FROM: Wisconsin Public Service Corp.
Green Bay, Wisconsin 54305
E. W. James

DATE OF DOCUMENT: 1-27-71
DATE RECEIVED: 1-30-71
NO.: 421

LTR. x MEMO: REPORT: OTHER:

notarized 1-27-71

TO:

Dr. Peter A. Morris

ORIG.: 3 CC: 85 OTHER:

signed & conf'd

ACTION NECESSARY ☐ NO ACTION NECESSARY ☐
CONCURRENCE ☐ COMMENT ☐
DATE ANSWERED: BY:

CLASSIF: U
POST OFFICE REG. NO:

FILE CODE: 50-305 (IMPUT)

DESCRIPTION: (Must Be Unclassified)

Ltr(In Binder, Vol 1) notarized 1-27-71 trans the following:

ENCLOSURES:

AMDT # 7 consisting of:

FSAR - Volumes 1-2-3-4-5 (88 cys)

*ENVIRO RPT (150 cys)

REMARKS:

*NOTE: Enviro Rpt not included w/this distribution; See Mail Control # 241-A for Dist of Enviro Rpt.

Holding (16) cys for ACRS

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AEC PDR		~~Collins(2)~~	
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U.S. ATOMIC ENERGY COMMISSION

MAIL CONTROL FORM FORM AEC-326S (6-60)

☆ U.S. GOVERNMENT PRINTING OFFICE: 1970-382-148

WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 700, Green Bay, Wisconsin 54305

January 27, 1971

Regulatory File Cy.

Dr. Peter A. Morris, Director
Division of Reactor Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Subject: Amendment No. 7 (Final Safety Analysis Report) to the Application for Construction Permit and Operating License for Kewaunee Nuclear Power Plant
AEC Docket 50-305

Dear Dr. Morris:

The application for construction permit and operating license for the Kewaunee Nuclear Power Plant filed August 18, 1967 in AEC Docket 50-305 is hereby amended by submission of Amendment 7 for Kewaunee Nuclear Power Plant pursuant to Section 50.34 of 10 CFR 50. Said amendment consists of the Final Safety Analysis Report excluding the proposed technical specifications. These technical specifications will be submitted within one month of the date of this application.

The Final Safety Analysis Report analyzes the design of the unit for operation at the power level currently contemplated, 1650 MWt or the equivalent net electrical output of 540 MWe. Accordingly, it is requested that the design of the unit be reviewed for operation and power levels up to 1650 MWt and that the facility license be issued authorizing operation of the unit at such power level subject to the condition of such tests and demonstrations and the submission of such further reports as the Commission may deem appropriate.

In addition to three signed originals, 85 copies of this amendment are also submitted.

A certificate confirming service of Amendment No. 7 upon Mr. Donald L. Quistorff, Chairman Kewaunee County Board and Mr. Arden Koehler, Chairman, Town of Carlton, Kewaunee County, in which the Kewaunee Nuclear Power Plant is located, will be filed herein when an acknowledgement of receipt thereof has been obtained.

Wisconsin Public Service Corporation's "Environmental Report - Operating License Stage" for the Kewaunee Plant accompanies this amendment in accordance with Appendix D to 10 CFR 50 (Statement of General Procedure: Implementation of the National Environmental Policy Act of 1969 (Public Law 91-150)). One hundred-fifty (150) copies of this report are included.

Very truly yours,

WISCONSIN PUBLIC SERVICE CORPORATION

E. W. James, Senior Vice President
Power Generation & Engineering

SUBSCRIBED and SWORN to
before me this 27th day
of January, 1971.

Notary Public

My Commission Expires May 9, 1971

FROM: Wisconsin Public Service Corp
Green Bay, Wisconsin 54305
E. W. James

DATE OF DOCUMENT: 1-15-70
DATE RECEIVED: 1-22-70
NO.: 202

LTR. x MEMO: REPOR OTHER:

notarized 1-15-70

TO: Dr Peter A. Morris

ORIG.: 6 CC: OTHER: signed & 40 conf'd

ACTION NECESSARY ☐ NO ACTION NECESSARY ☐
CONCURRENCE ☐ COMMENT ☐
DATE ANSWERED BY:

CLASSIF: U
POST OFFICE REG. NO:

FILE CODE: 50-305

DESCRIPTION: (Must Be Unclassified)

Ltr containing suppl info & answers in response to our 2-24-69 ltr & meeting of 9-18-69 and trans:

ENCLOSURES:

New & Revised Pages to the PSAR

(40 cys rec'd)

REMARKS:

Holding (18) cys for ACRS

REFERRED TO	DATE	RECEIVED BY	DATE
Knuth w/4 cys for action	1-22-70		
DISTRIBUTION:			
Regulatory file AEC PDR			
Compliance (2) OGC (Rm P 506 A)		Case (Reading File)	
H. Price & Staff Dube/Levine		DTIE(Laughlin) NSIC(Buchanan)	
T. R. Wilson Boyd		AEC Hq Lib J-004	
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Dromerick (2)		202	fod

U.S. ATOMIC ENERGY COMMISSION **MAIL CONTROL FORM** FORM AEC-326S (8-60)

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WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 700, Green Bay, Wisconsin 54305

January 15, 1970

Regulatory File Cy.

Dr. Peter A. Morris, Director
Division of Reactor Licensing
UNITED STATES ATOMIC ENERGY COMMISSION
Washington, D. C. 20545

Dear Dr. Morris

Subject: Kewaunee Nuclear Power Plant
AEC Docket Number 50-305

As requested in your letter, dated February 24, 1969, and further meeting with your staff on September 18, 1969, we are transmitting the following supplementary information to the Facility Description and Safety Analysis Report:

1. Containment Design Features: The final design of the following features was highlighted for review (reference your letter dated, February 24, 1969):

   a. Piping penetrations, using the guard pipe.
   b. Seismic design of large penetrations, such as the steam-pipe and personnel airlock.
   c. Limitations on deformation of the Shield Building and connected system.
   d. Vacuum Relief Valves.

Answers to the above items are attached.

2. Tornado criteria for spent fuel: (reference your letter dated, February 24, 1969):

Answer to this question was reviewed with your staff at the September 18, 1969, meeting and the writeup is attached with this transmittal.

3. In addition to the above items requested in your letter dated February 24, 1969, we are transmitting the following supplementary information:

   a. Reclassification of Structures and Equipment:

Appendix-B, of the Facility Description and Safety Analysis Report, outlined special design procedures for the different classification of structures and components of the plant.

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In the Appendix-B, the Structures and Components were divided into two classes, Class I and Class II.

Class I was defined as (reference Appendix-B) those items which are essential to the safe shutdown and isolation of the reactor, or whose failure may cause, or increase the severity of a loss-of-coolant accident, or may result in an uncontrolled release of radioactivity.

Class II was defined as those items which are not essential to the safe shutdown and isolation of the reactor, or whose failure will not cause, or increase severity of a loss-of-coolant accident, or will not result in uncontrolled release of radioactivity.

Applicable Design Codes, Loads, Design Criteria, Structural Design basis etc. were all set forth in the Appendix-B.

The earthquake loads for Class II items were specified to be in accordance with the requirements of the uniform building code. This code specifies the location of the plant site to be in a "Zero" earthquake area. However, for Class II structures, which bear a relationship to plant safety, earthquake loads applicable to Zone I areas will be used in the analysis.

In essence Class II items as listed in the PSAR, consisted of two categories. The main difference being those that would receive seismic consideration (be designed for Zone I earthquake) and a large group of conventional equipment where earthquake design is not a consideration.

However, in the original PSAR Appendix-B, the two categories within Class II were not identified. In order to clearly establish our existing design basis, we have now expanded our classification to three classes and all items are clearly identified.

Appropriate revised pages and a reclassified list of structures and components in a tabular form, are attached to be inserted in the PSAR.

b. Electrical Changes:

Two basic changes have been made to increase the reliability of power to the safeguards equipment. These changes are in two areas: the number of sources supplying power to the safeguards buses and the manner of supplying diesel power to the safeguards buses.

Initially, two normal sources of power supply were provided to the safeguards buses with the diesel generators as the emergency source. We have since added a source of power from the 345/138 Kv substation stepdown transformer 13.8 Kv tertiary. The Tertiary Auxiliary Transformer, served by this tie to the tertiary, is rated to serve the total load on both safeguards buses.

Thus, we have three normal operating sources of power plus the diesel generator emergency source for each bus.

Appropriate revised sheets are attached to be inserted in the PSAR.

Yours very truly,

E. W. James, Vice President
Power Generation & Engineering

Subscribed and Sworn to, before me,

this 15th day of January 1970

O. R. Peterson

My Commission Expires May 9, 1971

done 2-13-70

INSTRUCTIONS FOR MAKING ADDITIONS OF SUPPLEMENTARY INFORMATION OF DECEMBER 31, 1969

This supplementary information of December 31, 1969 has been printed on cherry color sheets in order to identify it as new/revised information after insertion into the PSAR.

The following listing of material furnished as Supplementary Information of December 31,1969, will serve as a check list for entering the attached pages.

Enter the added pages or sections as listed. No pages are to be removed from the PSAR.

File this instruction sheet along with the cover letter in the front of Volume I as a record of additions.

1. Containment Design Features

   Insert the following new pages in Volume IV, Section 5:

   5.47-1 through 5.47-10. (12-31-69)

2. Tornado Criteria for Spent Fuel

   Insert the following new pages in Volume IV, Section 5:

   5.25a-1 through 5.25a-3 (12-31-69)

Enter	In Front of
8.3.1-5/8.3.1-6 (12-31-69)	8.3.1-5/Blank (1-2-68)
8.3.2-1 (12-31-69)/8.3.2-2 (1/2/68)	8.3.2-1/8.3.2-2 (1-2-68)
8.4.1-1/Blank (12-31-69)	8.4.1-1/8.4.1-2 (1-2-68)
8.4.2-1/8.4.2-2 (12-31-69)	8.4.2-1/8.4.2-1a (1-2-68)
8.4.3-1/8.4.3-2 (12-31-69)	8.4.3-1/Blank (1-2-68)
Figure 8-1 (12-31-68)	Figure 8-1 (5-3-68)
Figure 8-2 (12-31-68)	Figure 8-2 (5-3-68)
Figure 8-3 (12-31-69)	Figure 8-3 (5-3-68)

Insert the following page in Volume IV, Section 8:

8.2-1 (12-31-69)	8.2.-1 (1-2-68)

3. Other Items:

(a) Reclassification of Structures and Equipment (Appendix - B):
Enter the revised pages, listed in Column 1 below
ahead of the superseded pages listed in Column 2.

Enter	In Front of
B-i (12-31-69)	B-i (3-15-68)
B-1/B-2 (12-31-69)	B-1/B-2 (1-2-68)
B-3/B-4 (12-31-69)	B-3/B-4 (1-2-68)
B-5/B-6 (12-31-69)	B-5/B-6 (1-2-68)
B-7/B-8 (12-31-69)	B-7/B-8 (5-3-68)
B-9(Blank -(12-31-69)/B-10 (1-2-68)	B-9/B-10 (1-2-68)
B-11 (1-2-68)/B-12 (12-31-69)	B-11/B-12 (1-2-68)
B-13a/B13b (12-31-69)	None
B-13c/B-13d (12-31-69)	None
B-13e/B-13f (12-31-69)	None
B-13g/Blank (12-31-69)	None
B-31/B-32 (12-31-69	None

(b) Electrical changes (Section 8):

Enter	In Front of
8-i (12-31-69)	8-i (1-2-68)
8.1-1 (12-31-69)/Blank	8.1-1 (1-2-68)/Blank
8.2.1-1/8.2.1-2 (12-31-69)	8.2.1-1/8.2.1-2 (1-2-68)
8.2.2-1/8.2.2-2 (12-31-69)	8.2.2-1/8.2.2-2 (1-2-68)
8.3.1-1/8.3.1-2 (12-31-69)	8.3.1-1/8.3.1-2 (1-2-68)
8.3.1-3/8.3.1-4 (12-31-69)	8.3.1-3/8.3.1-4 (1-2-68)