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August 1, 1955

1826 JEFFERSON PLACE, N.W.
WASHINGTON 6, D.C.

Mr. H. L. Price
Director
Division of Civilian
Application
U. S. Atomic Energy Commission
Washington 25, D. C.

Dear Mr. Price:

There is attached in triplicate Amendment No. 1 to the application for licenses under the Atomic Energy Act of 1954 heretofore filed by Consolidated Edison Company of New York, Inc.

In substance, this amendment constitutes a reply to the first, second and third questions in your letter of June 17, 1955.

An exact response to your fifth question is contained in Exhibit "I" which is being separately transmitted by reason of its security classification.

Very truly yours,

LeBoeuf, Lamb & Leiby

Attachment

U. S. ATOMIC ENERGY COMMISSION

APPLICATION FOR LICENSES

AMENDMENT NO. 1 July 28, 1955

(Transmitted by ltr 8/1/55, LeBeuf, Lamb & Leiby)

Consolidated Edison Company of New York, Inc.

LAW OFFICES OF

LE BOEUF, LAMB & LEIBY

1821 1826 JEFFERSON PLACE, N. W.

WASHINGTON 6, D. C.

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR LICENSES

Under the

ATOMIC ENERGY ACT OF 1954

AMENDMENT NO. 1

In response to a letter from the Commission dated June 17, 1955, Applicant, Consolidated Edison Company of New York, Inc., ("Applicant") hereby amends and supplements its application for licenses dated March 21, 1955.

Section II G of said application is amended to read as follows:

"G. The following information is submitted regarding special nuclear material required for and produced by said reactor:

1. Kind: Uranium enriched by about 90% in the isotope 235.
2. Amounts required, consumed, produced, lost and transferred:

See attached Exhibit "J"

3. Source: Atomic Energy Commission
4. Place of Use: Indian Point, Village of Buchanan, Westchester County, New York."

The exact percentage of uranium enrichment referred to is contained in classified Exhibit "I" separately filed simultaneously with this Amendment No. 1. In arriving at the figures shown on Exhibit "J" for consumption, production and transfer of special nuclear material, and operating losses, the following assumptions were made:

In order to calculate the amount of U-235 produced and the net amount of U-233 produced, each one-third segment of the reactor core was assumed to have the same average overall thermal flux. In the case of U-233 production, account was taken of the fission and non-fission capture in U-233 and capture in Pa-233. Consideration was also given to the fact that at the time the core segment would be removed, it would contain a concentration of Pa-233, which if allowed to decay would produce additional U-233. In the assumed storage of fifty-five (55) days, or two Pa-233 half lives, about 75% of the Pa-233 would be transmuted into U-233. This gain has been credited to the year in which the spent fuel elements were stored and transferred for reprocessing. The negligible amount of Pa-239 produced from the U-238 present in the reactor core has been ignored. It is to be noted that Item 1 of Exhibit "J" states a requirement for special nuclear material for the first year of reactor operation. In fact, however, this material would have to be made available approximately one year before the earliest completion date hereinafter referred to, in order to permit fabrication of the reactor core.

Section III of said application is amended to read as follows:

"On the basis of presently available knowledge and on the assumption that a construction permit will be issued to Applicant on or about January 1, 1956, the earliest estimated completion date for the reactor is December 1, 1959, and the latest estimated completion date is December 1, 1960. As used herein, the phrase "completion date" means the date on which a sustained nuclear chain reaction first occurs in the proposed reactor."

Wherefore Applicant prays as in its original application.

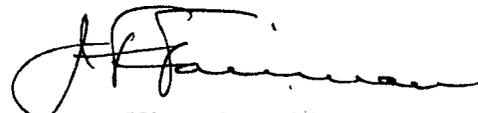
IN WITNESS WHEREOF, CONSOLIDATED EDISON COMPANY OF NEW YORK, INC., has caused its name to be hereunto signed by J. F. Fairman, its Vice President, and its corporate seal to be hereto affixed by M. T. Chandler, its Secretary, thereunto duly authorized, this 28th day of July 1955.

CONSOLIDATED EDISON COMPANY
OF NEW YORK, INC.

Attest:


Secretary

By

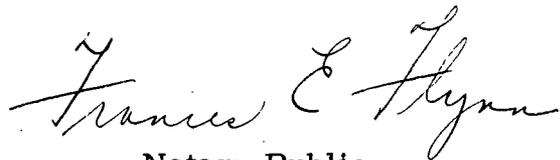

Vice President

STATE OF NEW YORK)
) SS
COUNTY OF NEW YORK)

J. F. Fairman, being first duly sworn deposes and says:
That he is Vice President of Consolidated Edison Company of New York,
Inc., the applicant for licenses hereunder, that he has read the fore-
going amendment to the application and knows the contents thereof; that
the same are true to the best of his knowledge and belief.



Subscribed and sworn to before me this 28th day of July 1955.

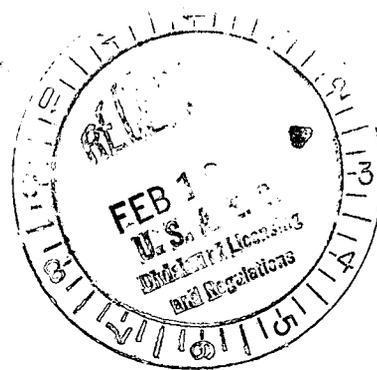


Notary Public

FRANCES E. FLYNN
Notary Public - State of N. Y.
24-1258285
Qualified in Kings Co.
Certificate Filed in New York Co.
Comm. Expires March 30, 1957

	U-235 (Kg)		U-233 (Kg)	
	1st yr.	2nd yr. & after	1st yr.	2nd yr. & after
1. Total amount received from Commission	476	238		
2. Amount contained in fuel plates which are rejected during fabrication and returned to Commission	60	30		
3. Non-recovered loss during fabrication	2	1		
4. Amount fabricated	414	207		
5. Amount placed in operation in reactor	345	207		
6. Amount consumed in operation	137	122		
7. Non-recovered losses during operation	None	None		
8. Amount transferred to Commission (for reprocessing)	82.5	81.0		
9. Total amount of new special nuclear material produced			115	132
10. Amount of new special nuclear material consumed			37.2	51.8
11. Amount of new special nuclear material transferred to Commission (for reprocessing)			62.7	80.1

NOTE: Tabulation does not reflect reprocessing losses.



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