



Reply to Attn of:

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NOV 04 1996

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

Subject: Request for Amendment to License TR-3, Docket No. 50-30
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 TR-3, Docket No. 50-30 for the Plum Brook Reactor Facility (PBRF), be renewed in the possess-but-not-operate status as a utilization facility. A similar renewal request is being made concurrently for the Mock-Up Reactor (MUR) under separate amendment to License R-93, Docket No. 50-185. This renewal is requested to allow continued decay of existing radionuclides to lower total personnel exposure during decommissioning, and due to a lack of a dependably available nuclear low-level waste disposal facility.

Approval of this request will continue the PBRF in the mode of possess-but-not-operate with protected safe storage. Since NASA has no foreseeable plans to dismantle the PBRF, a condition of possess-but-not-operate with protected safe storage is appropriate to 1) minimize occupational exposures, 2) minimize risks to the public, 3) minimize radiological waste, and 4) develop suitable radiological waste disposal plans after delayed decommissioning.

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

1. General Information Amendment to License TR-3, Docket No. 50-30
2. Proposed possess-but-not-operate amendment to License TR-3, Docket No. 50-30

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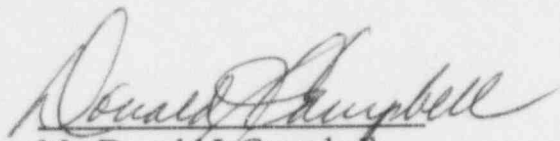
3. Proposed Appendix A, "Technical Specification" to amended License TR-3, Docket No. 50-30
4. Bases and Safety Analysis for the Plum Brook Reactor Facility Protected Safe Storage Condition Attachment 1 to support request for amendment to License TR-3, Docket No. 50-30

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

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

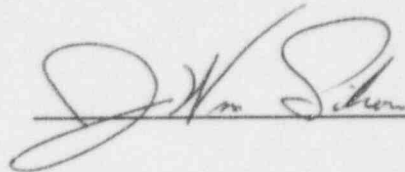
Should you have any questions or need additional information, please contact Mr. Henry Pfanner, NASA Plum Brook Station, 6100 Columbus Avenue, Sandusky, Ohio, 44870, telephone number 419-621-3206.

And further affiant saith not.


Mr. Donald J. Campbell
Director

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

4 Enclosures



J. WILLIAM SCHAEFER, Attorney
NOTARY PUBLIC - STATE OF OHIO
My commission expires on 12/31/97.
Section 447.03 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. TR-3

Docket No. 50-30

General Information

Pursuant to 10 CFR 50.33, the following information is provided to support the request for an Amendment to License TR-3, Docket No. 50-30.

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. 50-30

PROPOSED AMENDED FACILITY LICENSE

Amendment No. 9

License No. TR-3

1. The proposed Amendment to facility license No. TR-3 should read as follows:

This license applies to the heterogeneous light water-cooled and moderated test reactor referred to as the Plum Brook Reactor Facility (PBRF). The PBRF includes all associated on site support facilities except for the Mock-Up Reactor (MUR) which is under separate License R-93, Docket No. 50-185.

The PBRF is owned by the National Aeronautics and Space Administration (NASA), an independent agency of the United States Government and located at the NASA Plum Brook Station near Sandusky, Ohio. The PBRF is described in the application for the full-term license dated January 10, 1964, and amendments thereto, including:

AMENDMENT 5 FOR STANDBY

Application - March 19, 1973

Supplement - May 11, 1973

AMENDMENT 6 TO EXCLUDE STRUCTURES 1121, 1142, 1156

Application - October 27, 1976

AMENDMENT 7 FOR PROTECTED SAFE STORAGE

AMENDMENT 8 FOR CHANGE OF ADMINISTRATIVE OVERSIGHT

Application - February 27, 1989

Supplement - June 22, 1989

AMENDMENT 9 FOR CONTINUED SAFE STORAGE

This Application

2. Subject to the conditions and requirements incorporated herein, the U.S. 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 PBRF 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, Section 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 PBRF without prior approval of the Commission; and
- (B) NASA shall not dismantle or dispose of the PBRF without prior approval of the Commission.
- (C) NASA shall not possess fuel for the PBRF 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 50.59.

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