

Docket No. 50-219

DEC 15 1964

Mr. John E. Logan
Vice President
Jersey Central Power & Light Company
Madison Avenue at Punch Bowl Road
Morristown, New Jersey

Dear Mr. Logan:

Transmitted herewith is Provisional Construction Permit No. CPFR-15 which authorizes Jersey Central Power & Light Company to construct a boiling water nuclear reactor at Oyster Creek, Lacey Township, Ocean County, New Jersey.

Also enclosed is a copy of a related notice which is being submitted to the Office of the Federal Register for publication.

Sincerely yours,

Original Signed By
R.L. Doan

R. L. Doan, Director
Division of Reactor Licensing

Enclosures:

- 1. Construction Permit No. CPFR-15
- 2. Notice to Office of the Federal Register

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OFFICE ▶	DRL	OGC	DRL	DRL		
SURNAME ▶	NDMason:bjy	Boyd/Case	Boyd/Case	RLDoan		
DATE ▶	12/164	12-14-64	12/14	12/14		

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-219

JERSEY CENTRAL POWER & LIGHT COMPANY

NOTICE OF ISSUANCE OF PROVISIONAL CONSTRUCTION PERMIT

Please take notice that, pursuant to the Initial Decision of the Atomic Safety and Licensing Board dated December 4, 1964, the Director of the Division of Reactor Licensing has issued Provisional Construction Permit No. CPPR-15 to Jersey Central Power & Light Company for the construction of a boiling water nuclear reactor to be located at Oyster Creek, Lacey Township, Ocean County, New Jersey.

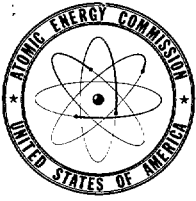
A copy of the Initial Decision is on file in the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By
R.L. Doan

R. L. Doan, Director
Division of Reactor Licensing

Dated at Bethesda, Maryland
this day of , 1964.
DEC 15 1964



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

JERSEY CENTRAL POWER & LIGHT COMPANY

DOCKET NO. 50-219

PROVISIONAL CONSTRUCTION PERMIT

Construction Permit No. CPPR-15

1. Pursuant to the Atomic Energy Act of 1954, as amended (hereinafter referred to as the Act), and Title 10, Chapter 1, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities", and pursuant to the Initial Decision of the Atomic Safety & Licensing Board in this proceeding, the Atomic Energy Commission (hereinafter referred to as the Commission) hereby issues a provisional construction permit to Jersey Central Power & Light Company (hereinafter referred to as Jersey Central or applicant) for a utilization facility (hereinafter referred to as the facility), described in the application and amendments thereto filed in this matter by the applicant and as modified by the Initial Decision of the Atomic Safety & Licensing Board.
2. 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 Act, and rules, regulations and orders of the Commission now or hereafter in effect, and is subject to the conditions specified in the Initial Decision of the Atomic Safety & Licensing Board or incorporated below:
 - A. The earliest date for the completion of the facility is January 1, 1967, and the latest date for the completion of the facility is July 1, 1968.
 - B. The facility shall be constructed and located at the site described in the application, as amended, at Oyster Creek, Lacey Township, Ocean County, New Jersey.
 - C. This provisional construction permit authorizes Jersey Central to construct the facility as described in the application, in accordance with the principal architectural and engineering criteria set forth therein and as modified by the Initial Decision of the Atomic Safety & Licensing Board.
 - D. The following conditions are required in this permit:
 - (1) That within 60 days from the effective date of this Initial Decision, unless extended by the Board for good cause, Jersey Central shall produce and submit for in camera review by the Board the sections of the definitive and executed contract between Jersey Central and General Electric which relate to their respective safety and design responsibilities for the proposed reactor.

- (2) That within 180 days from the effective date of this Initial Decision, unless extended by the Board for good cause, Jersey Central shall submit to the Board further evidence on the adequacy and safety of the thermal design of the core with especial emphasis on the safety margins available for uncertainties in order to allow a determination of the designed power level for the issuance of a provisional construction permit for this facility.
- (3) That within 180 days from the effective date of this Initial Decision, unless extended by the Board for good cause, Jersey Central shall supply the design and developmental factors, that were not presented at the hearing held in October 1964, for the following:
 - a. Absorption pool cooling
 - b. Containment system
 - c. Control rod drives
 - d. Interlocks
 - e. Iodine absorption and plate out
 - f. Leak testing
 - g. Manual scram
 - h. Metal-water reaction
 - i. Reliability of power system for spray pumps
 - j. Reactor protection during operation at partial recirculation flow
 - k. Spray system.
3. Upon completion of construction of the facility in accordance with the terms and conditions of this permit, upon filing of the additional information needed to bring the original application up-to-date, including information required by the Initial Decision of the Atomic Safety & Licensing Board, and upon a finding by the Commission that the facility has been constructed and will operate in conformity with the application, as amended, and in conformity with the provisions of the Act and the Rules and Regulations of the Commission, upon filing of proof of financial protection and execution of an indemnity agreement as required by Section 170 of the Act, 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 the Jersey Central Power & Light Company pursuant to Section 104(b) of the Act for a period of 40 years from the date of issuance of this permit.
4. This permit is provisional to the extent that a license authorizing operation of the facility will not be issued by the Commission unless Jersey Central has submitted to the Board data in accordance with the conditions of this permit, and has also submitted to the Commission, by amendment of the application, the complete Final Hazards Summary Report, portions of which may be submitted and evaluated from time to time and the data provided by the conditions of this permit, and the Commission has found that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with the specified procedures.

5. Pursuant to Section 50.60 of the regulations in Title 10, Chapter 1, CFR, Part 50, the Commission has allocated to Jersey Central for use in only a 1600 MW(t) operation of the reactor 21,246 kilograms of uranium 235 contained in uranium in the isotopic ratios specified in the application. Estimated schedules of special nuclear material transfers to Jersey Central and returns to the Commission are contained in Appendix A which is attached hereto. Transfers by the Commission to Jersey Central in accordance with Column 2 in Appendix A will be conditioned upon Jersey Central's return to the Commission of material substantially in accordance with Column 3 (including the subcolumns headed "Scrap" and "Depleted Fuel") of Appendix A.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By
R.L. Doan

Director, Division of Reactor Licensing

Attachment:
Appendix A

Date of Issuance: DEC 15 1964

APPENDIX A

ESTIMATED SCHEDULE OF TRANSFERS OF SPECIAL NUCLEAR MATERIAL
FROM THE COMMISSION TO JERSEY CENTRAL AND TO THE COMMISSION
FROM JERSEY CENTRAL

<u>Date of Transfer (Fiscal Year)</u>	<u>Transfers from AEC to JC</u>	<u>Returns from JC to AEC</u>		<u>Net Yearly Transfers</u>	<u>Cumulative Requirements Including Cu- mulative Losses</u>
		(a) kg U-235	Scrap (a) kg U-235		
1965	2418 (c)	-----	-----	2418	2418
1966	-----	152 (c)		(152)	2266
1967	-----	-----	-----	-----	-----
1968	712	-----	-----	712	2978
1969	1424	45		1397	4357
1970	712	90	297 (d)	325	4682
1971	712	45	460 (e)	207	4889
1972	712	45	152 (f)	515	5404
1973	712	45	253 (g)	414	5818
1974	712	45	235 (h)	432	6250
1975	712	45	222 (i)	445	6695
1976	712	45	220 (j)	447	7142
1977	712	45	233 (k)	434	7576
1978	712	45	228 (l)	439	8015
1979	712	45	225	442	8457
1980	712	45	226	441	8898
1981	1424	45	226	1153	10051
1982	712	90	226	396	10447
1983	712	45	452	215	10662
1984	712	45	226	441	11103
1985	712	45	226	441	11544
1986	712	45	226	441	11985

ESTIMATED SCHEDULE OF TRANSFERS OF SPECIAL NUCLEAR MATERIAL
FROM THE COMMISSION TO JERSEY CENTRAL AND TO THE COMMISSION
FROM JERSEY CENTRAL

Date of Transfer (Fiscal Year)	Transfers from AEC to JC (a)	Returns from JC to AEC		Net Yearly Transfers	Cumulative Requirements Including Cu- mulative Losses
		Scrap (a)	Depleted Fuel (b)		
1987	712	45	226	441	12426
1988	712	45	226	441	12867
1989	712	45	226	441	13308
1990	712	45	226	441	13749
1991	712	45	226	441	14190
1992	1424	45	226	1153	15343
1993	712	90	226	396	15739
1994	712	45	452	215	15954
1995	712	45	226	441	16395
1996	712	45	226	441	16836
1997	712	45	226	441	17277
1998	712	45	226	441	17718
1999	712	45	226	441	18159
2000	712	45	226	441	18600
2001	712	45	226	441	19041
2002	712	45	226	441	19482
2003	1424	45	226	1153	20635
2004	712	90	226	396	21031
2005	712	45	452	215	21246
2006	-----	45	226	(271)	20975
2007	-----	24(m)	226	(250)	20725
2008	-----		1537(n)	(1537)	19188
				<u>19,188</u>	

NOTE: Based on Power Levels of 1600 MWT the First Year, 1775 MWT the Second Year and 1950 MWT after the Second Year

- (a) 2.5% U-235 except (c)
- (b) 0.90% U-235 except (d), (e), (f), (g), (h), (i), (j)
- (c) 2.1% U-235
- (d) 1.168% U-235
- (e) 255 kg @ 1.004% U-235 205 kg @ 0.813% U-235
- (f) 0.606% U-235
- (g) 1.006% U-235
- (h) 0.935% U-235
- (i) 0.886% U-235
- (j) 0.875% U-235
- (k) 0.928% U-235
- (l) 0.906% U-235
- (m) Added to initial fuel requirements for possible spares amounting to 1%
- (n) 226 kg @ 0.90% U-235 332 kg @ 1.30% U-235
437 kg @ 1.70% U-235 542 kg @ 2.1% U-235