

September 2, 1982

Docket No: 50-370

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Extension of Construction Completion Date
(William B. McGuire Nuclear Station, Unit 2)

Your letter of March 30, 1979, requested that the construction completion dates for the McGuire Nuclear Station, Units 1 and 2, be extended to December 31, 1979, for Unit 1 and December 31, 1981, for Unit 2. A letter dated November 30, 1979, requested that the construction completion dates be extended to December 1980 for Unit 1 and July 1982 for Unit 2. Subsequently, your November 26, 1980, letter requested that the construction completion dates be extended to June 30, 1981, for Unit 1 and June 30, 1983, for Unit 2. On January 23, 1981, an operating license was issued for Unit 1. We have reviewed your requests and issued the enclosed Order extending the construction completion date for Unit 2 (CPPR-84) to June 30, 1983.

A copy of the related staff evaluation is also enclosed for your information. The Order has been forwarded to the Office of the Federal Register for publication.

Sincerely,

S/
Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosures:

1. Order Extending Construction Completion Dates
2. Staff Evaluation

cc w/enclosures:
See next page

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McGuire

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

cc: Mr. A. Carr
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U.S. Nuclear Regulatory Commission,
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

DUKE POWER COMPANY

WILLIAM B. McGUIRE NUCLEAR STATION, UNIT 2

DOCKET NO. 50-370

ORDER EXTENDING CONSTRUCTION COMPLETION DATES

Duke Power Company is the holder of Construction Permit No. CPPR-84 issued by the Atomic Energy Commission* on February 28, 1973, for construction of the William B. McGuire Nuclear Station, Unit 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 permittee), the Nuclear Regulatory Commission issued Orders on August 3, 1976, and December 6, 1978, extending the latest date for completion of construction. By letters dated March 30 and November 30, 1979, and November 26, 1980, the permittee filed requests for another extension of the completion date. This extension was requested because a major portion of the construction effort was diverted from Unit 2 to completion of Unit 1 which is now operating. In addition, construction was delayed due to, among other things, pipe hanger problems, ice condenser activities, preoperational testing, environmental qualification modifications, modifications to other components/systems, and the impact due to the accident at Three Mile Island Unit 2.

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 of the request for extension.

The Commission has determined that this action will not result in any significant environmental impact, and pursuant to 10 CFR 51.5(d)(4), an environmental statement, or negative declaration and environmental impact appraisal, need not be prepared in connection with this action.

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The NRC staff safety evaluation of the request for extension of the construction permit is available 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 date is extended for CPPR-84 from December 31, 1980 to June 30, 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

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Robert A. Purple, Acting Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: September 2, 1982

No local inspection

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SAFETY EVALUATION OF REQUEST FOR EXTENSION OF

CONSTRUCTION PERMIT NO. CPPR-84

FOR THE WILLIAM B. MCGUIRE NUCLEAR STATION, UNIT 2

DOCKET NO. 50-370

INTRODUCTION

On February 28, 1973, Duke Power Company (the permittee) was given authorization to begin construction of the William B. McGuire Nuclear Station, Unit 2. Construction was to be completed by March 1, 1977. In response to requests from the permittee, the Commission issued Orders dated August 3, 1976, and December 26, 1978, extending the latest date for completion of construction.

On March 30, 1979, the permittee requested a third extension of the construction completion date, stating that its schedule for operation had been revised for various reasons. The permittee requested an extension of the construction completion date from December 31, 1980, to December 31, 1981. In its letter dated November 30, 1979, the permittee submitted information which discussed the details concerning the construction delays and requested a further extension until July 31, 1982. Subsequently, its November 26, 1980, letter requested an extension until June 30, 1983.

DISCUSSION

Duke Power Company attributes the delay to (1) diversion of construction effort from Unit 2 to Unit 1, (2) pipe hanger problems, (3) modifications resulting from the testing of components/systems, (4) preoperational testing, (5) ice condenser activities, (6) environmental qualification modifications, and (7) the impact due to the accident at Three Mile Island Unit 2.

- (1) A major portion of the construction effort was diverted from Unit 2 to expedite completion of Unit 1 which was issued an operating license on January 23, 1981, and is now operating.
- (2) The permittee is conducting a reinspection program for its 1200 design hangers to be erected for all of the Unit 2 design hangers not erected. This was done to alleviate problems arising from different interpretations of hanger tolerance specification and to comply with more stringent erection requirements. A program has been developed and implemented which requires "as built" sketching of the hanger prior to the inspection.

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- (3) The additional hanger work has required additional manpower and time and may have an impact on the testing of equipment in the future, including the diesel generator load sequencer, pressure operated relief valve and block valve, engineered safety features, and accumulator testing. The permittee stated that other modifications have been or will be made to the steam generator, liquid waste recycle system and waste gas system, upper head injection guard pipe, and personnel air lock doors.
- (4) An additional delay is caused by the limited hot functional testing program the applicant will perform. Hot functional tests have been completed for the majority of the testing required; however, the permittee plans to conduct another limited testing program on certain systems prior to fuel loading. This could be a critical path item.
- (5) Due to the sublimation rate of the ice in the ice condenser following the initial ice loading in Unit 1, the permittee decided to completely melt the ice and reload to substantially increase the weight of ice at the start of unit operations diverting manpower from Unit 2 activities. In addition, the permittee reported other modifications it made to reduce the sublimation previously experienced.
- (6) Components which are not environmentally qualified were either replaced or modified. This included identification of all components which should be environmentally qualified, determination of required modifications or need for replacement of components already identified, and completion of other identified modifications.
- (7) The permittee anticipates additional requirements for licensing will be imposed by the staff as a result of evaluation of the accident at Three Mile Island Unit 2. It expects these requirements may impact the issuance of operating licenses.

CONCLUSIONS

Based on our review of Duke Power Company's requests, 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.

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 date. In addition, we find that the only modification proposed by Duke Power Company to the existing construction permit is an extension of the construction completion date which does not allow any work to be performed involving new safety information of a type not

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considered by a previous Commission safety review of the facility and that is not already allowed by the existing construction permit. 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 date, and (3) good cause exists for the issuance of an order extending the completion date.

Accordingly, issuance of an order extending the latest completion date for the construction of the William B. McGuire Nuclear Station, Unit No. 2 to June 30, 1983, is reasonable and should be authorized.

Principal Contributor: Ralph Birkel, Licensing Branch No. 4, DOL

Dated: September 2, 1982

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September 2, 1982

EXTENSION OF CONSTRUCTION COMPLETION DATE MCGUIRE NUCLEAR STATION, UNIT 2

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