

DEC 26 1978

Docket Nos. 50-369
and 50-370

Mr. William O. Parker, Jr.
Vice President, Steam Production
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Parker:

SUBJECT: EXTENSION OF CONSTRUCTION COMPLETION DATES
(William B. McGuire Nuclear Station, Units 1 and 2)

In response to your letters dated June 29 and November 7, 1978, the Nuclear Regulatory Commission has issued an Order extending the construction completion dates for the William B. McGuire Nuclear Station, Units 1 and 2. In lieu of the latest completion date of August 1, 1978, the construction completion date of Construction Permit No. CPPR-83 has been extended to April 30, 1979; in lieu of the latest completion date of August 1, 1979, the construction completion date of Construction Permit No. CPPR-84 has been extended to December 31, 1980.

A copy of the Order and the staff's evaluation are enclosed for your information. The Order has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by
Robert L. Baer, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Enclosures:

1. Order Extending Construction Completion Dates
2. Staff Evaluation
3. Negative Declaration
4. Environmental Impact Appraisal

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RAB E.K. 12/21

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OFFICE DES	w/enclosures:	DPM LWR #2	DPM:LWR #2	OELD	DPM:LWR #2
SURNAME >	See next page	JLee:ab	RABirke1	Ketchen	RLBaer
DATE >		12/1/78	12/1/78	12/21/78	12/26/78

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cc: Mr. W. L. Porter
Duke Power Company
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Charlotte, North Carolina 28242

Mr. R. S. Howard
Power Systems Division
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. E. J. Keith
EDS Nuclear Incorporated
220 Montgomery Street
San Francisco, California 94104

Mr. J. E. Houghtaling
NUS Corporation
2536 Countryside Boulevard
Clearwater, Florida 33515

Mr. Jesse L. Riley, President
The Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

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Mr. William O. Parker, Jr. - -

cc: Robert M. Lazo, Esq., Chairman
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Emmeth A. Luebke
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. Cadet H. Hand, Jr., Director
Bodega Marine Lab of California
P. O. Box 247
Bodega Bay, California 94923

Office of Intergovernmental Relations
116 West Jones Street
Raleigh, North Carolina 27603

County Manager of Mecklenburg County
720 East Fourth Street
Charlotte, North Carolina 28202

U. S. Environmental Protection Agency
ATTN: EIS Coordinator
Region IV Office
345 Courtland Street, N. E.
Atlanta, Georgia 30308

DUKE POWER COMPANY

WILLIAM B. MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

DOCKET NOS. 50-369 AND 50-370

ORDER EXTENDING CONSTRUCTION COMPLETION DATES

Duke Power Company is the holder of Construction Permit Nos. CPPR-83 and CPPR-84 issued by the Atomic Energy Commission* on February 28, 1973, for construction of the William B. McGuire Nuclear Station, Units 1 and 2 presently under construction at the Company's site on the shore of Lake Norman in Mecklenburg County, North Carolina.

In response to previous requests from Duke Power Company (the applicant), the Nuclear Regulatory Commission issued an Order on August 3, 1976 extending the latest date for completion of construction to August 1, 1978 for Unit 1 and August 1, 1979 for Unit 2. By letter dated June 29, 1978, the applicant filed a request for a second extension of the completion dates, and supplemented its request by submitting additional information on November 7, 1978. This extension was requested because construction has been delayed due to, among other things, pipe hanger problems, system changes, and preoperational testing.

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 a staff evaluation, dated

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*Effective January 20, 1975, the Atomic Energy Commission became the Nuclear Regulatory Commission and Permits in effect on that day were continued under the authority of the Nuclear Regulatory Commission.

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The preparation of an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the action authorized by the Order other than that which has already been predicted and described in the Commission's Final Environmental Statement - Operating License Stage for the McGuire facility, published in April 1976 and the Final Environmental Statement - Construction Permit Stage published in October 1972. 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 McGuire at the Public Library of Charlotte and Mecklenburg County, 310 North Tryon Street, Charlotte, North Carolina 28202.

IT IS HEREBY ORDERED THAT THE latest completion dates are extended for CPPR-83 from August 1, 1978 to April 30, 1979 and for CPPR-84 from August 1, 1979 to December 31, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:
Roger S. Boyd

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

Date of Issuance: December 26, 1978

*SEE PREVIOUS YELLOW FOR CONCURRENCE

DPM:LWR #2*
RABirke1
12/1/78

DPM:LWR #2
RLBaer
12/26/78

OFFICE >	DPM:LWR #2	ELD	DPM:LWR:AD	DSE*	DPM:DD	DPM
SURNAME >	JLee:ab	EKetchen	DBVallsa11e	SKeb1usek	DRoss	RSBoyd
DATE >	12/ /78	12/21/78	12/ /78	12/6/78	12/ /78	12/21/78

The preparation of an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the action authorized by the Order other than that which has already been predicted and described in the Commission's Final Environmental Statement - Operating License Stage for the McGuire facility, published in April 1976 and the Final Environmental Statement - Construction Permit Stage published in October 1972. 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 McGuire at the Public Library of Charlotte and Mecklenburg County, 310 North Tryon Street, Charlotte, North Carolina 28202.

IT IS HEREBY ORDERED THAT THE latest completion dates are extended for CPPR-83 from August 1, 1978 to April 30, 1979 and for CPPR-84 from August 1, 1979 to December 31, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance:

*SEE PREVIOUS YELLOW FOR CONCURRENCE

See marginal note above. E.K. 12/21/78

Ⓞ DPM:LWR #2* RABirkeL 12/1/78
 DPM:LWR #2 RLBaer 12/ /78

OFFICE	DPM:LWR #2	ELD E.K.	DPM:LWR:AD	DSE	DPM:DD	DPM
SURNAME	JLeeab	Ketchen	DBVassallo	SKeb1use WRegan	DFRoss	RSBoyd
DATE	12/4/78	12/21/78	12/ /78	12/6/78	12/ /78	12/ /78

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 for the McGuire facility, published in April 1976 and the ^{Final} Draft Environmental Statement published in October 1975. ^{operating license stage} 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 McGuire at the Public Library of Charlotte and Mecklenburg County, 310 North Tryon Street, Charlotte, North Carolina 28202.

IT IS HEREBY ORDERED THAT THE latest completion dates are extended for CPPR-83 from August 1, 1978 to April 30, 1979 and for CPPR-84 from August 1, 1979 to December 31, 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance:

^{ras}
 DPM:LWR #2 DPM:LWR #2
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 12/1/78 12/ /78

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SURNAME >	JLeesab		DBVassallo	SKeblusek	DFRoss	RSBoyd
DATE >	12/1/78	12/ /78	12/ /78	12/ /78	12/ /78	12/ /78

EVALUATION OF REQUEST FOR EXTENSION OF
PROVISIONAL CONSTRUCTION PERMITS NOS. CPPR-83 AND CPPR-84
FOR THE WILLIAM B. MCGUIRE NUCLEAR STATION, UNITS 1 AND 2
DOCKET NOS. 50-369 and 50-370

Introduction

On February 28, 1973, Duke Power Company (the applicant) was given authorization to begin construction of the William B. McGuire Nuclear Station, Units 1 and 2. Construction was to be completed by February 1, 1976 and March 1, 1977 for Units 1 and 2, respectively. In response to requests from the applicant, on August 3, 1976, the Commission issued an Order extending the latest dates for completion of construction to August 1, 1978 and August 1, 1979 for Units 1 and 2, respectively.

On June 29, 1978, the applicant requested a second extension of the construction completion dates, stating that its schedule for operation has been revised for various reasons. The applicant requested an extension of the construction completion dates from August 1, 1978, to January 15, 1979, for Unit No. 1 and from August 1, 1979, to October 15, 1980 for Unit No. 2. Subsequently, in its letter dated November 7, 1978, the applicant submitted information which discussed the details concerning the construction delays and preoperational testing changes, and requested a further extension until April 30, 1979 and December 31, 1980 for Units 1 and 2, respectively.

Discussion

Duke Power Company attributes the delay to (1) pipe hanger problems, (2) system changes, (3) and preoperational testing. Details concerning the delays are as follows:

- (1) In 1976, Duke Power Company terminated the contract with the contractor responsible for furnishing pipe support and restraint materials and for the design of some of the supports and restraints outside the reactor building; subsequently, Duke Power Company assumed these design and procurement responsibilities. In order to do so, however, the applicant had to increase its manpower. The applicant estimates that this problem caused a three to five-month delay in the overall schedule.

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- (2) Changes have been made in the design of the auxiliary feedwater system, fire protection system, and the containment isolation valves. Changes were made because of regulatory requirements, the desire for proper system operation, to allow for operational flexibility, and to correct deficiencies observed in preoperational testing. Specifically, changes in piping design were made to accommodate water hammer considerations and to insure the availability of water to auxiliary feedwater pumps. In connection with the fire protection program, approximately 30 hose stations were added and additional sprinklers, fire detection equipment, fire barriers, and emergency lighting was installed. Changes were made to the containment isolation valves following detection of a deficiency that precluded the valves from meeting the leakage acceptance criteria.
- (3) The applicant's letter of November 7 listed several preoperational tests that have experienced schedule delays. For example, the upper head injection system functional test was scheduled to be completed February 21, 1978 and was not completed until July 15, 1978. The auxiliary electric boiler test was scheduled to be completed February 1, 1978 but was not completed until October 1, 1978. Some of the other tests are still incomplete and have already experienced delays ranging from three to ten months.

The applicant stated that it has re-evaluated its construction and preoperational testing schedule for Unit 1 and that it has re-scheduled several critical path activities. As a result, the projected fuel loading date for Unit 1 is now February 1, 1979. Due to the change in the anticipated fuel load date and in order to allow for contingencies, construction completion dates should be extended to April 30, 1979 (Unit 1) and December 31, 1980 (Unit 2).

Conclusions

Based on our review of Duke Power Company's request, we concluded that the above factors are reasonable and that Duke Power Company has shown good cause for the delay in completion of the construction. Based on our evaluation of the causes for the delay, we have determined that the requested extension is for a reasonable period of time.

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As a result of our review of the McGuire Final Safety Analysis Report to date and considering the nature of the delays, we have identified no area of significant safety considerations in connection with the extension of the construction completion dates. In addition, we find that the only modification proposed by Duke Power Company to the existing construction permits is an extension of the construction completion dates which does not allow any work to be performed involving new safety information of a type not considered by a previous Commission safety review of the facility and that is not already allowed by the existing construction permits. Therefore, we find that (1) this action does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by extension of the construction completion dates, and (3) good cause exists for the issuance of an order extending the completion dates.

Accordingly, issuance of an order extending the latest completion dates for the construction of the William B. McGuire Nuclear Station, Unit No. 1 to April 30, 1979 and Unit No. 2 to December 31, 1980 is reasonable and should be authorized.

Original Signed By
R. A. Birkel

Ralph A. Birkel, Project Manager
Light Water Reactors Branch No. 2
Division of Project Management

Original signed by
Robert L. Baer

Robert L. Baer, Chief
Light Water Reactors Branch No. 2
Division of Project Management

Dated: December 26, 1978

OFFICE >	DPM: LWR #2	DPM: LWR #2	ELD	DPM: LWR #2	
SURNAME >	JLs:ab	RABirkel	Ketchen	RLBaer	
DATE >	12/1/78	12/1/78	12/21/78	12/24/78	

NEGATIVE DECLARATIONSUPPORTING: EXTENSION OF CONSTRUCTION PERMIT NOS. CPPR-83 AND CPPR-84EXPIRATION DATES FOR THEMCGUIRE NUCLEAR STATION, UNITS 1 AND 2DOCKET NOS. 50-369 AND 50-370

The U. S. Nuclear Regulatory Commission (the Commission) has reviewed Duke Power Company's (permittee) request to extend the expiration date of the construction permit for the McGuire Nuclear Station, Units 1 and 2 (CPPR-83 and CPPR-84) which is located in Mecklenburg County, North Carolina. The permittee requested a nine month extension for the Unit 1 permit to April 30, 1979, and a seventeen month extension for the Unit 2 permit to December 31, 1980, to allow for completion of construction of the McGuire plant.

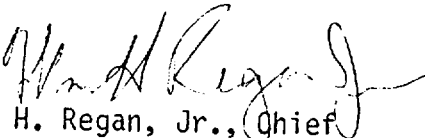
The Commission's Division of Site Safety and Environmental Analysis has prepared an environmental impact appraisal relative to this change to CPPR-83 AND CPPR-84. Based on this appraisal, the Commission has concluded that an environmental impact statement for this particular action is not warranted because there will be no environmental impact attributable to the proposed action other than that which has already been described in the Commission's Final Environmental Statement related to construction of McGuire Nuclear Station, Units 1 and 2, and the Commission's Final Environmental Statement related to operation of McGuire Nuclear Station, Units 1 and 2.

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The environmental impact appraisal is available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Public Library of Charlotte and Mecklenburg County, 310 North Tryon Street, Charlotte, North Carolina.

Dated at Bethesda, Maryland, this 26th day of December 1978.

FOR THE NUCLEAR REGULATORY COMMISSION


Wm. H. Regan, Jr., Chief
Environmental Projects Branch 2
Division of Site Safety and
Environmental Analysis

ENVIRONMENTAL IMPACT APPRAISAL
BY THE DIVISION OF SITE SAFETY AND ENVIRONMENTAL ANALYSIS
SUPPORTING EXTENSION OF CONSTRUCTION PERMITS CPPR-83 AND CPPR-84
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2
DOCKET NOS. 50-369 AND 50-370

ENVIRONMENTAL IMPACT APPRAISAL

Description of Proposed Action

By letters dated June 29, 1978 and November 7, 1978, the applicant, Duke Power Company, filed a request with the Nuclear Regulatory Commission (NRC) to extend the completion dates specified in Construction Permits CPPR-83 and CPPR-84 for the McGuire Nuclear Station, Units 1 and 2. The action proposed is the issuance of an order providing for an extension of the latest completion date of Construction Permit CPPR-83 from August 1, 1978 to April 30, 1979 and of Construction Permit CPPR-84 from August 1, 1979 to December 31, 1980. The NRC staff has reviewed the application and found that good cause has been shown for the requested extension of the completion dates specified in Construction Permits CPPR-83 and CPPR-84 for McGuire Nuclear Station, Units 1 and 2 (see attached Safety Evaluation by the NRC staff).

Environmental Impact of the Proposed Action

A. Need for Power

The McGuire Nuclear Station, Unit 1, is now scheduled to begin commercial operation in July, 1979, Unit 2 is now scheduled to begin commercial operation in March 1981. As part of the operating licensing review of this plant the staff has followed Duke's need for generating capacity. Examination of the most recent information regarding loads and resources indicates that the conclusion reached in the Final Environmental Statement - Operating License stage (FES-OL) published in April 1976 regarding need for this plant is still valid.

The overall staff's conclusion that the plant should be constructed is unaffected by the extension of the construction permits.

B. Community and Economic Impacts

The Final Environmental Statement - Construction Permit stage (FES-CP) for the McGuire Nuclear Station, Units 1 and 2 includes an assessment of potential environmental, economic and community impacts due to site preparation and plant construction.

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In addition, staff's discussions with individuals and local and State officials held at the time of preparation of the Final Environmental Statement - Operating License stage did not identify any substantial impacts on the surrounding community resulting from plant construction. The only effects possibly resulting from the requested extension would be those due to transposing the impacts in time or extending the total time the local community is subjected to temporary construction impacts. This in the staff's view will not result in any significant additional impact. The staff concludes that environmental impacts associated with construction of the plant described in the FES-CP, are not affected by the proposed extension. Thus, no significant change in impact is expected to result from the extension.

Conclusion and Basis for Negative Declaration

On the basis of the foregoing analysis and 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 FES-CP issued October 1972 and in the FES-OL issued in April 1976. 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.