

UNITED STATES  
ATOMIC ENERGY COMMISSION  
DIRECTORATE OF REGULATORY OPERATIONS  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

TELEPHONE  
(312) 858-2660

A. RO Inspection Report No. 050-305/73-28

Transmittal Date : January 14, 1974

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L:D/D for Fuels & Materials  
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B. RO Inquiry Report No. \_\_\_\_\_

Transmittal Date : \_\_\_\_\_

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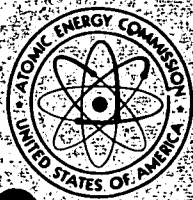
C. Incident Notification From: \_\_\_\_\_  
(Licensee & Docket No. (or License No.)

Transmittal Date : \_\_\_\_\_

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(312) 858-2660

JAN 14 1974

Wisconsin Public Service Corporation  
ATTN: Mr. E. W. James, Senior Vice President  
Power Generation and Engineering  
P. O. Box 1200  
Green Bay, Wisconsin 54305

Docket No. 50-305

Gentlemen:

This refers to the inspection conducted by Mr. Lonergan of this office on December 17 and 18, 1973, of activities at the Kewaunee Nuclear Power Plant authorized by AEC Construction Permit No. CPPR-50, and to the discussions held with Mr. C. R. Luoma and others of your staff at the conclusion of the inspection.

A copy of our report of this inspection is enclosed and identifies the areas examined during the inspection. Within these areas, the inspection consisted of a selective examination of procedures and representative records, interviews with plant personnel, and observations by the inspector.

No violations of AEC requirements were identified within the scope of this inspection. However, certain items pertaining to implementation of the KNPP Emergency Plan were identified as needing further action. These items are contained in Paragraphs 4, 5 and 6 of the Report Details Section of the enclosed inspection report. It is our understanding that appropriate action will be taken to resolve these matters. We will examine these actions during a subsequent inspection.

In accordance with Section 2.790 of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the AEC's Public Document Room. If this report contains any information that you or your contractors believe to be proprietary, it is necessary that you make a written application to this office, within twenty days of your receipt of this letter, to withhold such information from public disclosure. Any such application must include a full statement of the reasons for which it is claimed that the information is proprietary, and should be prepared so the proprietary information

Wisconsin Public Service  
Corporation

JAN 14 1974

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identified in the application is contained in a separate part of the document. Unless we receive an application to withhold information or are otherwise contacted within the specified time period, the written material identified in this paragraph will be placed in the Public Document Room.

No reply to this letter is necessary; however, should you have any questions concerning this inspection, we will be glad to discuss them with you.

Sincerely yours,

James C. Keppler  
Regional Director

Enclosure:

RO Inspection Rpt No. 050-305/73-28

cc: C. W. Giesler, Superintendent  
Nuclear Power, w/o/ encl

bcc: RO Chief, FS&EB  
RO:HQ (4)  
Licensing (4)  
DR:Central Files  
RO Files  
PDR  
Local PDR  
NSIC  
DTLE  
OGC, Beth, P-506A  
R. Renfrow, GC (2)

U. S. ATOMIC ENERGY COMMISSION  
DIRECTORATE OF REGULATORY OPERATIONS

REGION III

RO Inspection Report No. 050-305/73-28

Licensee: Wisconsin Public Service Corporation  
P. O. Box 1200  
Green Bay, Wisconsin 54305

Kewaunee Nuclear Power Plant  
Kewaunee, Wisconsin

License No. CPPR-50  
Category: B

Type of Licensee: PWR - 560 Mwe (W)

Type of Inspection: Special, Announced

Dates of Inspection: December 17 and 18, 1973

Dates of Previous Inspection: November 15-16, 1973  
(Emergency Planning)

Principal Inspector: G. T. Lonergan

*G. T. Lonergan*  
1/14/74  
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: *Jesse A. Pagliaro*  
Jesse A. Pagliaro

Senior Environmental Scientist

Environmental and Special Projects Section

1/14/74  
(Date)

## SUMMARY OF FINDINGS

Enforcement Action: None

### Licensee Action on Previously Identified Enforcement Items

No previously identified enforcement items within the scope of this inspection.

Unusual Occurrences: None

### Other Significant Findings

#### A. Current Findings

This inspection included a review of currently available approved emergency plan implementing procedures and a review of items remaining open from the emergency planning inspection of November 15 and 16. Commitments were made by representatives of KNPP on the following items which are more fully described in the Report Details portion of this report.

1. Completion of noise level survey in conjunction with balancing of Gai-Tronics to insure elimination of dead spots under operational noise levels. (Paragraph 4.b.(1))
2. Prepare approved issues and post instructions regarding the content and format of emergency related announcements. (Paragraph 4.b.(2))
3. Provide correct phone number in figure 3. of ACD 12.7 for requesting IRAP Assistance during normal waiting hours. (Paragraph 4.d.(2))
4. Locate portable air sample collection equipment and instrument for evaluating air samples in the SEC trailer. (Paragraph 4.e)
5. Completion and approval of RC-HP-17 entitled, Natural Disasters. (Paragraph 4.f)
6. Issuance of an approved revised implementing procedure RC-HP-20 entitled, Hospital Assistance Plan. (Paragraph 4.g.(1))
7. Placement of a portable radiation survey instrument on board the KNPP ambulance. (Paragraph 4.g.(2))

8. Placement of respiratory protective equipment lockers and radiation emergency kits. (Paragraph 5)
9. Placement of equipment and materials necessary for first aid and personnel decontamination. (Paragraphs 6.a and b)

#### Management Interview

A management interview was conducted with Messrs. Luoma, Richmond, Jarvela and Larson of the Kewaunee Nuclear Power Plant (KNPP) at the conclusion of the inspection on December 18, 1973. The inspector discussed the scope of the inspection (paragraph 2) and summarized the findings of this inspection (paragraphs 4, 5 and 6). Agreements reached in the management interview and a subsequent agreement reached via phone, on December 21, 1973, are described in the Report Details.

## REPORT DETAILS

### 1. Persons Contacted

C. R. Luoma, Plant Superintendent, KNPP  
J. S. Richmond, Technical Manager, KNPP  
G. L. Jarvela, Health Physics Supervisor, KNPP  
G. T. Larson, Radiation Chemistry Supervisor, KNPP

### 2. General

The inspection conducted December 17 and 18, 1973, by G. T. Lonergan (RO:III) included (1) an examination of the KNPP Emergency Plan Implementing Procedures developed to carry out the KNPP Emergency Plan; (2) a tour of certain facilities directly associated with the conduct of emergency operations; (3) a review and inspection of emergency equipment and its placement; (4) a review of the findings contained in RO Inspection Report No. 050-305/73-27.

3. The following emergency plan implementing procedures were reviewed and discussed with J. Richmond during the inspection.

<u>Procedure Number</u>	<u>Title</u>	<u>Approval Date</u>
ACD 12.1	Fire Emergency	11-27-73
ACD 12.2	Radiation Emergency	11-27-73
ACD 12.3	Site Emergency	11-27-73
ACD 12.4	Offsite Emergency	11-27-73
ACD 12.5	Personnel Accountability	11-27-73
ACD 12.6	Recovery and Re-entry	11-2-73
ACD 12.7	Plant Emergency Organization	11-14-73
RC-HP-1	Loss or Theft of Radio- active Material	11-14-73
RC-HP-3	On Site High Radiation	11-27-73

RC-HP-4	Environmental Monitoring (Abnormal)	11-27-73
RC-HP-5	Containment Vessel Evacuation Procedure	11-30-73
RC-HP-6	Unplanned Radioactive Release to an Unrestricted Area	11-27-73
RC-HP-7	Radioactive Spill	11-27-73
RC-HP-8	Clean Area Contamination Above Limits	11-20-72
RC-HP-9	Ingestion or Inhalation of Radioactivity	11-27-72
RC-HP-10	Fire Emergency and Fire Report	11-20-72
RC-HP-11	High Airborne Radioactivity	11-27-72
RC-HP-12	Liquid Radioactivity	11-27-72
RC-HP-13	Abnormal Dosimetry	11-20-72
RC-HP-14	Personnel Decontamination	11-20-72
RC-HP-16	Offsite High Radiation	12-28-72
RC-HP-17	Natural Disasters	12-28-72
RC-HP-20	Hospital Assistance Plan	11-13-73
RC-HP-33	Radiation Emergency Kits	12-12-72

4. The following contains a summary of agreements reached between the inspector and KNPP representatives as well as observations of the inspector during review and discussion of the emergency plan implementing procedures listed in item 3 above.

a. ACD 12.2 Radiation Emergency

Item 3.5 of this procedure contains a chart defining allowable direct radiation and surface contamination levels. The column pertaining to fixed surface contamination should state the alpha activity limits in terms of disintegrations per minute for a specified area.



b. Testing of the Gai-Tronics System and Format of Emergency Announcements

- (1) ACD 12.3, Site Emergency, defines the evacuation alarm as a rapidly pulsing tone (warble) on the plant Gai-Tronics system. according to Mr. Richmond the Gai-Tronics system has been approximately 95% balanced under current construction noise levels. Plans call for a complete noise level survey and balancing of the Gai-Tronics system to insure the elimination of dead spots and coverage of appropriate areas. KNPP representatives agreed to accomplish the above survey and balancing concurrent with the accomplishment of ST-6 which involves the initial operation of the feed water pumps.
- (2) It was also agreed to prepare, issue, and post instructions regarding the content and format of emergency related announcements to insure interspacing of verbal announcements with approved audible alarm signals.

c. Availability of Emergency Procedures at the SEC

ACD 12.4, Offsite Emergency, defines the action of the plant personnel during an offsite emergency. Item 5.3 states the requirements of the Site Emergency Director who is to proceed to the SEC. The inspector recommended that a collection of appropriate emergency plan implementing procedures and call lists be maintained at the SEC for use in emergencies.

d. Referencing of Procedures for Coping with Bomb Threats and Civil Disturbances and Listing of Contact Points for Requesting IRAP Assistance

- (1) ACD 12.7 entitled, "Plant Emergency Organizations," which was approved on December 14, 1973, makes reference to Section II of the Administrative Control Directives which in turn describes the actions to be taken by the Security Director and others in the event of a bomb threat or civil disturbance.
- (2) Figure 3 on page 6 of ACD 12.7 entitled, "Notification Order In Event of Incident," contains an incorrect daytime phone number for the contact to the Chicago Operations Office, AEC.

The phone number for the Chicago Operations Office for normal working hours should read (312) 739-7711, Ext. 2111. The number currently listed in this ACD for offshift hours

is correct. In a telephone conversation on December 21, 1973, between Mr. Richmond and Mr. Lonergan, Richmond agreed to make the above change and issue the revised figure 3 prior to criticality.

- (3) The inspector pointed out that the responsibility for notification of the Interagency Radiological Assistance Regional Coordinator lies with the Chicago Operations Office of the AEC. Therefore the block in Figure 3 entitled, "Interagency Radiological Assistance Regional Coordinator," should be deleted.

e. Availability of Equipment and Instrumentation in the SEC Trailer

RC-HP-4, Environmental Monitoring (Abnormal), provides for the collection of water, air, soil and vegetation samples. KNPP representatives agreed to locate in the SEC trailer two additional portable air samplers capable of field operation and instrumentation capable of evaluating air samples prior to attainment of criticality.

f. Completion of RC-HP-17, Natural Disasters

RC-HP-17 approved December 28, 1972, provides guidance for response during natural disasters. Within this procedure, several implementing procedures are referenced by name and/or number. It was noted that several of the identifying numbers throughout this procedure were left blank. KNPP representatives agreed to complete this procedure prior to the attainment of criticality by referencing the appropriate procedure numbers throughout RC-HP-17.

g. Revision of RC-HP-20, Hospital Assistance Plan and Placement of a Portable Radiation Survey Instrument in the KNPP Ambulance

- (1) The Hospital Assistance Plan identified by RC-HP-20 is currently under revision. KNPP representatives agreed to complete the revision of RC-HP-20 and issue an approved version prior to the attainment of criticality.
- (2) It was also agreed that an operable portable radiation detection instrument (an E-530) would be located and maintained on board the KNPP ambulance prior to fuel loading.

5. Placement of Respiratory Protective Equipment Lockers and Radiation Emergency Kits

In discussion with KNPP representatives it was learned that respiratory protective equipment lockers will be located

with the radiation emergency kits throughout the plant. It was agreed in the management interview following the inspection that respiratory protective equipment lockers and radiation emergency kits will be placed in service in accordance with the locations listed in RC-HP-33, dated December 12, 1972, prior to the attainment of criticality.

6. Placement of Materials and Equipment Necessary for First Aid and Personnel Decontamination

KNPP representatives agreed to accomplish the following two items prior to fuel loading:

- a. The First Aid Room will be stocked with supplies and equipment necessary to provide first aid services.
- b. Materials necessary for decontamination of personnel will be stocked in or near the personnel decontamination shower facility adjoining the first aid room.