

April 17, 1989

Docket Nos. 50-266
and 50-301

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Mr. C. W. Fay, Vice President
Nuclear Power Department
Wisconsin Electric Power Company
231 West Michigan Street, Room 308
Milwaukee, Wisconsin 53201

Dear Mr. Fay:

SUBJECT: AMENDMENT NOS. 118 AND 121 TO FACILITY OPERATING LICENSE NOS. DPR-24
AND DPR-27 (TAC NOS. 51550/51551)

The Commission has issued the enclosed Amendment Nos. 118 and 121 to Facility Operating License Nos. DPR-24 and DPR-27 for the Point Beach Nuclear Plant, Unit Nos. 1 and 2. The amendments revise the Technical Specifications in response to your application dated April 19, 1983 and modified by letters dated April 13, 1984, September 7, 1984, July 14, 1988, and March 22, 1989.

These amendments change the technical specifications by modifying certain fire protection sections to include recently-installed systems or to be consistent with Standard Technical Specifications, NUREG-0452.

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

/s/

Warren H. Swenson, Project Manager
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 118 to DPR-24
2. Amendment No. 121 to DPR-27
3. Safety Evaluation

cc w/enclosures:

See next page

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Date: 4/10/89	4/11/89	4/10/89	4/11/89

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PDR ADOCK 05000266
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CP-1 cc

Mr. C. W. Fay
Wisconsin Electric Power Company

Point Beach Nuclear Plant
Units 1 and 2

cc:

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

WISCONSIN ELECTRIC POWER COMPANY

DOCKET NO. 50-266

POINT BEACH NUCLEAR PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 118
License No. DPR-24

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Wisconsin Electric Power Company (the licensee) dated April 19, 1983, modified April 13, 1984, September 7, 1984, July 14, 1988, and March 22, 1989 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

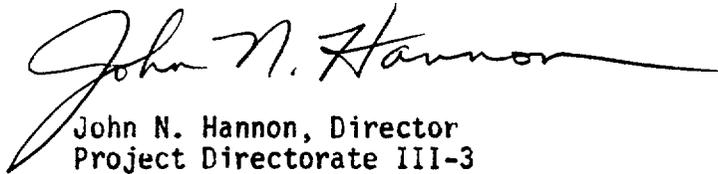
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-24 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 118, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective immediately upon issuance. The Technical Specifications are to be implemented within 20 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 17, 1989



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

WISCONSIN ELECTRIC POWER COMPANY
DOCKET NO. 50-301
POINT BEACH NUCLEAR PLANT, UNIT NO. 2
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 121
License No. DPR-27

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Wisconsin Electric Power Company (the licensee) dated April 19, 1983, modified April 13, 1984, September 7, 1984, July 14, 1988, and March 22, 1989 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

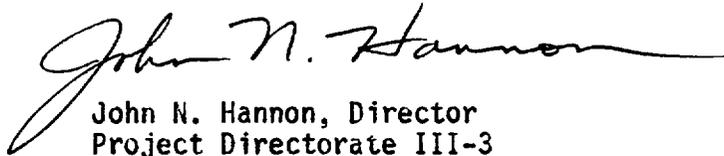
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Facility Operating License No. DPR-27 is hereby amended to read as follows:

B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 121, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective immediately upon issuance. The Technical Specifications are to be implemented within 20 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 17, 1989

ATTACHMENT TO LICENSE AMENDMENT NOS. 118 AND 121
TO FACILITY OPERATING LICENSE NOS. DPR-24 AND DPR-27
DOCKET NOS. 50-266 AND 50-301

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by amendment number and contain marginal lines indicating the area of change.

REMOVE

15.3.14-1
15.3.14-2
15.3.14-3
-
-
Table 15.3.14-1
15.4.15-1
15.4.15-2
15.4.15-3
15.6.9-5

INSERT

15.3.14-1
15.3.14-2
15.3.14-3
15.3.14-4
15.3.14-5
Table 15.3.14-1
15.4.15-1
15.4.15-2
-
15.6.9-5

15.3.14 FIRE PROTECTION SYSTEM

Applicability

Applies to the fire protection components which provide fire protection capability for equipment required for safe plant shutdown at all times when those systems are required to be operable.

The provisions of Specification 15.3.0 are not applicable to these specifications.

Objective

To specify the requirements for fire protection components which would be employed to mitigate the consequences of fires which could affect equipment required for safe plant shutdown.

Specification

A. Fire Suppression Water System

1. Fire Main Loop Water Supply

- a. Both fire pumps shall be operable; or
- b. One fire pump may be inoperable provided that the second fire pump is tested to demonstrate operability and is tested once every 24 hours thereafter; or
- c. Both fire pumps may be inoperable provided that a backup fire main loop water supply is operable within 24 hours.
- d. If a, b, or c cannot be fulfilled, both reactors shall be placed in hot standby within the next 6 hours and in cold shutdown within the following thirty (30) hours.

2. Water Sprinkler System

- a. The water sprinkler systems listed in Table 15.3.14-1 shall be operable whenever equipment protected by the system is required to be operable.
- b. A water sprinkler system listed in Table 15.3.14-1 may be inoperable provided that:

(1) Within one hour of determining that one or more of the above required spray and/or sprinkler systems are inoperable, for those areas in which redundant systems or components could be damaged, establish an hourly fire watch inspection and provide backup fire suppression capability. For other areas, establish an hourly fire watch inspection. Restore the system to operable status within 14 days or, in lieu of any other report required by Specification 15.6.6, prepare and submit a special report pursuant to Specification 15.6.9.2.F.

3. Fire Hose Stations

- a. Fire hose stations for the areas listed in Table 15.3.14-1 shall be operable whenever equipment in the areas protected by the fire hose stations is required to be operable.
- b. Within one hour of determining that one or more of the fire hose stations shown in Table 15.3.14-1 are inoperable, route backup water suppression capability or provide portable fire suppression capability to the unprotected area(s). Restore the fire hose station to operable status within 14 days or, in lieu of any other report required by Specification 15.6.6, prepare and submit a special report pursuant to Specification 15.6.9.2.F.

4. Halon Gaseous Suppression Systems

- a. The Halon Gaseous suppression systems listed in Table 15.3.14-1 shall be operable whenever equipment protected by the Halon system is required to be operable.
- b. One supply source of Halon for the gaseous suppression systems in Table 15.3.14-1 may be inoperable provided that within one hour of determining the condition, fire hose station suppression capability for the affected area is provided.
- c. Both supply sources of Halon for the gaseous suppression systems listed in Table 15.3.14-1 may be inoperable provided that:

(1) Within 1 hour of determining the condition an hourly fire watch inspection is established and that backup fire

suppression capability is provided for those areas in which redundant systems or components could be damaged; for other areas, establish an hourly fire watch inspection. Restore the system to operable status within 14 days or, in lieu of any other report required by Specification 15.6.6, prepare and submit a special report pursuant to Specification 15.6.9.2.F.

B. Fire Detection

1. Fire Detection Systems

- a. The fire detection system components for each area listed in Table 15.3.14-1 shall be operable whenever equipment protected by the fire detection components is required to be operable.
- b. The control room annunciation for the fire detection system may be inoperable provided that within one hour of determining the condition, the area control panels for each area listed in Table 15.3.14-1 are surveilled hourly.
- c. Area control panels for the areas listed in Table 15.3.14-1 may be inoperable provided that:
 - (1) Within one hour of determining that the area control panel is inoperable, the affected area is inspected to assure that potential fire hazards are minimized;
 - (2) Activity in the affected area is restricted to that which is necessary for continued operation;
 - (3) A fire watch inspection is performed in the affected area hourly.
- d. For each area listed in Table 15.3.14-1 which is not protected by a Halon gaseous suppression system:
 - (1) A single detection device may be inoperable.
 - (2) As long as at least 75% of an area's detection devices remain operable, multiple non-adjacent detection devices may be inoperable.
 - (3) More than 25% of an area's detection devices or multiple adjacent detection devices may be inoperable provided that:

- (a) Within one hour of determining that the detection devices are inoperable, the affected area is inspected to assure that potential fire hazards are minimized;
 - (b) Activity in the affected area is restricted to that which is necessary for continued operation;
 - (c) A fire watch inspection is performed in the affected area hourly.
- e. For each area listed in Table 15.3.14-1 which is protected by Halon gaseous suppression system, any number of detection device(s) may be inoperable provided that:
 - (1) Within one hour of determining that the detection device(s) are inoperable, the affected area is inspected to assure that potential fire hazards are minimized;
 - (2) Activity in the affected area is restricted to that which is necessary for continued operation;
 - (3) A fire watch inspection is performed in the affected area hourly.
- f. Restore the inoperable instrument(s) to operable status within 14 days or, in lieu of any other report required by Specification 15.6.6, prepare and submit a special report pursuant to Specification 15.6.9.2.F.

C. Fire Barriers

1. Fire Barrier Penetration Seals

- a. All fire barrier penetration seals protecting safety-related areas shall be operable.
- b. A fire barrier penetration seal may be inoperable provided that:
 - (1) Within one hour of determining that the fire barrier penetration seal is inoperable, the immediate area on each side of the fire barrier is inspected to assure that potential fire hazards are minimized;

- (2) Activity in the immediate area on each side of the fire barrier is restricted to that which is necessary:
 - (a) For continued operation;
 - (b) To enable restoration of penetration seal operability.
- (3) A fire watch inspection shall be performed on each side of the fire barrier hourly.
- (4) Restore the inoperable fire barrier to operable status within 7 days or, in lieu of any other report required by Specification 15.6.6, prepare and submit a special report pursuant to Specification 15.6.9.2.F.

Basis

The overall fire protection program at Point Beach Nuclear Plant utilizes the principles of defense in depth. This includes early warning fire detection and redundant fire suppression capability. Collectively, these measures ensure equipment operability, provide adequate capability to prevent and minimize damage to safety-related equipment, and allow safe plant shutdown in the event of a fire occurrence. Should a portion or component of the fire protection system be inoperable, these specifications provide assurance that redundant methods of fire protection are readily available and that the capability to mitigate the consequences of a fire is maintained.

**TABLE 15.3.14-1
SAFE SHUTDOWN AREA FIRE PROTECTION**

AREA	ELEVATION	AUTOMATIC SUPPRESSION		MANUAL SUPPRESSION	
		WATER SPRINKLER SYSTEM	GAS SUPPRESSION SYSTEM	FIRE HOSE STATION	FIRE DETECTION
1. Auxiliary Building South	8'	(X) Partial		X	15
2. Auxiliary Building Center A. Safety Injection Pumps B. Component Cooling Water Pump	8'	X X		X	13
3. Auxiliary Building North	8'	(X) Partial		X	9
4. Auxiliary Building West	8' and Below			X	16
5. Auxiliary Building South	26'			X	3
6. Auxiliary Building Center	26'			X	17
7. Auxiliary Building North	26'			X	7
8. Auxiliary Building Center	46'			X	6
9. Auxiliary Feedwater Pump Room	8'		X	X	11
10. Vital Switchgear & Battery Room	8'		X	X	8
11. G01 Diesel Generator Room	8'	X		X	4
12. G02 Diesel Generator Room	8'	X		X	4
13. Cable Spreading Room	26'		X	X	17
14. Circulating Water Pumphouse A. Service Water Pumps	8'	X		X	15

15.3.14-6

Unit 1 - Amendment No. 118
Unit 2 - Amendment No. 121

15.4.15 FIRE PROTECTION SYSTEM

Applicability

Applies to the periodic inspection and testing requirements of fire protection equipment specified in Section 15.3.14.

Objective

To verify the operability of fire protection system components.

Specification

A. Fire Suppression Systems

1. Fire Main Loop Water Supply

<u>Test</u>	<u>Frequency</u>
a. Flowpath valve position verification	Monthly
b. Fire pump functional test	Monthly
c. Fire pump capacity test	Yearly
d. Diesel driven fire pump engine	
(1) Fuel volume verification	Monthly
(2) Diesel fuel sample analysis	Quarterly
(3) Periodic inspection	18 months
e. Diesel driven fire pump battery and charger	
(1) Battery voltage verification	Weekly
(2) Electrolyte level	Weekly
(3) Electrolyte specific gravity	Quarterly
(4) Periodic inspection	18 months

2. Water Sprinkler Systems

a. Flowpath valve position verification	Monthly
b. Inspector's test	Yearly
c. Visual header and nozzle inspection	18 months

3. Fire Hose Stations

a. Visual inspection	Monthly
b. Hose Hydrostatic test	2 years
c. Valve cycle test	3 years

4. Halon Gaseous Suppression Systems

	<u>Test</u>	<u>Frequency</u>
	a. Halon quantity verification	6 months
	b. Functional test	Yearly
	c. Visual header and nozzle inspection	Yearly
B.	Fire Detection	
	1. Fire Detection System	
	a. Channel functional test	6 months
C.	Fire Barriers	
	1. Fire Barrier Penetration Seals	
	a. Visual inspection	18 months

Basis

Normally, the fire protection is not in use. However, the system components are required to perform as designed in the event of a fire emergency. The National Fire Protection Association and the plant insurance carrier have specified periodic tests and inspections to demonstrate fire protection equipment operability. The listed tests and inspection are based upon the requirements of these organizations. Testing more frequently than that listed is not considered necessary to ensure operability and performance.

D. Failure of Containment High-Range Radiation Monitor

A minimum of two in-containment radiation-level monitors with a maximum range of 10^8 rad/hr (10^7 /hr for photons only) should be operable at all times except for cold shutdown and refueling outages. This is specified in Table 15.3.5-5, item 7. If the minimum number of operable channels are not restored to operable condition within seven days after failure, a special report shall be submitted to the NRC within thirty days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status.

E. Failure of Main Steam Line Radiation Monitors

If a main steam line radiation monitor (SA-11) fails and cannot be restored to operability in seven days, prepare a special report within thirty days of the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the channel to operable status.

F. Fire Protection System Degradation

Degradation of fire protection systems or components as described in Specification 15.3.14 which renders the system inoperable shall be the subject of a special report, prepared and submitted within 30 days. The report will outline the action taken, the cause of the inoperability, and the plans and schedule for restoring the system to operable status.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NOS. 118 AND 121 TO
FACILITY OPERATING LICENSE NOS. DPR-24 AND DPR-27

WISCONSIN ELECTRIC POWER COMPANY
POINT BEACH NUCLEAR PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-266 AND 50-301

1.0 INTRODUCTION

In a letter dated April 19, 1983 and modified by letters dated April 13, 1984, September 7, 1984, July 14, 1988, and March 22, 1989, Wisconsin Electric Power Company (the licensee) proposed to change the plant Technical Specifications for the Point Beach Nuclear Plant, Unit Nos. 1 and 2. These changes would modify the fire protection sections to include recently-installed systems or to be consistent with Standard Technical Specifications, NUREG-0452.

2.0 EVALUATION

The licensee requested an amendment to the fire protection sections of the Technical Specifications for Point Beach Nuclear Plant, Unit Nos. 1 and 2, to include recently-installed systems or to be consistent with Standard Technical Specifications, NUREG-0452.

As a result of the submittals, the licensee requested that Technical Specification section 15.3.14 be modified. Some administrative modifications would delete the wording "operable at rated capacity" and insert "operable" instead. Operable as defined in the Technical Specifications includes performance of function as defined in the Final Safety Analysis Report, which describes the component function and rated capacity. Another administrative modification would change pump operability requirements from once per day to once every 24 hours.

Initially, the proposed Table 15.3.14-1 would identify existing hose stations and additional water sprinkler systems. In the April 13, 1984 submittal, the licensee proposed (1) to define safe shutdown areas; (2) to include fire hose station availability in all areas; and (3) to remove the numerical reference to a specific number of detectors in each area. The September 7, 1984 submittal further revised this table to include a newly added sprinkler system in specified areas. However, in conformance with Standard Technical Specifications and after staff review, Table 15.3.14-1 was modified again in the July 14, 1988 submittal. This submittal reinstated the number of fire detectors required to be operable in each safe shutdown fire area. A March 22, 1989 submittal corrected typographical errors on Table 15.3.14-1.

Initially, the licensee proposed to relax the time period to achieve cold shutdown with an inoperable fire main loop water supply from 30 hours to 48 hours. The April 13, 1984 submittal deleted this requirement in its entirety. After staff review, the licensee reinstated the requirement for reactor shutdown in the July 14, 1988 submittal. The reinstated specification requires hot standby in 6 hours and cold shutdown in the subsequent 30 hours. This is in conformance with Standard Technical Specifications.

The licensee would administratively modify the specifications to add new limiting conditions for operation for new automatic suppression systems and fire detection and barrier systems. The licensee initially proposed to relax the fire watch patrol from once per hour to twice per shift. However, upon staff review and to conform with Standard Technical Specifications, the April 13, 1984 submittal returned the fire watch patrol to once per hour rather than twice per shift.

A qualification was added at the beginning of section 15.3.14 which stated that the provisions of section 15.3.0 are not applicable. A similar qualification is found in Standard Technical Specifications. The limiting condition for operation was qualified with the statement that the fire protection systems must be operable whenever the equipment protected by the system is required to be operable. This is an expansion of the present operability requirements.

The licensee requested that Technical Specifications section 15.4.15 be modified. The administrative modifications would add surveillance requirements for new automatic suppression and fire detection and barrier systems. The surveillance requirements were revised to reflect the requirements of a wet pipe rather than a dry pipe system. Test frequencies for fire hose station hydrostatic tests and fire detection tests have been modified to be consistent with the National Fire Protection Association (NFPA) codes.

Where the licensee made changes to conform to the Standard Technical Specifications (i.e., fire hose station, hose hydrostatic test frequency, fire pump testing requirements, and detector functional test requirements), the proposed changes reflect the requirements of the NFPA codes. While the proposed test frequencies may be less than the existing plant Technical Specifications, they are in conformance with the Standard Technical Specifications and NFPA codes and do not represent a reduction in plant safety. There were several areas where it appeared the proposed changes did not provide for surveillance requirements as identified in the Standard Technical Specifications. These include the lack of a 3-year fire water system flush, valve cycle requirements, and fire door inspection requirements. In the July 14, 1988 letter, the licensee stated that these surveillance requirements are present in existing plant procedures. Additionally, the licensee stated that they intend to remove fire protection surveillance requirements from their Technical Specifications per Generic Letter 86-10;

and, therefore, it is not necessary to include these surveillance requirements in the current plant Technical Specifications. The existing surveillance provisions were discussed with the licensee by telephone on August 11, 1988 and were found to adequately address the requirements of Standard Technical Specifications.

Finally, the licensee would add a unique reporting requirement under a new specification within section 15.6.9. Degradation of fire protection systems or components as described in 15.3.14 which render the systems inoperable shall be the subject of a special report, prepared and submitted within 30 days. This is in conformance with Standard Technical Specifications.

A technical report prepared by a contractor for the NRC, entitled "Evaluation of Fire Protection Technical Specifications Changes Point Beach Units 1 and 2" (SAIC-88/1812), concluded that the proposed modifications to the Technical Specifications were due to the licensee adding newly-installed systems, or providing clarification or attempting to bring the existing Technical Specifications in agreement with the Standard Technical Specifications, NUREG-0452. The evaluation concluded that the proposed changes to the fire protection specifications were acceptable. The contractor's report was reviewed by the staff and the staff concurs with the report's conclusions.

Based upon the information presented, the staff concludes that the proposed changes to the fire protection Technical Specifications, as presented in the letters dated April 19, 1983, April 13, 1984, September 7, 1984, July 14, 1988, and March 22, 1989, are acceptable and are in conformance with 10 CFR Part 50, Appendix R.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or change inspection or surveillance requirements. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously published a proposed finding that these amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR §51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

4.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations, and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Lawrence E. Kokajko

Dated: April 17, 1989