

CAL:LF
Docket No. A-59

JUN 26 1957

Curtiss-Wright Corporation
Research Division
Brighton Road
Clifton, New Jersey

Gentlemen:

Attached is Construction Permit CPER-11 which has been issued
by the Atomic Energy Commission.

DISTRIBUTION

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Sincerely yours,

(Signed) H. L. Price

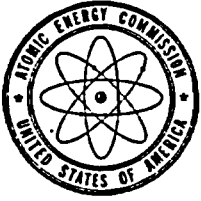
H. L. Price
Director
Division of Civilian Application

Enclosure:
Construction Permit
CPER-11

Rev. A-3 - Curtiss-Wright

OFFICE ▶	<i>LF</i>	CAL <i>[initials]</i>	CAL <i>[initials]</i>	CA <i>[initials]</i>	CA <i>[initials]</i>	
SURNAME ▶	LFlex/mjn	CTEdwards	ERFleury	FFRittman	HLPrice	
DATE ▶	6/18/57	<i>[initials]</i>	6/19	<i>[initials]</i>	9/24/57	

D-48



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

CURTISS-WRIGHT CORPORATION
DOCKET F-39

CONSTRUCTION PERMIT

CPRR-11

The Curtiss-Wright Corporation (hereinafter referred to as "Curtiss-Wright") on October 24, 1956, filed its application for a Class 104 license to construct and operate a nuclear reactor (hereinafter referred to as "the reactor"). Amendments to the application were filed on December 28, 1956, and March 12, 1957. The application as amended will be referred to herein as "the application".

The Atomic Energy Commission (hereinafter referred to as the "Commission") has found that:

- A. The reactor will be a utilization facility as defined in the Commission's regulations contained in Title 10, Chapter 1, C.F.R., Part 50, "Licensing of Production and Utilization Facilities."
- B. Curtiss-Wright proposes to utilize the reactor in the conduct of research and development activities of the types specified in Section 31 of the Atomic Energy Act of 1954.
- C. Curtiss-Wright is financially qualified to construct and operate the reactor in accordance with the regulations contained in Title 10, Chapter 1, C.F.R.; to assume financial responsibility for the payment of Commission charges for special nuclear material and to undertake and carry out the proposed use of such material for a reasonable period of time.
- D. Curtiss-Wright is technically qualified to design and construct the reactor.
- E. Curtiss-Wright has submitted sufficient information to provide reasonable assurance that a reactor of the general type proposed can be constructed and operated at the proposed location without undue risk to the health and safety of the public and that additional information required to complete its application will be supplied.

- F. The issuance of a construction permit to Curtiss-Wright will not be inimical to the common defense and security and to the health and safety of the public.

Pursuant to the Atomic Energy Act of 1954, and Title 10, C.F.R., Chapter 1, Part 50, "Licensing of Production and Utilization Facilities", the Commission hereby issues a construction permit to Curtiss-Wright to construct the reactor as a utilization facility. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55 of said regulations; is subject to all applicable provisions of the Atomic Energy Act of 1954 and rules, regulations and orders of the Atomic Energy Commission now or hereafter in effect; and is subject to any additional conditions specified or incorporated below.

- A. The earliest completion date of the reactor is July 1, 1957. The latest date for completion of the reactor is January 31, 1958. The term "completion date" as used herein means the date on which construction of the reactor is completed except for the introduction of the fuel material.
- B. The site proposed for the location of the reactor is the location at Quehanna, Pennsylvania, specified in the Preliminary Hazards Evaluation Report accompanying the application filed October 29, 1956.
- C. The general type of facility authorized for construction is a light water cooled and moderated research reactor designed to operate at a thermal power level of 1,000 kilowatts, as described in the application.

This permit is subject to submittal by Curtiss-Wright to the Commission (by proposed amendment of the application) of the complete, final Hazards Summary Report (portions of which may be submitted and evaluated from time to time) and a finding by the Commission that the final design provides reasonable assurance that the health and safety of the public will not be endangered by operation of the reactor in accordance with the specified procedures.

Upon completion (as defined in Paragraph "A" above) of the construction of the facility in accordance with the terms and conditions of this permit, upon the filing of any additional information needed to bring the original application up to date, and upon finding that the facility authorized has been constructed in conformity with the application as amended and in conformity with the provisions of the Act and of the rules and regulations of the Commission, and in the absence of any good cause being shown to the Commission why the granting of a license would not be in accordance with the provisions of the Act, the Commission will issue a Class 104 license to Curtiss-Wright pursuant to Section 104c of the Act, which license shall expire twenty (20) years after the date of this construction permit.

Pursuant to Section 50.60 of the regulations in Title 10, Chapter 1, C.F.R., Part 50, the Commission has allocated to Curtiss-Wright for use in the operation of the reactor, 8.1 kilograms of uranium 235 contained in uranium at the isotopic ratios specified in Curtiss-Wright's application as amended. Estimated schedules of special nuclear material transfers to Curtiss-Wright and returns to the Commission are contained in Appendix "A" which is attached hereto. Deliveries by the Commission to Curtiss-Wright in accordance with Schedule 1 in Appendix "A" will be conditioned upon Curtiss-Wright's return to the Commission of special nuclear material substantially in accordance with Schedule 2 of Appendix "A".

FOR THE ATOMIC ENERGY COMMISSION

H. L. Price
Director
Division of Civilian Application

Attachment:
Appendix "A"

Date of Issuance: *June 20, 1957*

APPENDIX "A" TO CURTISS-WRIGHT'S
CONSTRUCTION PERMIT
DOCKET NO. F-39

SCHEDULE 1

Estimated Schedule of Transfers of Special Nuclear Material from the
Commission to Curtiss-Wright:

<u>Calendar Year of Transfer</u>	<u>Kilograms of Contained U-235</u>
1957	6.0
1959	4.0
1960-1976 (17 yrs. total of 5.0 per year)	<u>85.0</u>
Total transfers	95.0

SCHEDULE 2

Estimated Schedule of Transfers of Special Nuclear Material from
Curtiss-Wright to the Commission:

<u>Calendar Year of Transfer</u>	<u>Kilograms of Contained U-235 Recoverable Scrap</u>	<u>Spent Fuel</u>	<u>Total</u>
1957	1.5	-	1.5
1959	0.8	3.0	3.8
1960 - 1976 (17 yrs. total)	17.0 <u>1/</u>	64.6 <u>2/</u>	81.6
1977 - Return of Inventory	-	<u>4.4</u>	<u>4.4</u>
		72.0	91.3

1/ 1.0 kilogram per year
2/ 3.8 kilograms per year