

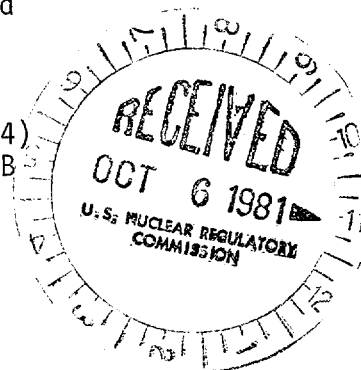
Dist.
Docket File

OCT 1 1981

Docket No.: 50-395

Mr. T. C. Nichols, Jr.
Vice President and Group Executive
Nuclear Operations
South Carolina Electric and Gas Company
P. O. Box 764
Columbia, South Carolina 29218

PDR
LPDR
OELD
DEisenhut
RPurple
RTedesco
BJYoungblood
I&E (3)
WKane
MRushbrook
TBarnhart (4)
RDiggs, LFMB
IDenitz
ACRS (16)



Dear Mr. Nichols:

Subject: Order Extending Construction Completion Date
(Virgil C. Summer Nuclear Station)

In response to your letter of November 26, 1980, the Nuclear Regulatory Commission has issued an Order extending the construction completion date for the Virgil C. Summer Nuclear Station. The referenced Order extends the construction completion date specified in CPPR-94 of December 31, 1980 to June 30, 1982.

A copy of the Order, the staff safety evaluation, negative declaration and environmental impact appraisal are enclosed for your information. The Order and the negative declaration have been transmitted to the Office of the Federal Register for publication.

Sincerely,

Original signed by
Darrell G. Eisenhut

D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Enclosures:
As Stated

ccs w/enclosures:
See next page

23

8111160441 811001
PDR ADDCK 05000395
A PDR

OFFICE	DL:LB#1	DL:LB#1	OELD	DL:LB#1	DL:LB#1	DL:DIR	
SURNAME	Wkane/ys	MRushbrook	BJYoungblood	BJYoungblood	RTedesco	DEisenhut	
DATE	9/2/81	9/2/81	9/10/81	9/2/81	9/30/81	10/1/81	

OCT 1 1981

Mr. T. C. Nichols, Jr.
Vice President & Group Executive
Nuclear Operations
South Carolina Electric & Gas Company
P. O. Box 764
Columbia, South Carolina 29218

cc: Mr. Henry Cyrus
Senior Vice President
South Carolina Public Service Authority
223 North Live Oak Drive
Moncks Corner, South Carolina 29461

J. B. Knotts, Jr., Esq.
Debevoise & Liberman
1200 17th Street, N. W.
Washington, D. C. 20036

Mr. Mark B. Whitaker, Jr.
Group Manager - Nuclear Engineering & Licensing
South Carolina Electric & Gas Company
P. O. Box 764
Columbia, South Carolina 29218

Mr. Brett Allen Bursey
Route 1, Box 93C
Little Mountain, South Carolina 29076

Resident Inspector/Summer NPS
c/o U. S. NRC
Route 1, Box 64
Jenkinsville, South Carolina 29065

Dr. John Ruoff
Post Office Box 96
Jenkinsville, South Carolina 29065

OCT 1 1981

Office of the Governor
Division of Administration
1205 Pendleton Street, 4th Floor
Columbia, South Carolina 29201

Attorney General
Box 11549
Columbia, South Carolina 29211

Mr. Heyward G. Shealy,
Chief Bureau of Radiological Health
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Chairman, Fairfield County Council
P. O. Box 216
Winnsboro, South Carolina 29180

OCT 1 1981

Mr. T. C. Nichols, Jr.
Vice President & Group Executive
Nuclear Operations
South Carolina Electric & Gas Company
P. O. Box 764
Columbia, South Carolina 29218

cc: Mr. Henry Cyrus
Senior Vice President
South Carolina Public Service Authority
223 North Live Oak Drive
Moncks Corner, South Carolina 29461

J. B. Knotts, Jr., Esq.
Debevoise & Liberman
1200 17th Street, N. W.
Washington, D. C. 20036

Mr. Mark B. Whitaker, Jr.
Group Manager - Nuclear Engineering & Licensing
South Carolina Electric & Gas Company
P. O. Box 764
Columbia, South Carolina 29218

Mr. Brett Allen Bursey
Route 1, Box 93C
Little Mountain, South Carolina 29076

Resident Inspector/Summer NPS
c/o U. S. NRC
Route 1, Box 64
Jenkinsville, South Carolina 29065

Dr. John Ruoff
Post Office Box 96
Jenkinsville, South Carolina 29065

OCT 1 1981

Office of the Governor
Division of Administration
1205 Pendleton Street, 4th Floor
Columbia, South Carolina 29201

Attorney General
Box 11549
Columbia, South Carolina 29211

Mr. Heyward G. Shealy,
Chief Bureau of Radiological Health
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Chairman, Fairfield County Council
P. O. Box 216
Winnsboro, South Carolina 29180

SOUTH CAROLINA ELECTRIC AND GAS COMPANY AND
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

VIRGIL C. SUMMER NUCLEAR STATION

DOCKET NO. 50-395

ORDER EXTENDING CONSTRUCTION COMPLETION DATE

South Carolina Electric and Gas Company and South Carolina Public Service Authority are the holders of Construction Permit No. CPPR-94 issued by the Atomic Energy Commission* on March 21, 1973 for the construction of the Virgil C. Summer Nuclear Station presently under construction at a site in Fairfield County, South Carolina. By letter dated November 26, 1980 the permittees filed requests for an extension of the latest construction completion date for the facility from December 31, 1980 to June 30, 1982, because construction has been delayed due to (1) the diversion of NRC Staff resources from normal review assignments on the application, among others, to TMI-related assignments and the associated reorganization of the NRC Staff, (2) increased quality control activities, rework due to these inspections, and delays in the installation of pipe hangers and supports, (3) additional work to implement plant modifications required as a result of reassessments made following the TMI accident, (4) turnover of systems to plant start-up for preoperational testing, because of such pacing factors as hanger rework and hydrostatic tests, (5) readying systems for full hydrostatic tests as required to code stamp ASME code piping systems, (6) completing stress analyses (which involve hangers) required by the ASME code, and (7) upgrading of the plant security system to meet NRC requirements.

OFFICE	*Effective January 20, 1975, the Atomic Energy Commission became the Nuclear Regulatory Commission and permits in effect on that day continued under the authority of the Nuclear Regulatory Commission.			
SURNAME				
DATE	8111160443 811001 PDR ADDCK 05000395 A			

NRC FORM 316 (10-75)

OFFICIAL RECORD COPY

☆ USGPO: 1980-329-824

This action involves no significant hazards consideration, good cause has been shown for the delay, and the requested extension is for a reasonable period, the bases for which are set forth in the NRC Staff Evaluation, dated September 30, 1981. The preparation of an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the Order other than that which has already been predicted and described in the Commission's Final Environmental Statement of the Virgil C. Summer Nuclear Station, published in May 1981. A Negative Declaration and an Environmental Impact Appraisal have been prepared and are available, as are the above stated documents, for public inspection at the Commission's Public Document Room 1717 H Street, N.W., Washington, D. C. 20555 and at the local public document room established for the Virgil C. Summer Nuclear Station in the Fairfield County Library, Garden and Washington Streets, Winnsboro, South Carolina 29180.

It is HEREBY ORDERED THAT the latest completion date for CPPR-94 be extended from December 31, 1980 to June 30, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
Darrell G. Eisenhut

D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

DATE OF ISSUANCE: OCT 1 1981

OFFICE	DL:LB#1	DL:LB#1	OELD	DL:LB#1	DL:LB#1	DL:DIR
SURNAME	W Kane/yt	MRusbrook	W Young	BJYoungblood	RLTedesco	DEisenhut
DATE	9/4/81	9/4/81	9/10/81	9/10/81	9/30/81	10/1/81

NEGATIVE DECLARATION

SUPPORTING: EXTENSION OF CONSTRUCTION PERMIT NO. CPPR-94

EXPIRATION DATE FOR THE

VIRGIL C. SUMMER NUCLEAR STATION

DOCKET NO. 50-395

The U. S. Nuclear Regulatory Commission (the Commission) has reviewed the South Carolina Electric & Gas Company and the South Carolina Public Service Authority (permittees) request to extend the expiration date of the construction permit for the Virgil C. Summer Nuclear Station (CPPR-94) which is located in Fairfield County, South Carolina. The permittees requested an extension of the permit to June 30, 1982 to allow for a reasonable period for completion of construction of the Virgil C. Summer Nuclear Station, and further allowance for contingencies.

The Commission's Division of Licensing (staff) has prepared an environmental impact appraisal relative to this change to CPPR-94. Based upon this appraisal, the staff has concluded that an environmental impact statement for this particular action is not warranted because pursuant to the Commission's regulations in 10 CFR Part 51, and the Council of Environmental Quality's Guidelines, 40 CFR 1500.6, the Commission has determined that this change to the construction permit is not a major federal action significantly affecting the quality of the human environment.

OFFICE							
SURNAME							
DATE							

8111160447 811001
PDR ADOCK 05000395
A PDR

The environmental impact appraisal is available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555; and at the Fairfield County Library, Garden and Washington Streets, Winnsboro, South Carolina 29201.

Dated at Bethesda, Maryland, this 30th day of September 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

15/

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

OFFICE	DL:LB#1	OELD	DL:LB#1				
SURNAME	W. E. /yt	M. Young	B. J. Youngblood				
DATE	9/4/81	9/10/81	9/10/81				

ENVIRONMENTAL IMPACT APPRAISAL

BY THE DIVISION OF LICENSING

SUPPORTING EXTENSION OF CONSTRUCTION PERMIT CPPR-94

VIRGIL C. SUMMER NUCLEAR STATION

DOCKET NO. 50-395

ENVIRONMENTAL IMPACT APPRAISAL

Description of Proposed Action

By letter dated November 26, 1981 the permittees, South Carolina Electric & Gas Company (SCE&G) and South Carolina Public Service Authority (SCPSA), filed a request with the Nuclear Regulatory Commission (NRC) to extend the completion date specified in Construction Permit No. CPPR-94 for the Virgil C. Summer Nuclear Station (Summer). The action proposed is the issuance of an order providing for an extension of the latest completion date of the construction permit from December 31, 1980 to June 30, 1982.

The Staff's Final Environmental Statement (FES) relating to the Virgil C. Summer Nuclear Station which was published in May 1981 determined a demonstrated need for the facility to ensure the reliability of the permittees' system in 1982 (particularly SCPSA) and to maintain acceptable regional reserve levels in case other units under construction are delayed. The original completion date as given in Construction Permit CPPR-94 for completion of construction of the project was January 1, 1978.

The permittees now plan to have the proposed unit in commercial operation by June 30, 1982. The permittees attribute the present delay to construction factors outside the permittees' control, including design modifications due to regulatory review. The revised completion date reflects a reasonable period for allowance of uncertainties in time estimation for completion of the project.

Environmental Impact of the Proposed Action

A. Need for the Station

The permittees are now scheduled to complete construction and begin operation of the facility by June 30, 1982. The staff in the Final Environmental Statement published in May 1981 has reassessed the need for the Virgil C. Summer Nuclear Station with respect to its planned operation in 1982.

OFFICE		8111160450 811001 PDR ADCK 05000395 A PDR				
SURNAME						
DATE						

As stated in Section 7.4 of the Final Environmental Statement, the staff concludes that timely operation of the nuclear unit will result in production cost savings through the reduction in consumption of the more expensive coal and oil fuel resources. The staff concludes that it is prudent for the utilities to operate the Virgil C. Summer Nuclear Station to ensure the reliability of their systems in 1982 (particularly SCPSA) and to maintain acceptable regional reserve levels in case other units under construction are delayed.

High state-wide population and economic growth in recent years, combined with an increasing proportion of energy use in the form of electricity, will result in a growth rate of electricity demand in South Carolina greater than that observed on the national scale. The staff finds that the Virgil C. Summer Nuclear Station will be useful in meeting the increased demand for electric energy.

B. Social and Economic Impacts

The Final Environmental Statement for the Virgil C. Summer Nuclear Station issued in May 1981 includes an assessment of potential environmental, economic and community impacts due to site preparation and plant construction. The only environmental impacts possibly resulting from the requested extension would be those due to transposing the impacts in time or extending the total time the regional community is subjected to temporary construction impacts. The staff concludes that environmental impacts associated with construction of the plant and described in the Final Environmental Statement i.e., housing, school facilities, and transportation are not affected by the proposed extension.

The remote location of the construction site results in the commuting of essentially the entire work force from larger towns in the region, such as Columbia and Greenville. The utility is disposed to maintain a reasonable continuity of work force which will have little or no economic impact on the local community or the larger nearby cities in terms of overall employment and aggregate tax revenues and expenses. Minor and temporary effects due to direct construction activities will be extended over the delayed construction period, however, no ill effects would be expected of significance.

Summary, Conclusion and Basis for Negative Declaration

The NRC staff has reviewed the total environmental effects which may result from the requested extension by the permittees of the latest completion date of the existing construction permit for the Virgil C. Summer Nuclear Station.

The permittees, because of design modifications and regulatory review beyond its control, has requested extension of the Construction Permit

OFFICE ▶							
SURNAME ▶							
DATE ▶							

from December 31, 1980 to June 30, 1982. The staff in conducting its assessment has concentrated principally upon possible impacts due to need for the station and socio-economic considerations as these factors are judged to be of the most relevance and importance in assessing any effect of plant delay.

On the basis of the NRC staff evaluation, it is concluded that there will be no environmental impact attributable to the proposed action other than that already predicted and described in the Commission's Final Environmental Statement issued in May 1981 and the Board's Initial Decision of March 19, 1973. Having made this conclusion, the Commission has further concluded that no environmental impact statement for the proposed action need be prepared, and that a negative declaration to this effect is appropriate. The subject change to the construction permit is judged not to be a major Federal action significantly affecting the quality of the human environment.

Dated: SEP 30 1981

OFFICE	DELB#1	DELB#1					
SURNAME	W Kane/yt	BJ Young Toood					
DATE	9/4/81	9/9/81					

EVALUATION OF REQUEST FOR EXTENSION OF
CONSTRUCTION PERMIT NO. CPPR-94
FOR THE VIRGIL C. SUMMER NUCLEAR STATION
DOCKET NO. 50-395

A. INTRODUCTION

South Carolina Electric and Gas Company and South Carolina Public Service Authority (the permittees) are the holders of Construction Permit No. CPPR-94 issued by the Atomic Energy Commission on March 21, 1973 for construction of the Virgil C. Summer Nuclear Station. The plant is presently under construction at a site located in Fairfield County, South Carolina approximately 26 miles north of Columbia, South Carolina. In accordance with Section 185 of the Atomic Energy Act of 1954, as amended, 42 U. S. C. Section 2235, and in accordance with the Commission's regulations, 10 CFR Section 50.55, the Construction Permit states the earliest and latest dates for the completion of construction. By letter dated November 26, 1980, the permittees advised the NRC staff that construction could not be completed by the latest date presently specified, namely December 31, 1980.

The permittees have therefore requested in the November 26, 1980 letter that the Construction Permit be extended to December 31, 1980. In accordance with 10 CFR Section 50.55 (b), the staff, having found good cause shown, and for the reasons stated below, is extending the latest completion date to June 30, 1982.

This evaluation contains the following Sections: Section B, the specification of "good cause" shown by the permittees for an extension, i.e., the specific delays which the permittees have cited in support of their request for an extension; Section C, the staff's independent judgment as to the "reasonable time" necessary from the present forward to compensate for each factor of delay; Section D, a finding as to significant hazards consideration, and Section E, a conclusion and recommendation for an Order.

OFFICE							
SURNAME							
DATE							

8111160453 811001
PDR ADDOCK 05000395
A PDR

B. Specified Delays

The permittees stated in the November 26, 1980 letter that the following factors led to the overall delay in the completion of construction of the facility.

1. The diversion of NRC Staff resources from normal review assignments on the Summer application, among others, to TMI-related assignments and the associated reorganization of the NRC Staff, have resulted in an extended Staff safety review schedule for Summer. In addition, the permittees did not receive certain questions which commonly lead to design changes during the operating license review process until much later in the process than is normal. As an example, there was no reactor systems branch reviewer assigned to the Summer review for over 15 months during the aftermath of TMI.
2. The construction schedule has been adversely affected by approximately five months by the increased quality control activities, rework due to these inspections, and delays in the installation of pipe hangers and supports. Additional quality control inspections were a result of a self-imposed program to assure that these hangers and supports meet design requirements.
3. A number of additions and modifications to design have been made late in the construction schedule to meet recent and changing NRC requirements in the aftermath of TMI. The construction schedule has been adversely affected approximately 12 months by the additional work to implement plant modifications required as a result of reassessments made following the TMI accident.
4. The construction schedule has been adversely affected approximately six months by delays in turnover of systems to plant start-up for preoperational testing, because of such pacing factors as hanger rework, noted in Item 2, and the hydrostatic tests, noted in Item 5.
5. The construction schedule has been adversely affected approximately six months by such problems as hanger rework, noted in Item 2, related to readying systems for full hydrostatic tests as required to code stamp ASME code piping systems.
6. The construction schedule has been adversely affected approximately six months by delays in completing stress analyses (which again involves hangers noted in Item 2) required by the ASME code.
7. The construction schedule has been adversely affected by six months by additional work to upgrade the plant security system to meet NRC requirements.

OFFICE							
SURNAME							
DATE							

C. REASONABLE COMPENSATION TIME

We concur with the applicant that the construction permit should be extended an additional 18 months to account for schedule delays and contingencies. We find that the overriding justification for this extension is the effect of the accident at TMI-2. We agree with the reasons given by the applicant for the impact of the accident on the schedule, i.e. lack of staff manpower in certain review areas and modifications due to the new requirements resulting from the accident. We acknowledge that schedule delays of at least six months would have occurred due to the other reasons cited by the applicant which are unrelated to the accident at TMI-2.

We have also examined the construction times for comparable commercial pressurized water reactors constructed during the same period. We find that the construction time for this facility is slightly above average but, nevertheless reasonable. Because of this and the above reasons, we find June 30, 1982 acceptable as the latest date for completion of construction for this facility.

D. SIGNIFICANT HAZARDS CONSIDERATION

We find that because the request is merely for an extension of time to complete work already reviewed and approved, no significant hazard consideration is involved in granting the request, thus prior notice of this action is not required.

E. CONCLUSION AND RECOMMENDATIONS

For the reasons stated herein, the staff concludes that issuance of an Order extending the latest construction completion date for construction of the Virgil C. Summer Nuclear Station, Construction Permit No. CPPR-94, to June 30, 1982 is reasonable and so ordered.

18
William F. Kane, Project Manager
Licensing Branch No. 1
Division of Licensing

51
B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Dated: SEP 20 1981

OFFICIAL STAMP	DL#1 Wkane/yt 9/4/81	DL#1 BJYoungblood 9/20/81					
-------------------	----------------------------	---------------------------------	--	--	--	--	--