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Reply to Attn of:

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

Subject: Request for Amendment to License R-93 Docket No. 50-185 for
Renewal of Possess-But-Not-Operate License

State of Ohio, Cuyahoga County, ss.
Mr. Donald J. Campbell, 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 renewed in the possess-but-not-operate status as a utilization facility. A similar request is being made concurrently for the Plum Brook Reactor (PBRF) under separate amendment to license TR-3, Docket No. 50-30. This renewal is requested due to the continued presence of the PBRF at this same site, and the lack of a dependably available nuclear low-level waste disposal facility.

Approval of this request will continue the Mock-Up Reactor (MUR) in the mode of 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 coordination of MUR decommissioning with the decommissioning of the Plum Brook Reactor (License TR-3, Docket No. 50-30).

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

1. General Information Amendment to License R-93, Docket No. 50-185

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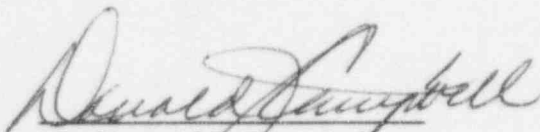
2. Proposed possess-but-not-operate amendment to License R-93, Docket No. 50-185
3. Proposed Appendix A, "Technical Specification" to amended License R-93, Docket No. 50-185.
4. Bases and Safety Analysis for the Mock-up Reactor Facility Protected Safe Storage Condition Attachment 1 to support request 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.

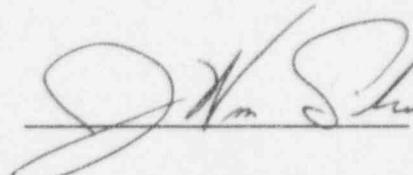
Should you have any questions or need additional information, please contact, Mr. Henry Pfanner, NASA Plum Brook Station, 6100 Columbus Avenue, Sandusky, Ohio, 44870, telephone number 419-621-3206.

And further affiant saith not.


Mr. Donald J. Campbell
Director

Sworn to before me and subscribed in my presence this 29TH day of OCTOBER A.D. 1996.

4 Enclosures


J. WILLIAM SISKRA, Attorney
NOTARY PUBLIC - STATE OF OHIO
My commission expires on expiration date.
Section 147.05 R. C.

cc: (w/enclosures):
Bureau of Radiation Protection
Attn: Mr. Roger Suppes
246 North High Street
P. O. Box 118
Columbus, OH 43216

U. S. Nuclear Regulatory Commission
Attn: Mr. Marvin Mendonca
MS-011-B20
Washington, DC 20555

U. S. Nuclear Regulatory Commission
Region III
Attn: Mr. A. B. Beach
801 Warrenville Road
Lisle, IL 60532-4351

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, OH 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 - Twenty 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. 5
License No. R-93

1. The proposed Amendment to facility license No. R-93 should read as follows:

This license applies to the non-operable 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:

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.

4. 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 50.50.

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