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RALEIGH, NORTH CAROLINA 27602
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FIRST VIRGINIA BANK TOWER
P. O. BOX 3889
NORFOLK, VIRGINIA 23514
804-625-5501

October 21, 1982

FILE NO.

DIRECT DIAL NO. 804 788-

Daniel T. Swanson, Esq.
U.S. Nuclear Regulatory
Commission
Washington, D.C. 20555

50-338
50-339

North Anna-to-Louisa Transmission Line

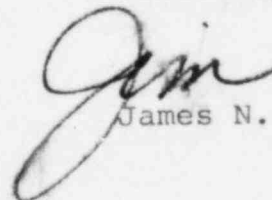
Dear Dan:

Enclosed is a copy of Vepco's "Application for Amendment to Certificate of Public Convenience and Necessity No. ET-117g" of December 30, 1981. This is the 1981 submission of Vepco to the Virginia State Corporation Commission involving the 230 kv transmission line from the North Anna Station to the substation near the town of Louisa, Virginia.

Also enclosed is the SCC's "Order Requiring Notice and Scheduling Hearing" of January 19, 1982. No hearing was held because nobody requested one. I also enclose the SCC's "Order Amending Certificate," dated March 23, 1982. Finally, I enclose a map of the transmission line, dated February 18, 1981.

With this, you have all the information that Vepco supplied the SCC on the environmental impact of the transmission line.

Sincerely,



James N. Christman

126/586
Enclosures
cc: Guy T. Tripp, III, Esq.

Aperture Card Dist

*Dist
Per PM*

*Drawing
TO: CF
H001
Add: NSIC*

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PDR ADOCK 05000338
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VIRGINIA:

STATE CORPORATION COMMISSION

APPLICATION OF VIRGINIA ELECTRIC
AND POWER COMPANY

For Approval of Electrical Facilities)
under § 56-46.1 of the Code of Virginia) Case No. _____
and for Approval of and Amendment to) Application No. 79
the Certificate of Public Convenience)
and Necessity for Such Facilities)
under the Utility Facilities Act.)

APPLICATION FOR AMENDMENT TO CERTIFICATE
OF PUBLIC CONVENIENCE AND NECESSITY NO. ET-117g

In support of its application Virginia Electric and Power Company (Vepco) respectfully shows the following:

1. On June 27, 1975, Vepco filed with the State Corporation Commission Application No. 79 for approval of facilities pursuant to § 56-46.1 of the Code of Virginia and the Utility Facilities Act. Application No. 79 proposed the construction of a 14.6 mile 230 kV transmission line from Vepco's North Anna Nuclear Power Station in Louisa County to a 230-34.5 kV substation to be built near the Town of Louisa.
2. On October 2, 1975, the Commission granted Vepco's application and issued Certificate No. ET-117g authorizing Vepco to construct and operate the proposed transmission line and substation. The substation site and about 50% of the

right-of-way for the line have been acquired, but construction has not begun.

3. The route of the authorized transmission line passes near the proposed Louisa County Industrial Air Park and airport site planned by Louisa County. The airport site is 500 feet south of and parallel to the authorized route of the transmission line.

4. In order to avoid a conflict with the proposed Louisa County Air Park and airport site, Vepco proposes to relocate 5.3 miles of the route of the transmission line. The relocation would increase the length of the transmission line by approximately 1.4 miles. Vepco also proposes to use H-frame structures instead of single pole structures on 12.2 miles of the line. H-frame structures will be, on average, between 15 and 20 feet shorter than single poles.

5. The following exhibits are attached to this Application:

A. Exhibit A, a Louisa County map, shows the route of the authorized transmission line and the proposed relocation.

B. Exhibit B describes the necessity for the relocated line.

C. Exhibit C describes the factors influencing the selection of the route relocating the authorized line.

D. Exhibits D-1 and D-2 show the type of structures proposed for the line. Exhibit D-3 offers a cost comparison estimate of H-structures and single pole structures.

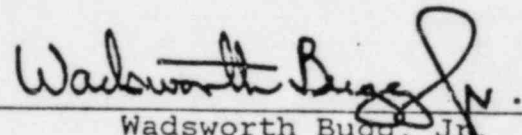
E. Exhibit E explains the methods of clearing and maintenance of the right of way for the proposed relocation.

F. Exhibit F sets forth a list of state agencies and local officials that may reasonably be expected to have an interest in the proposed relocation. Copies of the Application will be provided to them.

WHEREFORE, Vepco requests an amendment to Certificate No. ET-117g in order to relocate 5.3 miles of the transmission line route authorized in that certificate.

VIRGINIA ELECTRIC AND POWER COMPANY

By



Wadsworth Bugg, Jr.
Vice President

Guy T. Tripp, III
Darla B. Tarletz
Hunton & Williams
P. O. Box 1535
Richmond, Virginia 23212

Counsel for Applicant

STATE OF VIRGINIA)
) To-wit
CITY OF RICHMOND)

I, Melinda Pedroso, a notary public in and for the state and city aforesaid, hereby certify that this day appeared before me Wadsworth Bugg Jr., in the City of Richmond, who, first being duly sworn, made oath and said that he is Vice President of Virginia Electric and Power Company and as such duly authorized to execute and file the foregoing Application, and that the matters contained in such Application are true to the best of his knowledge and belief.

Given under my hand and notarial seal this 30th day of December, 1981. My commission expires 1-26-82.

Melinda Pedroso

Notary Public

NECESSITY STATEMENT
NORTH ANNA-LOUISA 230 KV TRANSMISSION LINE RELOCATION

The 5.3 mile route change and the use of H-frame structures proposed in this application for amendment do not affect the basic need for this line.

The original Application No. 79 granted by the Commission on October 2, 1975 in Case No. 11655 described the electrical needs to be supplied by the North Anna to Louisa 230 kV transmission line in conjunction with the conversion to 230 kV of the Louisa to Gordonsville 115 kV line (constructed for 230 kV operation). The original Application No. 79 also described the future plan to extend 230 kV transmission from Gordonsville on to Charlottesville. The electrical needs for the North Anna-Louisa-Gordonsville 230 kV line as stated in the original Application No. 79 included support for the loads along the Charlottesville to Remington 115 kV line, reinforcement of the supply to Charlottesville, two-way electrical supply for the Louisa area, and the provision of a 230 kV bulk power source at Gordonsville to be extended to reinforce the general electrical facilities in Central and Southside Virginia. These needs still exist and have become more critical with the load growth that has occurred since the original Application No. 79 was certificated. This load growth has been such that 115 kV reinforcement is no longer adequate to support Charlottesville area loads; it is now necessary to provide a means of continuing on to Charlottesville with 230 kV transmission as stated in the original application.

The Commission determined that the facilities described in Application No. 79 were necessary by issuing a certificate of convenience and necessity. The Commission's November 28, 1980 denial of the Company's Application No. 99 (Case No. PUE800006) for rebuilding the existing Charlottesville to Remington 115 kV to double circuit 230 kV construction makes it essential to proceed immediately with these facilities to meet the needs described in the Application.

FACTORS INFLUENCING THE AMENDED ROUTE OF
NORTH ANNA-LOUISA 230 KV TRANSMISSION LINE

Veeco proposes this alternate alignment to avoid a conflict with the proposed Louisa County airport site and to permit the orderly development of the Louisa County Industrial Air Park.

The proposed relocation departs the certificated route 0.3 mile south of Route 22 in Mineral Magisterial District. Extending southwestward over moderately contoured and forested terrain, the route crosses U. S. Route 33 approximately 0.6 mile east of Richardson High School and continues 0.2 mile beyond the highway. Angling northwest, the line crosses Route 644, 0.6 mile south of the junction of Routes 644 and 33. Turning more to the northwest and entering Louisa Magisterial District, 0.8 mile west of Route 33, the line intersects the alignment approved by the Commission. Exhibit A shows the authorized transmission line route and the proposed 5.3 mile relocation.

After the Commission issued a Certificate No. ET-117g for the North Anna-Louisa 230 kV transmission line and the Louisa Substation on October 2, 1975, Louisa County officials retained a consultant to study the development of an industrial area that would also incorporate a new airport. Work on that development continued and in the spring of 1980, Governor Dalton dedicated the Louisa County Industrial Air Park, which includes an airport site that is in conflict with the route of the North Anna-Louisa 230 kV line authorized in Certificate No. ET-117g.

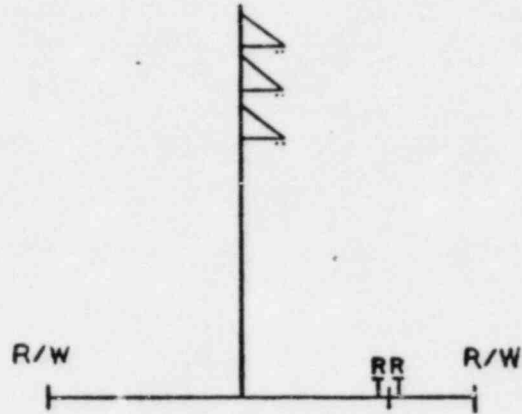
On July 24, 1980, Vepco representatives met with the Louisa County Industrial Authority and a representative of its consultant firm to discuss a proposed realignment of the transmission line route that would permit the development of the airport and would allow adequate horizontal separation between the ends of the runway and the transmission line. Vepco also informed the Authority of Vepco's intent to use H-structures on the relocated section of the route as well as on the remainder of the line (except for the first 3.8 mile section parallel to a railroad right-of-way where space is inadequate for H-frame structures). H-frame structures would be, 15 to 20 feet shorter than single pole structures, thus reducing scenic impact as well as potential hazard to aircraft. Such structures are also less expensive as shown on Exhibit D-3.

Another meeting was held with the Louisa County Board of Supervisors on October 6, 1980 and a field trip review of the proposed realignment was made with them on January 22, 1981. As a result of that field review, minor alignment changes were made in order to avoid a high school and a new subdivision which had been laid out.

The 5.3 mile relocation would require a 100-foot wide corridor and will embrace approximately 64.2 acres. About ninety-five percent of the route is located on forested land. The relocation increases the authorized transmission line route approximately 1.4 miles. The relocated route was selected to comply with the Federal Energy Regulatory Commission's (FERC)

routing guidelines Electric Power Transmission and the
Environment.

NORTH ANNA-LOUISA 230KV TRANSMISSION LINE



Typical tangent section looking southwest of the North Anna 230kV Switchyard toward Louisa Substation.

Type of Structure: Single Pole, Wood or Steel

Average Height : 80 Feet

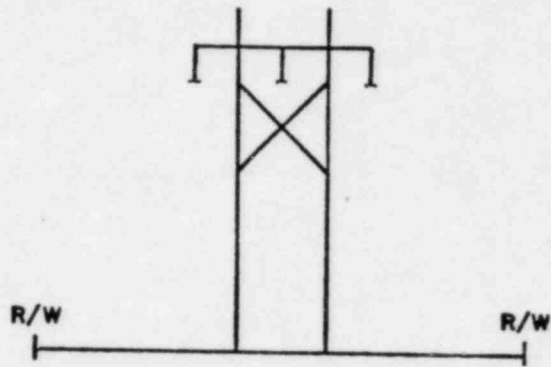
Width of Crossarms: 9 Feet

Average Span Length: 600 Feet

Conductors: Aluminum

Total Length of R/W This Type Construction: 3.8 Miles

NORTH ANNA-LOUISA 230kV TRANSMISSION LINE



Typical tangent section from a point 12.2 miles northeast of Louisa Substation looking southwest toward Louisa Substation.

Type Structure: Wood H-Frame

Average Height: 70 Feet

Width of Crossarms: 36 Feet

Average Span Length: 700 Feet

Conductors: Aluminum

Total Length of R/W, This Type Construction: 12.2 Miles

R/W Width: 100 Feet

ESTIMATED COST COMPARISON
NORTH ANNA-LOUISA 230 KV LINE RELOCATION

<u>Type of Construction</u>	<u>Length</u>	<u>Cost</u>
H-structures with single poles parallel to the railroad	16 miles	\$2,449,000
Single pole structures*	16 miles	\$4,320,000

* Because of Federal Aviation Administration height restrictions in the vicinity of the airport, the use of single pole structures in this area may be prohibited.

TRANSMISSION RIGHT-OF-WAY CLEARING
NORTH ANNA-LOUISA 230 KV LINE

The width of right-of-way required to be cleared is 100 feet. This width is necessary to provide adequate and safe clearance of the electric line. Special consideration will be given to selective clearing at Routes 33 and 644. Desirable plant material will be preserved at these crossings in order to help screen the transmission facility from public view.

The transmission line will be constructed, to the extent practical, in accordance with guidelines set forth by the Federal Power Commission in Appendix A, Docket No. R-364, Order No. 414 issued on November 27, 1970.

Clearing Methods

The right-of-way in wooded areas will be logged where practicable to conserve and utilize natural resources. Merchantable timber and pulpwood will be sold at local sawmills for processing if sufficient timber is available for this purpose. At certain locations, debris may be burned to improve the appearance of the right-of-way. Any disposal will be designed to leave the right-of-way in an acceptable condition. The disposal by burning, if approval is obtained from the State Air Pollution Control Board, will conform to the Board's rules.

Property owners will be encouraged to utilize the area for agricultural purposes and Vepco will contribute a maximum of \$125 an acre to convert woody brush areas to areas of permanent cultivation. Individual owners have the right to use this right-of-way for farming, grazing, and growth of

ornamental plants or Christmas trees. The owners control public access to their lands. The disturbed areas will be restored after construction. These locations will be disced, fertilized, and seeded to establish a ground cover. Such vegetation offers an attractive situation for wildlife habitat. Birds and mammals use the products of the "edge" for food supplies, and timber outside the right-of-way for shelter. The use of these transmission corridors for wildlife food will tend to increase game and wildlife habitat at a time when the number of small farms and open areas is being reduced.

Maintenance Program

The purpose of the right-of-way maintenance program will be to prevent interruptions to electric service and to provide for access to the rights-of-way in order to patrol and make emergency repairs. The methods used to achieve these objectives will be consistent with the land use pattern for the area.

The periodic maintenance to control woody growth will consist of hand cutting, machine mowing, and chemical treatment. Herbicides may be used on wooded areas to reduce the density of fast growing hardwood species to an acceptable level. Herbicides will not be used where the right-of-way is devoted to agricultural use. Herbicides used to control woody vegetation are registered with the Environmental Protection Agency and the Virginia Department of Agriculture. The rates used for these applications are recommended by the Agricultural

Extension Service of Virginia Polytechnic Institute and State University.

Gates will be installed at cross fences to provide access to transmission facilities and to prevent damage to the fences and roads of the property owners. The property owners may use these gates for entrance to their fields.

STATE AGENCIES AND COUNTY OFFICIALS THAT MAY HAVE INTEREST IN
THIS APPLICATION AND THAT WILL RECEIVE COPIES THEREOF

1. Department of Highways and Transportation
2. Historic Landmarks Commission
3. Council on the Environment
4. Commission of Outdoor Recreation
5. Department of Conservation and Economic Development
6. Virginia Department of Aviation
7. Louisa County

Commonwealth Attorney
Chairman, Board of Supervisors
Chairman, Planning Commission

AT RICHMOND, JANUARY 19, 1982

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JAN 19 12 29 PM '82

APPLICATION OF

VIRGINIA ELECTRIC AND POWER COMPANY

CASE NO. PUE810082
(Application No. 79)For approval of amendment to
Certificate of Public Convenience
and Necessity No. ET-117gORDER REQUIRING NOTICE AND SCHEDULING HEARING

On December 30, 1981, Virginia Electric and Power Company ("Company") filed an application with the Commission for approval of an amendment to Certificate of Public Convenience and Necessity No. ET-117g under Virginia Code §56-46.1 and the Utilities Facilities Act. Company's application states that a copy of that application has been sent to officials in the Department of Highways and Transportation, Historic Landmarks Commission, Council on the Environment, Commission of Outdoor Recreation, Department of Conservation and Economic Development, Virginia Department of Aviation and Louisa County.

NOW, THE COMMISSION, having considered the Company's application, finds that this case should be assigned a case number, that Company should give the public notice of its application and that a hearing should be scheduled for the purpose of receiving evidence relevant to said application; accordingly,

IT IS ORDERED:

- (1) That this matter be assigned Case No. PUE810082;
- (2) That any interested person who objects to the approval of the proposed amendment shall file his or her objection in writing with the Clerk of the Commission on or before March 15, 1982;
- (3) That, on or before March 15, 1982, any interested person desiring a hearing in this matter, shall file a request for a hearing in writing with the Clerk of the Commission;

(4) That, if any interested person requests a hearing, such hearing will be held before a Hearing Examiner at 10:00 a.m., July 1, 1982, in the Commission's Courtroom, Jefferson Building, Richmond, Virginia;

(5) That, on or before March 15, 1982, any interested person desiring to participate in this matter as a protestant, as defined in SCC Rule 4:6, shall file an original and fifteen copies of a notice of protest as provided in SCC Rule 5:16(a), and serve a copy upon Company (service upon Company should be directed to Guy T. Tripp, III, Hunton & Williams, P.O. Box 1535, Richmond, Virginia 23219);

(6) That, if a hearing is requested, Company file with the Commission, on or before April 15, 1982, an original and fifteen copies of the prepared testimony and exhibits Company intends to submit in support of its application, serving a copy upon each person filing a notice of protest;

(7) That, on or before June 1, 1982, each protestant file with the Commission an original and fifteen copies of a Protest (SCC Rule 5:16(b)) and an original and fifteen copies of the prepared testimony and exhibits that protestant intends to submit in support of its position and serve a copy of its testimony and protest upon the Company and other protestants in this case;

(8) That, on or before June 15, 1982, Company file with the Commission an original and fifteen copies of any rebuttal testimony and exhibits the Company intends to submit at the hearing;

(9) That, if no request for a hearing is received on or before March 15, 1982, a hearing will not be held and no testimony or exhibits shall be required to be filed;

(10) That, on or before February 15, 1982, Company cause the following to be published as display advertising, once a week for two consecutive weeks, in newspapers of general circulation in the area of the proposed transmission line route relocation:

NOTICE TO THE PUBLIC OF PROPOSED AMENDED ROUTE
OF A 230 KV ELECTRIC TRANSMISSION LINE
TO BE BUILT BY VIRGINIA ELECTRIC AND POWER COMPANY

Notice is hereby given to the public that Virginia Electric and Power Company ("Company") has filed with the State Corporation Commission an application for approval to amend Certificate of Public Convenience and Necessity No. ET-117g, which authorized the Company to construct and operate a 14.6 mile 230 kv transmission line from Company's North Anna power station in Louisa County to a 230-34.5 kv substation near the town of Louisa. The application proposes a realignment of the certificated transmission line route in the area of the Louisa County Industrial Air Park and the use of H-structures on 12.2 miles of the route.

The proposed realignment departs the certificate route 0.3 mile south of Route 22 in Mineral Magisterial District extending southwestward over moderately contoured and forested terrain, crosses U.S. Route 33 approximately 0.6 mile east of Richardson High School and continues 0.2 mile beyond the highway. Angling northwest, the line crosses Route 644, 0.6 mile south of the junction of Routes 644 and 33. Turning more to the northwest and entering Louisa Magisterial District, the line intersects the alignment approved by the Commission in Certificate No. ET-117g 0.8 mile west of Route 33. The total length of the route realignment is 5.3 miles and would increase the length of the presently certificated route by 1.4 miles with the result that the line after realignment would be 16 miles long.

All distances and directions cited above for the line realignment location purposes are approximate.

The public is further advised that the realignment the Commission ultimately may approve, pursuant to Virginia Code §56-46.1, may differ from the proposed route without further public notice.

The application and associated maps are on file and may be seen at the Commission's Document Control Center, Jefferson Building, Floor B1, Richmond, Virginia. This application also may be reviewed at the following offices of Virginia Electric and Power Company: Route 15 South, Orange, Virginia, and at Engineering and Services, 16th Floor, One James River Plaza, Richmond, Virginia.

The Commission has assigned this matter Case No. PUE810082 and has scheduled a hearing, if requested, at 10:00 a.m., July 1, 1982 in the Commission's Courtroom, 13th Floor, Jefferson Building, Bank and Governor Streets, Richmond, Virginia.

Any interested person who objects to the approval of the proposed amendment should file his or her objection in writing with the Clerk of the Commission on or before March 15, 1982.

Any interested person desiring a hearing in this matter shall file a request for a hearing with the Clerk of the Commission on or before March 15, 1982. If no request for a hearing is received, no hearing will be held.

Any interested person desiring to participate as a protestant as defined in SCC Rule 4:6, to present evidence and cross-examine witnesses, shall file an original and fifteen copies of a notice of protest pursuant to SCC Rule 5:16(a) with the Clerk of the Commission on or before March 15, 1982. A copy of such notice of protest shall be served upon counsel for the Company: Guy T. Tripp, III, Hunton & Williams, P.O. Box 1535, Richmond, Virginia 23219.

If a public hearing is held, a copy of the Company's prefiled testimony will be available on or before April 15, 1982, for public inspection at the locations where the application may be seen. On or before June 1, 1982, each protestant shall file an original and fifteen copies of the prepared testimony and exhibits that protestant intends to present at the hearing. A copy of such testimony and exhibits shall be served upon Company counsel and other protestants. The Company's rebuttal testimony will be filed on or before June 15, 1982.

Written comments on this matter should refer to Case No. PUE810082 and should be directed to:

William C. Young, Clerk
SCC Document Control Center
P.O. Box 2118
Richmond, Virginia 23216

VIRGINIA ELECTRIC AND POWER COMPANY

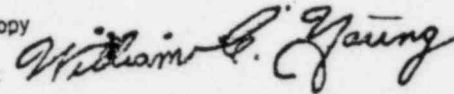
(11) That forthwith, the Company cause a copy of this order to be served upon each governmental official to which the Company sent a copy of the application herein; service shall be made by personal delivery at the customary place of business or residence of the person served, or shall be sent by certified mail, return receipt requested; and

(12) That the Company provide proof of the notice and service prescribed herein.

ATTESTED COPIES hereof shall be mailed to Guy T. Tripp, III, Hunton & Williams, P.O. Box 1535, Richmond, Virginia 23212; Anthony Gambardella, Assistant Attorney General, 101 North 8th Street, 5th Floor, Richmond, Virginia 23219 and the Commission's Division of Energy Regulation.

A True Copy

Teste:



Clerk of State Corporation Commission,

SCC-62-4-13M

MAR 23 11 51 AM '82

AT RICHMOND, MARCH 23, 1982

APPLICATION OF

VIRGINIA ELECTRIC AND POWER COMPANY

CASE NO. PUE810082
(Application No. 79)

For approval of amendment to
Certificate of Public Convenience
and Necessity No. ET-117g

ORDER AMENDING CERTIFICATE

On December 30, 1981, Virginia Electric and Power Company ("Company") filed an application with the Commission for approval of an amendment to Certificate of Public Convenience and Necessity No. ET-117g under Virginia Code 56-46.1 and the Utilities Facilities Act. Company's application states that a copy of the application has been sent to officials in the Department of Highways and Transportation, Historic Landmarks Commission, Council on the Environment, Commission of Outdoor Recreation, Department of Conservation and Economic Development, Virginia Department of Aviation and Louisa County.

By order entered January 19, 1982, the Commission reserved a hearing date and ordered that, if any interested person desired a hearing, a request for such hearing must be sent in writing to the Clerk of the Commission on or before March 15, 1982. In the same order, the Commission directed Company to serve a copy of the January 19, 1982, order upon the same governmental officials upon which Company's application was served and to publish a notice of its application in newspapers of general circulation in the area of the proposed transmission line relocation. On February 5, 1982, Company filed with the Clerk proof of service on governmental officials. On March 17, 1982, Company filed with the Clerk proof of publication as prescribed in the January 19, 1982 order.

On March 1, 1982, the Department of Conservation and Economic Development filed a memorandum in which it stated that it did not object to Company's request. No objections to the proposed amendment have been received by the Commission, nor have any requests for a hearing been received.

NOW, THE COMMISSION, having considered the record and the applicable law, finds that the corridor or route the line is to follow will reasonably minimize adverse impact on the scenic and environmental assets of the area concerned and should be approved; accordingly,

IT IS ORDERED:

(1) That Virginia Electric and Power Company be authorized, pursuant to §56-46.1 of the Code of Virginia, to construct a 230 kv transmission line from Company's North Anna Nuclear Power Station in Louisa County to a 230-34.5 kv substation to be built near the town of Louisa, as requested herein;

(2) That Certificate No. ET-117g, of Public Convenience and Necessity issued on October 2, 1975, be amended as requested in Company's application, filed December 30, 1981;

(3) That no hearing shall be held on July 1, 1982, in this case;

(4) That, there appearing nothing further to come before the Commission in this case, that this matter be dismissed from the docket, and the papers be placed in file for ended causes.

ATTESTED COPIES of this order shall be mailed to Guy T. Tripp, III, Hunton & Williams, P.O. Box 1535, Richmond, Virginia 23212; Anthony Gambardella, Assistant Attorney General, 101 North 8th Street, 5th Floor, Richmond, Virginia 23219 and the Commission's Division of Energy Regulation.

A True Copy

Teste:

William C. Young

Clerk of State Corporation Commission

DOCUMENT/ PAGE PULLED

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REASON

PAGE ILLEGIBLE

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BETTER COPY REQUESTED ON _____

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