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ATOMIC ENERGY COMMISSION  
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Atomics International  
A Division of North American  
Aviation, Inc.  
P. O. Box 309  
Canoga Park, California

Attention: Mr. T. F. Humphrey, Director  
Contract Administration

Gentlemen:

Transmitted herewith is Amendment No. 1 to your Facility License  
No. R-40. The amendment authorizes North American Aviation, Inc.  
to possess and operate the 10 watt (thermal) nuclear research  
reactor designated as the "L-77" at a new location at the Company's  
DeSoto facility in Canoga Park, California, as requested in its  
applications for license amendments dated February 8, 1960 and  
March 29, 1960.

Also enclosed is a related notice which has been submitted to  
the Office of the Federal Register for filing and publication.

Sincerely yours,

*H. F. [Signature]*

Director

Division of Licensing and Regulation

Enclosures:

1. Amendment No. 1 to License No. R-40
2. Notice to Office of the Federal Register

Air Mail

3845 FT



ADJUT: C. E. BROWN, Jr.

Dist: 7-1-60 rr/eg

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-94

NORTH AMERICAN AVIATION, INC.

NOTICE OF ISSUANCE OF UTILIZATION FACILITY LICENSE AMENDMENT

Please take notice that the Atomic Energy Commission has issued Amendment No. 1, set forth below, to License No. R-40. The amendment authorizes North American Aviation, Inc. to possess and operate the 10 watt (thermal) nuclear research reactor designated as the "L-77" at a new location at the DeSoto facility of North American Aviation, Inc., in Canoga Park, California as requested in its applications for license amendments dated February 8, 1960 and March 29, 1960. Prior public notice of the proposed issuance of this amendment was published in the Federal Register on June 10, 1960, 25 FR 5192

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a request therefor from the licensee or an intervener within thirty days after issuance of the license amendment. Petitions for leave to intervene or requests for formal hearing shall be filed by mailing a copy to the Office of the Secretary, Atomic Energy Commission, Washington 25, D. C., or by delivery of a copy in person to the Office of the Secretary, Germantown, Maryland, or the AEC's Public Document Room, 1717 H Street, Washington, D. C. For further details see (1) the applications for license amendments dated February 8, 1960 and March 29, 1960, submitted by North American Aviation, Inc. and (2) a hazards analysis

of the proposed operation prepared by the Hazards Evaluation Branch of the Division of Licensing and Regulation, both on file at the AEC's Public Document Room. A copy of item (2) above may be obtained at the AEC's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION



H. L. Price

Director

Division of Licensing & Regulation

Dated at Germantown, Maryland  
this 28th day of June, 1960.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

NORTH AMERICAN AVIATION, INC.

DOCKET NO. 50-94

AMENDMENT TO UTILIZATION FACILITY LICENSE

License No. R-40  
Amendment No. 1

License No. R-40 is revised in its entirety to read as follows:

1. The Atomic Energy Commission (hereinafter "the Commission") finds that:
  - A. The solution-type 10 watt nuclear research reactor authorized for construction by Construction Permit CPRR-54 issued to North American Aviation, Inc., has been constructed in accordance with the specifications contained in the application;
  - B. There is reasonable assurance that the reactor can be operated without endangering the health and safety of the public;
  - C. North American Aviation, Inc., is technically and financially qualified to operate the reactor;
  - D. Issuance of a license to possess and operate the reactor will not be inimical to the common defense and security or to the health and safety of the public;
  - E. North American Aviation, Inc., has submitted proof of financial protection which satisfies the requirements of Commission regulations which are currently in effect.
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses North American Aviation, Inc:



- A. Pursuant to Section 104c of the Act and Title 10, CFR, Chapter 1, Part 50, "Licensing of Production and Utilization Facilities" to possess and operate as a utilization facility the nuclear research reactor designated below;
  - B. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 70, "Special Nuclear Material", to possess and use 1.5 kilograms of contained uranium-235 as fuel for operation of the reactor;
  - C. Pursuant to the Act and Title 10, CFR, Chapter 1, Part 30, "Licensing of Byproduct Material" to possess but not to separate such byproduct material as may be produced in the operation of the reactor.
3. This license applies to the reactor which is owned by North American Aviation, Inc., and located at Canoga Park, California, and described in North American Aviation, Inc.'s application dated January 20, 1958, and amendments thereto dated March 26, 1958, April 15, 1958, September 25, 1959, February 8, 1960, and March 29, 1960, (herein referred to as "the application"). The reactor is of the solution-type, is moderated by light water and uses as fuel a solution of uranyl sulfate containing uranium enriched to 20% or more in the isotope uranium-235. It is designed to operate at a thermal power level of ten (10) watts and is designated by North American Aviation, Inc., as the "L-77" reactor.
4. This license shall be deemed to contain and be subject to the conditions specified in Section 50.54 of Part 50; is subject to all applicable provisions of the Act and rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

a. Operating Restrictions

- (1) North American Aviation, Inc., shall operate the facility in accordance with the application.
- (2) North American Aviation, Inc., shall not operate the reactor at a power level in excess of 10 watts (thermal)
- (3) Materials having a reactivity value in excess of 0.5% may not be inserted into the exposure tubes.

b. Records

In addition to those otherwise required under this license and applicable regulations, North American Aviation, Inc., shall keep the following records:

- (1) Reactor operating records, including power levels.
- (2) Records showing radioactivity released or discharged into the air or water beyond the effective control of North American Aviation, Inc., as measured at the point of such release or discharge
- (3) Records of emergency scrams, including reasons for emergency shutdowns

c. Reports

North American Aviation, Inc., shall immediately report to the Commission any indication or occurrence of a possible unsafe condition relating to the operation of the reactor.

5. This license is effective as of the date of issuance and shall expire at midnight May 16, 1978.

FOR THE ATOMIC ENERGY COMMISSION



H. L. Price

Director

Division of Licensing & Regulation

Date of Issuance: JUN 28 1960