



# The University of Michigan

MICHIGAN MEMORIAL – PHOENIX PROJECT  
PHOENIX MEMORIAL LABORATORY FORD NUCLEAR REACTOR  
ANN ARBOR, MICHIGAN 48109-2100

27 June 2003

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Docket 50-2, License R-28

**Subject: Ford Nuclear Reactor License and Technical Specification Amendment 47, *Elimination of Possession of Special Nuclear Material and Physical Security Plan***

Dear Mr. Hughes:

The University of Michigan, Ford Nuclear Reactor is submitting a request to eliminate the possession of Special Nuclear Material in the license Issued to the Ford Nuclear Reactor, current amendment 45 (17 Sep 1998). This license amendment is requested in advance of the removal of all special nuclear material covered by the license for the Ford Nuclear Reactor. It is understood that this license amendment, if approved, would be effective only after all special nuclear material licensed under license R-28 has been returned to the U.S. Department of Energy in a manner which complies with all Orders and Regulations promulgated by the Commission and the Department of Transportation. The University fully expects to complete this removal within the next several months.

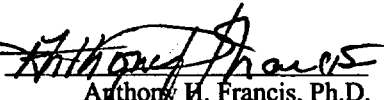
The University is also requesting the elimination of the requirement to "implement and maintain in effect all provisions of the physical security plan approved by the Commission" upon the removal of all special nuclear material covered by the license for the Ford Nuclear Reactor. The referenced physical security plan addresses the physical security requirements for the special nuclear materials allowed under the license and is no longer necessary once all special nuclear material covered by the license for the Ford Nuclear Reactor is removed *and* the license has been amended for no possession as requested above.

This license amendment is the first in a long series of steps the University will be taking over the next few years as the Ford Nuclear Reactor is shutdown, defueled, dismantled, decontaminated and the license terminated. The University requests that the license issued to the Ford Nuclear Reactor remain an operating license so that the ability to make changes to the facility as allowed in 10 CFR 50.59 remains available. The University also requests timely approval of this license amendment request as delays in its approval could result in significant financial costs to the University.

If there are any questions regarding this information, please feel free to contact Christopher W. Becker at (734) 764-6224.

I declare under penalty of perjury that the foregoing is true and correct.

Signature:

  
Anthony H. Francis, Ph.D.  
Director Michigan Memorial Phoenix Project

Executed on: 2 JUL 03

Enclosure: Operating License R-28, Amendment 47, Proposed

File: Correspondence 03-016  
License Amendment - Amendment 467  
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# OPERATING LICENSE AND TECHNICAL SPECIFICATIONS

Ford Nuclear Reactor  
Docket 50-2, License R-28  
Amendment 47: Proposed

License Renewal Issue With Amendments 1-32: 110384				
Amendment:	33: 080489	34: 070191	35:040792	36:050192 37:062592
	38: 100792	39: 051493	40: 080193	41: 111594 42: 021795
	43: 080985	44: 041698	45: 091798	46: Submitted 47: Proposed

## FORD NUCLEAR REACTOR

The University of Michigan  
Docket 50-2

## OPERATING LICENSE R-28

- A. This license applies to the Ford Nuclear Reactor owned by The University of Michigan. The facility is located in Ann Arbor, Michigan, and is described in the application dated November 30, 1984, as supplemented.
- B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses The University of Michigan:
- (1) Pursuant to Section 104c of the Act and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Ann Arbor, Michigan, in accordance with the procedures and limitations set forth in this license,
  - (2) Deleted 47
  - (3) Deleted
  - (4) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," to possess, but not to separate, such byproduct as may be produced by the operation of the facility.
  - (5) Pursuant of the Act and 10 CFR Part 30, "Rules of General Applicability to Domestic Licensing of Byproduct Material," to receive for irradiation in the reactor in the amounts as required any byproduct material without restriction to chemical or physical form having a definite research and development purpose. 45
- C. This license shall be deemed to contain and is subject to the conditions specified in Parts 20, 30, 50, 51, 55, 70, and 73 of 10 CFR Chapter I, to all applicable provisions of the Act, and to the rules, regulations and orders of the Commission now or hereafter in effect and to the additional conditions specified below:

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Docket 50-2, License R-28  
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(1) **Steady State and Maximum Power Levels**

The licensee is authorized to operate the facility at a steady state power level of 2.0 megawatts (thermal). The maximum power level shall not be in excess of 2.2 megawatts (thermal).

(2) **Technical Specifications**

The Technical Specifications contained in Appendix A, as revised through Amendment No. 47, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the technical specifications.

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(3) Deleted

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- D. This license is effective as of the date of issuance and shall expire twenty years from its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Director  
Division of Licensing

Date of Issuance: July 29, 1985

Enclosure: Appendix A, Technical Specifications