights-of-way over pasture, cropland and irrigation ditches or near water bodies, homes and recreation areas.
- (8) A control program shall be established by the applicant to provide a periodic review of all construction activities to assure that those activities conform with the environmental conditions set forth in this permit.
- (9) Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated in the Final Environmental Statement, the applicant shall provide written notification to the Office of Nuclear Reactor Regulation.
- (10) If unexpected harmful effects or evidence of irreversible damage are detected during facility construction, the applicant shall provide an acceptable analysis of the problem and a plan of action to eliminate or significantly reduce these harmful effects or this damage.

FOR THE NUCLEAR REGULATORY COMMISSION



Roger S. Boyd, Director  
Division of Project Management  
Office of Nuclear Reactor Regulation

Date of Issuance: April 9, 1976



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

VIRGINIA ELECTRIC AND POWER COMPANY

(North Anna Power Station, Unit No. 2)

DOCKET NO. 50-339

CONSTRUCTION PERMIT

Construction Permit No. CPPR-78  
Amendment No. 3

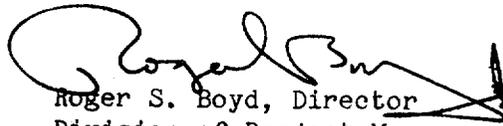
Pursuant to the Atomic Safety and Licensing Board's Partial Initial Decision dated October 30, 1974, Initial Decision dated December 5, 1975, and Order dated January 6, 1976, the Nuclear Regulatory Commission has issued Amendment No. 3 to Construction Permit No. CPPR-78 by adding paragraph 2.E to read as follows:

- E. This permit is subject to the following conditions for the protection of the environment:
- (1) The applicant's clearance of right-of-way in constructing the North Anna-Morrisville 500 kV line along the proposed route should be limited to 150 feet.
  - (2) The applicant shall maintain the right-of-way through the Rappahannock Wildlife Management Area in such a manner as to optimize the "edge effect," minimize the visual impact of the line, and be satisfactory to the Virginia Commission of Game and Inland Fisheries.
  - (3) The applicant shall, in traversing the Rapidan and Rappahannock Rivers, do a minimum of clearing of the right-of-way and utilize such other measures as are practical to minimize the visual impact of the line.
  - (4) The applicant shall continue and modify as necessary the radiological and nonradiological environmental monitoring programs described in Section 6 of the Final Environmental Statement.

- (5) As part of the monitoring program the applicant shall carry out comprehensive temperature monitoring of the waste heat treatment facility, Lake Anna and the North Anna River in the vicinity of North Anna Dam. This program shall include measurements of meteorological conditions and the reservoir water balance. The monitoring shall be implemented in a manner satisfactory to the Office of Nuclear Reactor Regulation and soon enough that predictions of natural lake temperatures can be verified over at least a one-year period prior to initial operation of North Anna Power Station, Unit No. 1. The results of this program shall be included in semi-annual reports to be issued within a reasonable time after preoperation. These reports shall compare actual temperature distribution with those predicted by the applicant's model for each six-month period until North Anna Power Station, Units 1 and 2 have completed one year of operation.
- (6) The applicant shall comply with applicable state water quality standards and other limitations, standards, regulations, and requirements established in accordance with the Virginia State Water Control Law.
- (7) The applicant shall endeavor to minimize the impacts of the transmission lines to be constructed from the facility and to include the following procedures:
  - (a) Retain and augment as necessary the vegetation at road and river crossings, homesites and major water bodies to screen the transmission lines.
  - (b) Change the alignment of transmission lines on both sides of major road crossings where vegetation will be inadequate to avoid long views down the right-of-way.
  - (c) Place the tower structures along the lower slopes in hilly terrain, rather than on the commonly visible high points, unless a long span is necessary that cannot otherwise be reasonably accomplished.

- (d) Control the application of herbicides to rights-of-way so as to prevent drift and apply no herbicides on rights-of-way over pasture, cropland and irrigation ditches or near water bodies, homes and recreation areas.
- (8) A control program shall be established by the applicant to provide a periodic review of all construction activities to assure that those activities conform with the environmental conditions set forth in this permit.
- (9) Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated in the Final Environmental Statement, the applicant shall provide written notification to the Office of Nuclear Reactor Regulation.
- (10) If unexpected harmful effects or evidence of irreversible damage are detected during facility construction, the applicant shall provide an acceptable analysis of the problem and a plan of action to eliminate or significantly reduce these harmful effects or this damage.

FOR THE NUCLEAR REGULATORY COMMISSION



Roger S. Boyd, Director  
Division of Project Management  
Office of Nuclear Reactor Regulation

Date of Issuance: April 9, 1976

VIRGINIA ELECTRIC AND POWER COMPANY

(North Anna Power Station, Units 1 and 2)

DOCKET NOS. 50-338 AND 50-339

NOTICE OF ISSUANCE OF AMENDMENT TO CONSTRUCTION PERMITS

Notice is hereby given that pursuant to the Atomic Safety and Licensing Board's Partial Initial Decision dated October 30, 1974, Initial Decision dated December 5, 1975, and Order dated January 6, 1976, the Nuclear Regulatory Commission has issued Amendment No. 3 to Construction Permit No. CPPR-77 and Amendment No. 3 to Construction Permit No. CPPR-78 issued to the Virginia Electric and Power Company for construction of the North Anna Power Station, Units 1 and 2 located in Louisa County, Virginia. The Board's Decisions and Order authorize the addition of certain conditions to the construction permits for the protection of the environment.

The Director of Nuclear Reactor Regulation has found that the provisions of the amendments comply with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations published in 10 CFR Chapter I and has concluded that the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

A copy of the (1) Partial Initial Decision dated October 30, 1974, (2) Initial Decision dated December 5, 1975, (3) Order dated January 6, 1976, (4) Amendment No. 3 to Construction Permit No. CPPR-77, (5) Amendment No. 3 to Construction Permit No. CPPR-78, and other related documents are

available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., at the Office of the County Administrator, Board of Supervisors, Louisa County Courthouse, Louisa, Virginia, and at the Alderman Library, Manuscripts Department, University of Virginia, Charlottesville, Virginia. A copy of items (1), (2), (3), (4) and (5) may be obtained by writing the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland this 9th day of April 1976.

FOR THE NUCLEAR REGULATORY COMMISSION



D. B. Vassallo, Chief  
Light Water Reactors Branch No. 5  
Division of Project Management