UNITED STATES ATOMIC ENERGY COMMISSION

LOCKHEED ATROPAPT COMPORATION, DOCKET NO. 50-172

AND THE GENERAL SERVICES ADMINISTRATION, DOCKET NO. 50-176

NOTICE OF ISSUANCE OF FACILITY LICENSE AMENDMENT

Please take notice that the Atomic Energy Commission has issued, effective as of the date of issuance, Amendment No. 5, set forth below, to Facility License No. R-86, as amended, to the Lockheed Aircraft Corporation and to the General Services Administration concerning the Radiation Effects Reactor located in Dawson County, Georgia. The amendment (1) extends the expiration date of the license to April 4, 1969, subject to the condition that the Lease Agreement between General Services Administration, and Lockheed Aircraft Corporation remains in effect continuously; (2) authorizes the General Services Administration, as the responsible Federal Agency, to possess title to the reactor; anu (3) authorizes Lockheed Aircraft Corporation to use and operate the reactor.

The Commission has found that:

- (1) The applications for amendment comply with the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations set forth in Title 10, Chapter 1, CFR;
- (2) Possession and use of the reactor in accordance with the license as amended will not present undue hazard to the health and safety of the public and will not be inimical to the common defense and security.
- (3) Prior public notice of proposed issuance of this amendment is not required since the amendment does not involve significant hazard considerations different from those previously evaluated.

Within fifteen (15) days from the date of publication of this notice in the Federal Register, the licensee may file a request for a hearing, and any person whose interest may be affected by this proceeding may file a petition

for leave to intervene. Requests for a hearing and petitions to intervene

9202270009 910725 PDR FOIA SWEENEY91-233 PDR shall be filed in accordance with provisions of the Commission's Regulation (10 CFR 2). If a request for a hearing or a petition for leave to intervene is filed within the time prescribed in this notice, the Commission will issue a notice of hearing or an appropriate order.

For further details with respect to this amendment, see (1) a related bazards analysis prepared by the Test & Power Reactor Safety Branch of the Division of Reactor Licensing, (2) Lockheed Aircraft Corporation's application for license amendment dated March 2, 1964 and June 12, 1964, and (3) General Services Administration's letter dated June 15, 1964, all of which are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. A copy of item (1) above may be obtained at the Commission's Public Document Room, or upon request addressed to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Director, Division of Reactor Licensing.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By R.L. Doan

Director Division of Reactor Licensing

Dated at Bethesda, Maryland , 1964. day of this

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LOCKHEED AIRCRAFT CORPORATION, DOCKET NO. 50-172

AND GENERAL SERVICES ADMINISTRATION, DOCKET NO. 50-176

AMENDMENT TO PACILITY LICENSE

Liceuse No. R-86 Amendment No. 5

License No. R-86, as amended, is revised in its entirety to read as follows:

1. This license applies to the Radiation Effects Reactor (RER), a heterogeneous pressurized water-type nuclear reactor (Air Force Plant No. 67 hereinafter referred to as "the reactor") which is possessed by the General Services Administration and located on a 10,000 acre site in Dawson County, Georgia, and described in the Lockheed Aircraft Corporation application for license dated February 23, 1963; May 25, 1962; July 25, 1962; September 25, 1962; October 24, 1962; November 20, 1962; February 8, 1963; February 18, 1963; February 26, 1963; April 10, 1963; May 9, 1963; June 17, 1963; June 28, 1963; August 8, 1963; August 9, 1963; September 26, 1963; January 6, 1964; March 2, 1964; and June 12, 1964; and described in the Department of the Air Force application for license dated March 15, 1962 and April 11, 1962, and described in the U. S. Army Corps of Engineers (representing the U. S. Air Force, and later representing the General Services Administration) application amendments dated June 25, 1963, August 13, 1963, and October 29, 1963; and described in the General Services Administration application amendment dated June 15, 1964 (hereinafter collectively referred to as "the application"). The reactor was constructed for the Department of the Air Force as a facility exempt from ABC licensing requirements under Section 91 b of the Atomic Energy Act of 1954, as amended.

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- 2. Pursuant to the Atomic Energy Act of 1954, as amended, (bereinafter referred to as "the Act") and having considered the record in this matter, the Atomic Energy Commission (bereinafter referred to as "the Commission") finds that:
 - A. The reactor as constructed will operate in conformity with the application and in conformity with the Act and the rules and regulations of the Commission;
 - B. There is reasonable assurance that the reactor can be operated at the designated location without endangering the heulth and safety of the public;
 - C. Lockheed Aircraft Corporation, with whom General Services

 Administration has consummated a lease agreement to use the facility, is technically and financially qualified to operate the reactor, to assume financial responsibility for payment of Commission charges for special nuclear material and to undertake and carry out the proposed activities in accordance with the Commission's regulations:
 - D. General Services Administration is financially qualified, and through its contractural relationship with Lockheed Aircraft Corporation, is technically qualified to possess title to the facility.
 - E. Issuance of a license authorizing (1) General Services Administration to possess title to the facility and (2) Lockheed Aircraft Corporation to possess, use, and operate the facility and to receive, possess, and use the special nuclear material, in the manner proposed in the application, will not be inimical to the common defense and recurity or to the health and safety of the public;

- F. Lockheed Aircraft Corporation has submitted proof of financial protection which satisfies the requirements of Commission regulations currently in effect.
- 3. Bubject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - A. Pursuant to Section 104c of the Act and Title 10, CFR, Chapter 1,
 Part 50, "Licensing of Production and Utilization Facilities,"
 General Services Administration to possess title to the facility,
 and Lockheed Aircraft Corporation to possess, use, and operate the
 reactor as a utilization facility at the designated location in
 Dawson County, Georgia;
 - B. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 70, "Special Nuclear Material," Lockheed Aircraft Corporation to receive, possess, and use up to 18.8 kilograms of contained uranium in connection with operation of the reactor; and
 - C. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 30

 "Licensing of Byproduct Material," General Services Administration
 to possess title to, and Lockheed Aircraft Corporation to possess,
 but not to separate, such byproduct material as may be incidentally
 produced by operation of the reactor.
 - 4. This license shall be deemed to contain and be subject to the conditions specified in Section 30.32 of Part 30, Section 50.54 and 50.59 of Fart 50, and Section 70.32 of Part 70, Title 10, Chapter 1, CFR, and to be subject to all applicable provisions of the Act, and to the rules and regulations and orders of the Commission, now or hereafter in effect, and to the additional conditions specified below:
 - A. Lockheed Aircraft Corporation shall not operate the reactor at power levels in excess of 3,000 kilowatts (thermal) without prior written authorization from the Commission.

B. Technical Specifications

The Technical Specifications contained in Appendix "A" attached hereto are hereby incorporated in this license. Except as hereinafter provided, Lockheed Aircraft Corporation shall operate the facility in accordance with the Technical Specifications. Lockheed may make changes in the Technical Specifications only when authorized by the Commission in accordance with the provisions of Section 50.59 of the Commission's Regulations (Title 10, CFR, Chapter 1, Part 50, "Licensing of Production and Utilization Facilities");

- C. General Services Administration and Lockheed Aircraft Corporation shall not permit or authorize any organization other than Lockheed Aircraft Corporation to operate the facility.
- D. Nothwithstanding any expiration, modification, cancellation or termination of the Lease Agreement between General Services

 Administration and Lockbeed Aircraft Corporation dated

 April 4, 1962, Change Order No. 1 thereto dated August 13, 1963,

 General Services Administration's letters to Lockbeed Aircraft

 Corporation dated April 1, 1964 and May 26, 1964 (hereinafter referred to as "the Agreement"), Lockbeed Aircraft Corporation shall, so long as this license shall be in force with respect to Lockbeed

 Aircraft Corporation, be responsible for assuring that the provisions of this license and Commission regulations for protection of health and safety from radiation hazards and are observed with respect to the facility and materials covered by this license.

 Lockbeed Aircraft Corporation shall also be responsible for maintaining the reactor and its components in a safe condition.

In the event of any expiration, modification, cancellation or termination of the Agreement, Lockheed Aircraft Corporation or General Services Administration may apply to the Commission for an appropriate amendment of this license to terminate this license insofar as it is granted to Lockheed Aircraft Corporation. Until such amendment is issued, General Services Administration shall in no way prevent Lockheed Aircraft Corporation from observing the requirements set forth in this condition.

In addition to those otherwise required under this license and Records applicable regulations, Lockheed Aircraft Corporation shall keep the following records.

- (1) Reactor operating records, including power levels.
- (2) Records of all experimental irradiations.
- (3) Records showing radioactivity released or discharged into the air or water beyond the effective control of Lockheed Aircraft Corporation as measured at the point of such release
 - (4) Records of emergency reactor scrams, including reasons for emergency shutdowns.
 - (5) Records of environmental surveys.
 - (6) Records of meteorological conditions that prevail during reactor operations such that inversion conditions can be readily identified and the date can be used to calculate Argon-41 concentrations to demonstrate compliance with Title 10, Chapter 1, CFR, Part 20.

any unusual events involved in handling or operation.

- (b) Number of emergency reactor scrams and unscheduled shutdowns with a brief explanation of the cause of each.
- (c) Principal maintenance performed and replacements made in the reactor and associated systems.
- (d) Results of environmental surveys in connection with the measurement of on-site soil activation, activated soil transport, and the levels in the Etowah River.
- (e) Significant changes made in operating procedures and in plant organization.
- (f) Changes made in the facility and tests or experiments

 performed pursuant to 10 CFR 50.59(b) without prior Commission
 approval.
- H. A copy of any notice of intent to terminate or modify the Agreement submitted by either party to the other shall be furnished simultaneously to the Commission. On or bufore October 1, 1964, the General Services Administration and Lockheed Aircraft Corporation shall notify the Commission as to whether the Agreement will expire on December 1, 1964. In the event the Agreement is amended and a new expiration date established, Lockheed and GSA shall notify the Commission within sixty days of the date upon which the amended Agreement shall expire.
- 5. Pursuant to Section 50.60 of the regulations in Title 10, Chapter 1, CFR,
 Part 50, the Commission has allocated to Lockheed Aircraft Corporation for
 use in connection with the facility 18.8 kilograms of uranium-235 contained
 in uranium enriched in the isotope uranium-235. Estimated schedules of
 special nuclear material transfers to Lockheed Aircraft Corporation and
 returns to the Commission are contained in Appendix "B", which is attached

hereto. Shipments by the Commission to Lockheed Aircraft Corporation in accordance with Column 2 in Appendix "B" will be conditioned upon Lockheed Aircraft Corporation return to the Commission of material substantially in accordance with Column 3 of the Appendix "B".

6. This amendment is effective as of the date of issuance and shall expire on April 4, 1969 provided the Lease Agreement described in paragraph 4.D. above remains in effect continuously.

FOR THE ATOMIC ENERGY COMMISSION

Director Division of Reactor Licensing

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