

MODIFICATION NO. 4 TO GRANT NO. NRC-G-04-83-003

BETWEEN

PURDUE UNIVERSITY - PURDUE RESEARCH FOUNDATION

AND

THE U.S. NUCLEAR REGULATORY COMMISSION

- A. The purpose of this modification is (1) to change the B&R No. in Block No. 13, (2) to extend the Grant Period in Block No. 3, (3) to add work to be performed, thereby revising Block No. 9 of the Notice of Grant Award, and (4) to change the dollar amount in Block No. 15 of the Notice of Grant Award.
- B. Specifically, of this Grant No. NRC-G-04-83-003:
1. In Block No. 13, Accounting and Appropriation Data, the B&R No. is changed from "60190202" to "601920."
 2. In Block No. 3, Grant Period, is changed from January 1, 1983 through September 30, 1985, to January 1, 1983 through November 30, 1985.
 3. In Block No. 9, Project will be conducted per Grantee's Proposal's Dated: add the following: August 1982, April 16, 1985 and July 29, 1985. The additional tasks are identified below.

Additional Work to be Performed:

Ref: April 16, 1985 letter

1. UPTF calculations and guidance for the PTS (Mixing tests).
2. Participation in the International PTS Workshop and Task Group.
3. IVD (Finland) followup and calculations of new experiments. Visit facility.
4. Role of hydrogen in affecting HPI heatup by condensation (near degraded conditions such as TMI).

Ref: July 29, 1985 letter

5. Review the test matrix for the thermal mixing experiments at HDR facility and provide written comments to NRC.
6. Review the test matrix for the IVD (Finland) thermal mixing tests and provide written comments to NRC.
7. Document the TMI-2 PTS calculation and submit report to NRC.

4. Block No. 15, Funding Sources, is increased by \$45,000.00 from \$260,000.00 to \$305,000.00.
- C. All other terms and conditions under this Grant remain the same.
- D. In witness whereof, the parties have executed this document.

UNITED STATES OF AMERICA:

Date: 9/18/85

By Paul J. Edgeworth
Paul J. Edgeworth, Grants Officer
Technical Contracts Branch
Division of Contracts
Office of Administration

GRANTEE: PURDUE RESEARCH FOUNDATION

Date: 9-9-85

By Robert A. Greenkorn
Robert A. Greenkorn
Vice President for Programs
Title _____