

Lewis Research Center
Cleveland, Ohio
44135

Reply to Attn of 1000

July 26, 1985

Office of the Director
U.S. Nuclear Reactor Regulations
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: DOCUMENT CONTROL DESK

Attn: Mr. C.O. Thomas, Chief
Standardization and Special Projects Branch
Division of Licensing

SUBJECT: Request for Amendment to License R-93 Docket No. 50-185 for
Reinstatement of Possess-But-Not-Operate Status

State of Ohio, Cuyahoga County, ss.
Edward A. Richley being first duly sworn, says that:

In accordance with the applicable sections of 10 CFR Part 50, the National Aeronautics and Space Administration (NASA) requests License R-93, Docket No. 50-185 for the Mock-Up Reactor (100KWth) be reinstated to possess-but-not-operate as a utilization facility. A similar reinstatement request is being made concurrently for the Plum Brook Reactor (PBRF) under separate amendment to license TR-3 Docket No. 50-30. This status change is requested because of budget limitations which have indefinitely delayed NASA dismantling plans for the PBRF.

Approval of this request will change the Mock-Up Reactor (MUR) condition from dismantlement mode to possess-but-not-operate with protected safe storage. Since NASA has no foreseeable plans to dismantle the MUR, a condition of possess-but-not-operate with protected safe storage is appropriate to allow items to be released for possible reuse at a savings to the Government and benefit to the public.

In support of this status change request, the following information is attached to this letter.

1. General Information Amendment to License R-93 Docket No. 50-185
2. Proposed possess-but-not-operate amendment to License R-93 Docket No. 50-185.
3. Proposed Appendix A "Technical Specification" to amended License R-93 Docket No. 50-185.

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4. Bases and Safety Analysis for the Mockup Reactor Facility Protected Safe Storage Condition Attachment 1 to support request for amendment to License R-93 Docket No. 50-185.

Concerning submittal of additional plans, the MUR falls into the "exemption from requirement to file" category for both the following:

- a. Radiological Contingency Plan - because the MUR byproduct material possession limits are sufficiently low.
- b. Physical Security Plan - because the MUR has no fuel and no special nuclear materials.

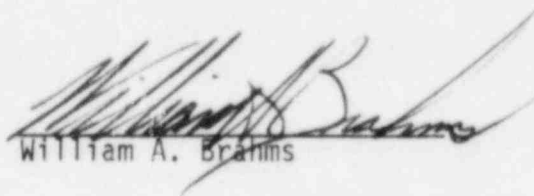
Should you have any questions or need additional information, please contact Dr. Julian Earls, NASA Lewis Research Center, 21000 Brookpark Road, Cleveland, Ohio 44135, telephone number 216/433-4000 extension 6828 (FTS 294-6828).

And further affiant saith not.



Edward A. Richley
Director of Administration and
Computer Services

Sworn to before me and subscribed in my presence this nineteenth day of July, A.D. 1985.



William A. Brahms

Enclosure (4)

cc (w/encl):

Robert M. Quillin, CHP
Radiological Health Program Director
246 North High Street
P. O. Box 118
Columbus, OH 43216

WILLIAM A. BRAHMS, Attorney
My commission has been renewed
Section 147.03 O.R.C.

U. S. Nuclear Regulatory Commission
Division of Licensing
ATTN: Mr. Robert E. Carter, Project Manager
Standardization and Special Projects Branch
Washington, DC 20555

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement, Region III
Attn: Mr. Kenneth R. Ridgeway, Inspector
Reactor Operations Nuclear Support Branch
Program Support Section
799 Roosevelt Road
Glen Ellyn, ILL 60137

AMENDMENT TO LICENSE NO. R-93

DOCKET NO. 50-185

GENERAL INFORMATION

Pursuant to 10 CFR 50.33 the following information is provided to support the request for an Amendment to License R-93, Docket No. 50-185.

1. Applicant - National Aeronautics and Space Administration.
2. Address - Lewis Research Center, Cleveland, Ohio 44135
3. Class of License - 104; Possess-But-Not-Operate
4. Use of Facility- The Facility has no fuel and the reactor is in a protected safe storage condition.
5. Period of time for which license is sought - ten years from date of issuance.
6. Financial Qualification - Being an agency of the United States Government, NASA is financially qualified to possess the requested license.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

DOCKET NO. 50-185

PROPOSED AMENDED FACILITY LICENSE

Amendment No. 3
License No. R-93

1. The proposed Amendment to facility license No. R-93 should read as follows:
 - (A) This license applies to the nonoperable heterogeneous light water-cooled and moderated research reactor (herein referred to as the Mock-Up Reactor (MUR)) owned by the National Aeronautics and Space Administration (NASA), an independent agency of the United States Government, and located at the NASA Plum Brook Reactor Facility near Sandusky, Ohio. The MUR is described in the application dated March 15, 1961, and amendments thereto including the amendment dated March 26, 1973, and supplement dated May 18, 1973, to the NASA license application.
2. Subject to the conditions and requirements incorporated herein, the Nuclear Regulatory Commission hereby licenses NASA:
 - (A) Pursuant to Section 104c of the Act and 10 CFR Chapter I, Part 50, "Licensing of Production and Utilization Facilities", to possess-but-not-operate the reactor and its inventory of byproduct material generated as a result of previous operation.
3. This license shall be deemed to contain and be subject to the conditions specified in Part 20, Sections 50.54 and 50.59 of Part 50, 10 CFR Chapter I, and 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:
 - (A) NASA shall not reactivate the MUR without prior approval of the Commission; and
 - (B) NASA shall not dismantle or dispose of the MUR without prior approval of the Commission.
 - (C) NASA shall not possess fuel for the MUR without prior approval of the Commission.

5. Technical Specifications

The Technical Specifications contained in Appendix A to this license are hereby incorporated in this license and changes therein may be made only when authorized by the Commission in accordance with the provisions of 10 CFR Part 50, Section 50.59.

This license is effective as of the date of issuance and shall expire after ten years.