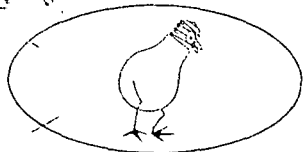


For Hearing File



Commonwealth Edison Company

72 WEST ADAMS STREET * CHICAGO, ILLINOIS 60690

February 10, 1966

United States
Atomic Energy Commission
Washington, D.C. 20025

Attention: Division of Reactor Licensing

Application for Construction Permit
and Operating License for Dresden Unit 3

In accordance with the provisions of Title 10, Chapter I, Part 50 of the Code of Federal Regulations, Commonwealth Edison Company hereby makes application for a construction permit and operating license under Section 104(b) of the Atomic Energy Act of 1954, as amended, for its proposed Dresden Unit 3, a utilization facility to be located at Commonwealth Edison Company's Dresden Station near Morris, Illinois.

See Reports File #1

In addition to three signed originals, this filing includes 19 copies of the application, except that the technical information being supplied in accordance with Section 50.34 of 10 CFR Part 50 is supplied in 70 copies of which 48 are being shipped under separate cover. Such technical information includes summaries of site and environmental data required by subparagraph (c) and (f) of Section 50.34. Data supporting such summaries may be found in Volume III of the Dresden Unit 2 Plant Design and Analysis Report, as amended, filed in AEC Docket 50-237 and is incorporated herein by reference pursuant to Section 50.32 of 10 CFR Part 50. Additional copies of such Volume III will be supplied upon request.

COMMONWEALTH EDISON COMPANY

By

Murray J. Jolin
Vice-President

Subscribed and sworn to
before me this 10th day
of February, 1966.

[Signature]
Notary Public

COMMONWEALTH EDISON COMPANY

Application for
Construction Permit and
Operating License
for Dresden Unit 3

General Information

(a) Name of Applicant

Commonwealth Edison Company

(b) Address of Applicant

72 West Adams Street
Chicago, Illinois 60690

(c) Description of Business of Applicant

Commonwealth Edison Company (hereinafter "Commonwealth") is a public utility which generates, distributes, and sells electricity in Chicago and in a large portion of northern Illinois outside Chicago. It serves about 2,272,700 customers in an area of approximately 11,000 square miles with a population of about 7,100,000.

(d) Corporate Data

Commonwealth is organized and existing under and by virtue of the laws of the State of Illinois, the northern part of which is the location for its principal plants and business. It is not owned, controlled, or dominated by an alien, foreign corporation, or foreign government. It makes this application on its own behalf, and not as agent or representative of another person. The names and addresses of its directors and principal officers, all of whom are American citizens, follows:

<u>Name</u>	<u>Position</u>	<u>Address</u>
John A. Barr	Director	339 East Chicago Avenue Chicago, Illinois 60611
Joseph L. Block	Director	30 West Monroe Street Chicago, Illinois 60603

<u>Name</u>	<u>Position</u>	<u>Address</u>
Lowell T. Coggeshall	Director	Rural Route No. 3 Foley, Alabama 36535
Albert B. Dick III	Director	5700 West Touhy Avenue Chicago, Illinois 60648
Willis Gale	Director	72 West Adams Street Chicago, Illinois 60690
David M. Kennedy	Director	231 South LaSalle Street Chicago, Illinois 60690
Brooks McCormick	Director	401 North Michigan Avenue Chicago, Illinois 60611
Edward Byron Smith	Director	50 South LaSalle Street Chicago, Illinois 60690
Leroy S. Stephens	Director	Ridgeway Avenue Aurora, Illinois 60507
J. Harris Ward	Director & Chairman	72 West Adams Street Chicago, Illinois 60690
Morgan F. Murphy	Director & Chairman of the Executive Committee	72 West Adams Street Chicago, Illinois 60690
Gordon R. Corey	Director & Chairman of the Finance Committee	72 West Adams Street Chicago, Illinois 60690
Thomas G. Ayers	Director & President	72 West Adams Street Chicago, Illinois 60690
Murray Joslin	Vice-President	72 West Adams Street Chicago, Illinois 60690
Nicholas Galitzine	Vice-President	72 West Adams Street Chicago, Illinois 60690
Laurence E. Pierron	Vice-President	72 West Adams Street Chicago, Illinois 60690
Hubert H. Nexon	Vice-President	72 West Adams Street Chicago, Illinois 60690

<u>Name</u>	<u>Position</u>	<u>Address</u>
Ludwig F. Lischer	Vice-President	72 West Adams Street Chicago, Illinois 60690
Glen W. Beeman	Vice-President	72 West Adams Street Chicago, Illinois 60690
William H. Colwell	Secretary	72 West Adams Street Chicago, Illinois 60690
D. Robert Bower	Treasurer	72 West Adams Street Chicago, Illinois 60690
Grant H. Wier	Comptroller	72 West Adams Street Chicago, Illinois 60690

(e) 1. Class of license applied for.

Commonwealth requests a class 104(b) construction permit and operating license.

2. Use to which the facility will be put.

Commonwealth will use its proposed Dresden Unit 3 facility for the generation of electrical energy.

3. Period of time for which the license is sought.

Commonwealth seeks a license for forty years from the date of issuance of the construction permit.

4. Other licenses.

Commonwealth herewith applies for appropriate by-product, source, and special nuclear material licenses in connection with the proposed Dresden Unit 3 facility.

5. Allocation of special nuclear material.

Pursuant to 10 CFR 50.60, Commonwealth requests an allocation of special nuclear material for Dresden Unit 3 in the amounts and on the dates set forth in Attachment A.

(f) Financial Qualifications

Commonwealth's financial qualifications have been described in its application as amended for AEC license DPR-2 and approved by the decision issued November 12, 1959 in

AEC Docket 50-10 and in its application as amended in AEC Docket 50-237. A more current demonstration of its financial qualifications will be supplied in the immediate future in the annual report for the year 1965 and in a Memorandum Re Financial Qualification of Commonwealth Edison Company.

(g) Technical Qualifications

Commonwealth's technical qualifications have been set forth in its application as amended for AEC license DPR-2 and in the evidence submitted in AEC Dockets 50-10 and 50-237. Commonwealth's technical qualifications have been further demonstrated by the successful operation of Dresden Unit 1 for approximately six years. A detailed statement of organization and qualifications of personnel to be involved in the operation of Dresden Unit 3 will be submitted subsequently.

(h) Completion Dates

The earliest completion date for Dresden Unit 3 is estimated to be August 1, 1969, and the latest June 1, 1970.

(i) Restricted Data

Commonwealth agrees that it will not permit any individual to have access to Restricted Data until the Civil Service Commission shall have made an investigation and report to the Commission on the character, associations, and loyalty of such individual, and the Commission shall have determined that permitting such person to have access to Restricted Data will not endanger the common defense and security.

DRESDEN NUCLEAR POWER STATION

Uranium and Plutonium Balances, Unit 3(a)

(All data are weights in Kg)

Fiscal Year	Withdrawals from AEC U-235 (b)	Returns to AEC			Net Yearly Transfers U-235	Cumulative Requirements at Fiscal Year-end U-235	Losses during Fuel -		Burnup in Reactor of U-235 paid for during Fiscal Year	Financial Responsibility Balance at Year-end for U-235
		Scrap U-235	Reprocessed Fuel U-235	Fissile Pu			Fabrication U-235	Reprocessing U-235		
1969	3,133.7 (b)	-	-	-	3,133.7	3,133.7	-	-	-	3,133.7
1970	-	219.4	-	-	(219.4)	2,914.3	59.7	-	-	2,854.6
1971	1,016.4	-	-	-	1,016.4	3,930.7	-	-	419	3,452.0
1972	1,016.4	71.1	-	-	945.3	4,876.0	19.6	-	458	3,919.7
1973	372.8	71.1	-	-	301.7	5,177.7	19.6	-	455	3,746.8
1974	832.5	26.1	353.0	160.6	453.4	5,631.1	7.1	4.6	452	3,736.5
1975	643.5	58.3	381.6	253.3	203.6	5,834.7	15.9	5.0	451	3,468.2
1976	643.5	45.0	242.6	138.6	355.9	6,190.6	12.3	3.2	424	3,384.6
1977	740.6	45.0	182.1	111.5	513.5	6,704.1	12.3	2.4	417	3,466.4
1978	648.6	51.8	193.3	116.7	403.5	7,107.6	14.3	2.5	417	3,436.1
1979	556.7	45.4	218.2	134.7	293.1	7,400.7	12.4	2.9	417	3,296.9
1980	648.6	39.0	172.9	120.0	436.7	7,837.4	10.6	2.3	417	3,303.7
1981	602.6	45.4	163.0	101.4	394.2	8,231.6	12.4	2.1	383	3,300.4
1982	602.6	42.2	185.6	118.4	374.8	8,606.4	11.5	2.4	372	3,289.3
1983	602.6	42.2	174.6	110.0	385.8	8,992.2	11.5	2.3	372	3,289.3
Each year from 1984 thru 2006	602.6	42.2	174.6	110.0	385.8	From 9,378.0 to 17,865.6	11.5	2.3	372	3,289.3
2007	-	42.2	174.6	110.0	(216.8)	17,648.8	11.5	2.3	372	2,686.7
2008	-	-	174.6	110.0	(174.6)	17,474.2	-	2.3	372	2,137.8

() - Denotes red figure.

Notes:

- (a) Estimated on the basis of 2,255 megawatts thermal, and 715 megawatts net electrical, capability.
- (b) First core's enrichment estimated 2.00% U-235 by weight; all reload cores' enrichments assumed to be 2.36% U-235 by weight.

Schedule of Transfers of Special Nuclear Material from the Commission to Commonwealth Edison and to the Commission from Commonwealth Edison - Dresden 3(a)

(1)	(2)	(3)	(4)	(5)
Date of Transfer (Fiscal Year)	Transfers from AEC to Commonwealth Edison Kgs. U-235(b)	Returns by Commonwealth Edison to AEC Kgs. U-235	Net Yearly Distribution Kgs. U-235	Cumulative Distribution Inc. Cumulative Losses-Kgs. U-235
		Scrap	Depleted Fuel	
1967	-	-	-	-
1968	-	-	-	-
1969	3,133.7(b)	-	-	3,133.7
1970	-	219.4	-	(219.4)
1971	1,016.4	-	-	1,016.4
1972	1,016.4	71.1	-	945.3
1973	372.8	71.1	-	301.7
1974	832.5	26.1	353.0	453.4
1975	643.5	58.3	381.6	203.6
1976	643.5	45.0	242.6	355.9
1977	740.6	45.0	182.1	513.5
1978	648.6	51.8	193.3	403.5
1979	556.7	45.4	218.2	293.1
1980	648.6	39.0	172.9	436.7
1981	602.6	45.4	163.0	394.2
1982	602.6	42.2	185.6	374.8
1983	602.6	42.2	174.6	385.8
1984	602.6	42.2	174.6	385.8
1985	602.6	42.2	174.6	385.8
1986	602.6	42.2	174.6	385.8
1987	602.6	42.2	174.6	385.8
1988	602.6	42.2	174.6	385.8
1989	602.6	42.2	174.6	385.8
1990	602.6	42.2	174.6	385.8
1991	602.6	42.2	174.6	385.8
1992	602.6	42.2	174.6	385.8
1993	602.6	42.2	174.6	385.8
1994	602.6	42.2	174.6	385.8
1995	602.6	42.2	174.6	385.8
1996	602.6	42.2	174.6	385.8
1997	602.6	42.2	174.6	385.8
1998	602.6	42.2	174.6	385.8
1999	602.6	42.2	174.6	385.8
2000	602.6	42.2	174.6	385.8
2001	602.6	42.2	174.6	385.8
2002	602.6	42.2	174.6	385.8
2003	602.6	42.2	174.6	385.8
2004	602.6	42.2	174.6	385.8
2005	602.6	42.2	174.6	385.8
2006	602.6	42.2	174.6	385.8
2007	-	42.2	174.6	(216.8)
2008	-	-	174.6	(174.6)

() - Denotes red figure.

Notes: (a) Estimated on the basis of 2,255 megawatts thermal, and 715 megawatts net electrical, capability.

(b) First core's enrichment estimated at 2.00% U-235 by weight; all reload cores' enrichments assumed to be 2.36% U-235 by weight.