



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

PURDUE UNIVERSITY

DOCKET NO. 50-182

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 7
License No. R-87

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Purdue University (the licensee), dated May 24, 1982, as supplemented on August 16, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as 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;
 - 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; and
 - F. Publication of notice of this amendment is not required since it does not involve a significant hazards consideration, nor amendment of a license of the type described in 10 CFR Section 2.106(a)(2).

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility License No. R-87 is, hereby, amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 7 are, hereby, incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Cecil O. Thomas

Cecil O. Thomas, Acting Chief
Standardization & Special
Projects Branch
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: OCT 5 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 7

FACILITY LICENSE NO. R-87

DOCKET NO. 50-182

Revise Appendix A Technical Specifications as follows:

Remove Page

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Insert Page

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Changes on the revised pages are identified by marginal lines.

TABLE I. SAFETY CHANNELS REQUIRED FOR OPERATION

<u>Channel</u>	<u>Minimum Number Required</u>	<u>Setpoint</u>	<u>Function</u>
Log count rate and period	1 ^(a)	2 cps	2.cps rod withdrawal interlock
		12 sec. period	Setback
		7 sec. period	Slow scram
Log N and period	1 ^(b)	12 sec. period	Setback
		7 sec. period	Slow scram
		7 sec. period	Fast scram
		120% power	Slow scram
Linear	1	110% range	Setback
		120% range	Slow scram
Safety	1 ^(b)	110% power	Setback
		120% power	Fast scram
Manual Scram (console)	1		Slow scram
(hallway)	1		Slow scram

(a) Not required after Log N-Period channel comes on scale.

(b) Required to be operable but not on scale at startup.

TABLE II. SAFETY-RELATED CHANNELS (AREA RADIATION MONITORS)

<u>Channel</u>	<u>Minimum Number Required</u> (c)	<u>Setpoint</u>	<u>Function</u>
Pool top monitor	1	50 mR/hr or 2x full power background	Slow scram
Water process	1	7½ mR/hr	Slow scram
Console monitor	1	7½ mR/hr	Slow scram
Continuous air sampler	1		Air sampling

(c) For periods of time, not to exceed 12 hours of operation, a radiation monitor may be replaced by a gamma sensitive instrument which has its own alarm or is observable by the reactor operator.

- 6.4.4 Emergency conditions involving potential or actual release of radioactivity, including provisions for evacuation, re-entry, recovery, and medical support.
- 6.4.5 Maintenance procedures which could have an effect on reactor safety.
- 6.4.6 Experiment installation, operation, and removal.
- 6.4.7 Implementation of the Security Plan and Emergency Plan.

Non-routine operations which require the sequential performance of a series of sub-tasks shall be carried out with the written procedure at the console. To assure adherence to the documentation of the procedure, each step will be entered in the log book as it is completed.

Substantive changes to the above procedures shall be made only with the approval of the CORO. The Reactor Supervisor may make changes to procedures which do not change the intent of the original procedure. All such changes to the procedures shall be documented and subsequently reviewed by CORO.

6.5 Operating Records

- 6.5.1 The following records and logs shall be prepared and retained for at least five years:
 - a. Normal facility operation and maintenance.
 - b. Reportable occurrences.
 - c. Tests, checks, and measurements documenting compliance with surveillance requirements.
 - d. Records of experiments performed.
 - e. Records of radioactive shipments.
 - f. Changes of operating procedures.
 - g. Facility radiation and contamination surveys.