

BEFORE THE
UNITED STATES ATOMIC ENERGY COMMISSION

Docket No. 50-289

Amendment No. 16

In the Matter of
Metropolitan Edison Company

Jersey Central Power & Light Company

&

Pennsylvania Electric Company

APPLICATION FOR CLASS 104b
UTILIZATION FACILITY OPERATING LICENSE
UNDER THE ATOMIC ENERGY ACT OF 1954
AS AMENDED

for
THREE MILE ISLAND NUCLEAR STATION
UNIT 1

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(Revised January 12, 1971)

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5. Description of Facility and Use to Which Facility Will Be Put

The utilization facility is a pressurized water nuclear reactor which will form an integral part of a nuclear electric generating station to be located on Three Mile Island in Londonderry Township, Dauphin County, Pennsylvania and known as Three Mile Island Nuclear Station Unit 1. The facility will be capable of operation at a reactor thermal power level of approximately 2535 MWt. The corresponding net electrical output is 845 MWe. Details concerning the station and the site are contained in the Final Safety Analysis Report (FSAR) which was filed with the Atomic Energy Commission (AEC) on March 2, 1970, and is incorporated herein by reference.

6. Financial Qualifications

Met-Ed, Jersey Central and Penelec will own the station as tenants in common without right of partition with the following respective undivided ownership interests:

Met-Ed	50%
Jersey Central	25%
Penelec	25%

The applicants will share expenditures for the construction, operation, and maintenance of the station, and will share in the energy production in proportion to their undivided ownership interests.

The annual reports of Met-Ed, Jersey Central, Penelec and GPU, including financial statements for the year ended December 31, 1969, are attached as Exhibits I, II, III, and IV, respectively.

Applicants have not formulated plans for permanent shutdown of the Three Mile Island Unit 1 facility. However, assuming shutdown measures comparable to those authorized by the Commission for the retirement of the Hallam Nuclear Power Facility, applicants estimate that the cost of retirement for Three Mile Island Unit 1 based on current dollar values, would not exceed \$6,000,000. An additional \$50,000 per year will be set aside to cover the cost of round the clock surveillance of the facility and periodic maintenance to fences and barriers. Met-Ed, Jersey Central and Penelec will purchase uranium for the first core from private sources and will obtain necessary enrichment through toll enriching arrangements with the AEC. Table I, hereto attached, lists the estimated operating costs for Three Mile Island Unit 1 for the five year period 1973 through 1977.

7. Security Agreement

The application does not contain any Restricted Data or other defense information. Met-Ed, Jersey Central and Penelec agree that they will not permit any individual to have access to Restricted Data until the Civil Service Commission shall have made an investigation and a report to the Atomic Energy Commission on the character, associations and loyalty of such individual, and the Atomic Energy Commission shall have determined that permitting such person to have access to Restricted Data will not endanger the common defense and security.

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TABLE I

ESTIMATED OPERATING COSTS FOR
THE THREE MILE ISLAND NUCLEAR STATION UNIT 1
FOR THE FIRST FIVE YEARS OF COMMERCIAL OPERATION
(AMOUNTS IN \$1,000)

	10 Mos. <u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>Total</u>
<u>Fuel</u>						
Fabrication	2,061	2,335	1,884	1,942	2,037	10,259
Depletion	4,588	5,198	5,572	5,884	5,884	27,126
Shipping, Reprocessing, and Reconversion	792	897	711	722	750	3,872
Plutonium Credit	(1,188)	(1,346)	(1,215)	(1,250)	(1,280)	(6,279)
IDC	361	158	308	569	720	2,116
Other	<u>966</u>	<u>1,094</u>	<u>759</u>	<u>384</u>	<u>0</u>	<u>3,203</u>
Sub-Total	7,580	8,336	8,019	8,251	8,111	40,297
<u>Other Operations & Maintenance</u>						
Payroll	788	873	873	873	873	4,280
Materials and Supplies	<u>1,705</u>	<u>2,710</u>	<u>1,605</u>	<u>1,605</u>	<u>1,605</u>	<u>9,230</u>
Sub-Total	2,493	3,583	2,478	2,478	2,478	13,510
<u>Depreciation</u>						
Substation	61	73	73	73	73	353
Generating Station	<u>7,343</u>	<u>8,811</u>	<u>8,811</u>	<u>8,811</u>	<u>8,811</u>	<u>42,587</u>
Sub-Total	7,404	8,884	8,884	8,884	8,884	42,740
Total	17,477	20,803	19,381	19,613	19,473	96,747