

Docket No. 50-382

NOV 14 1974

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 Docket
 LWR 2-2
 R. Black, OGC
 RO (3)
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 P. Kreutzer, EP
 D. Muller, EP
 B. Scharf
 ACRS (16)
 R. Benedict
 M. Service

Louisiana Power and Light Company
 Attn: Mr. J. M. Wyatt
 Senior Vice President
 142 Delaronde Street
 New Orleans, Louisiana 70174

Dear Mr. Wyatt:

Construction Permit No. CPPR-103 is enclosed, together with a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

The construction permit authorizes Louisiana Power and Light Company to construct the Waterford Steam Electric Station, Unit 3. The plant, utilizing a pressurized water nuclear reactor, will be located in St. Charles Parish, Louisiana.

Sincerely,

Original signed by
 K. Kniel

Karl Kniel, Chief
 Light Water Reactors Branch 2-2
 Directorate of Licensing

Enclosures:

1. Construction Permit
2. Federal Register Notice

ccs: See page 2

OFFICE >	LWR 2-2	LWR 252 <i>Carb</i>	LWR 272	OGC	OGC	EP
SURNAME >	MS <i>MS</i>	RBenedict	KKniel	RBlack <i>RBlack</i>	JRutberg	DM <i>DM</i>
DATE >	10/17/74	10/9/74	10/14/74	10/13/74	10/14/74	10/3/74

ccs w/encl:

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 Monroe & Leman
 1424 Whitney Building
 New Orleans, Louisiana 70130

George F. Trowbridge, Esq.
 Shaw, Pittman, Potts & Trowbridge
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 Washington, D. C. 20006

D. L. Aswell
 Production Manager
 Louisiana Power and Light Company
 142 Delaronde Street
 New Orleans, Louisiana 70174

Roosevelt A. Dufrene
 President, Police Jury
 St. Charles Parish
 Hanville, Louisiana 70057

Mr. Donald R. Hebert, Coordinator
 Louisiana Department of Commerce and Industry
 Atomic Energy Development Division
 P. O. Box 44185
 Baton Rouge, Louisiana 70804

Mr. B. Jim Porter, Director
 Division of Radiation Control
 Louisiana Board of Nuclear Energy
 P. O. Box 44033
 Capitol Station
 Baton Rouge, Louisiana 70804

Mr. Charles Hembree
 Environmental Protection Agency
 1600 Patterson Street
 Dallas, Texas 75201

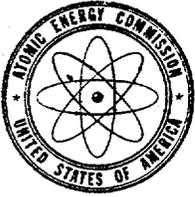
Mr. Bruce Blanchard, Director
 Environmental Projects Review
 Department of the Interior
 Room 5321
 18th and C Streets, N. W.
 Washington, D. C. 20240

Chief, TIRB
 Technology Assessment Division
 Office of Radiation Programs
 U.S. Environmental Protection
 Agency
 Room 647A, East Tower
 Waterside Mall
 401 M Street, S. W.
 Washington, D. C. 20460

bcc:

JRBuchana, ORNL
 RBAbernathy, DTIE
 ARosenthal, ASLAB
 NGoodrich, ASLBP

OFFICE >						
SURNAME >						
DATE >						



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

LOUISIANA POWER & LIGHT COMPANY

DOCKET NO. 50-382

WATERFORD STEAM ELECTRIC STATION, UNIT 3

CONSTRUCTION PERMIT

Construction Permit No. CPPR-103

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Louisiana Power & Light Company (the applicant) has described the proposed design of the Waterford Steam Electric Station, Unit 3 (the facility), including but not limited to, the principal architectural and engineering criteria for the design and has identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and that can reasonably be left for later consideration, will be supplied in the final safety analysis report;
 - D. Safety features or components, if any, that require research and development have been described by the applicant and the applicant has identified, and there will be conducted, a research and development program reasonably designed to resolve any safety questions associated with such features or components;
 - E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility, and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;

- F. The applicant is technically qualified to design and construct the proposed facility;
 - G. The applicant is financially qualified to design and construct the proposed facility;
 - H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
 - I. After weighing the environmental, economic, technical and other benefits of the facility against environmental costs and considering available alternatives, the issuance of a construction permit, subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations, and all applicable requirements of said Appendix D have been satisfied.
2. Pursuant to Section 103 of the Atomic Energy Act of 1954, as amended (the Act), and Title 10, Chapter I, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decisions of the Atomic Safety and Licensing Boards dated April 30, 1974 and November 14, 1974, the Atomic Energy Commission (the Commission), hereby issues a construction permit to the applicant for a utilization facility designed to operate at 3390 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the applicant and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Waterford Steam Electric Station, Unit 3, will be located on the applicant's site in St. Charles Parish, Louisiana.
3. 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 or incorporated below:
- A. The earliest date for the completion of the facility is June 1, 1978, and the latest date for completion is December 31, 1979.
 - B. The facility shall be constructed and located at the site as described in the application, in St. Charles Parish, Louisiana.
 - C. This construction permit authorizes the applicant to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.

D. This facility is subject to the following antitrust conditions:

- (1) (a) As used herein, "entity" shall mean any municipality, rural electric cooperative, public or private corporation, governmental agency such as TVA and Southwest Power Administration, or lawful association of any of the foregoing (a) which lawfully exists and owns and operates or proposes in good faith to own or operate facilities for generation of electric power and energy; (b) which, with exception of municipalities, rural electric cooperatives and governmental agencies, is or will upon commencement of operations be a public utility (or in the case of an association each member thereof, excepting municipalities, rural electric cooperatives and governmental agencies, is a public utility) under the law of Louisiana and the Federal Power Act and provides or upon commencement of operations will provide electric service under contracts or rate schedules on file with and subject to regulation of the Louisiana Public Service Commission and the FPC; and (c) with which applicant has or may feasibly have a physical interconnection within the State of Louisiana.

For the purposes of paragraphs 5 and 6 hereof, any person who would otherwise qualify as an "entity" herein above except for not meeting the requirements of 1(a) shall be considered an "entity" if that person owns or operates or proposes in good faith to own or operate facilities for generation, transmission and/or distribution of electric power and energy.

- (b) "Cost" means any operating and maintenance expenses involved together with any ownership costs which are reasonably allocable to the transaction consistent with power pooling practices (where applicable). No value shall be included for loss of revenues from sale of power at wholesale or retail by one party to a customer which another party might otherwise serve. Cost shall include a reasonable return on the applicant's investment. The sale of a portion of the capacity of a generating unit shall be upon the basis of a rate that will recover to the seller the pro rata part of the fixed costs and operating and maintenance expenses of the unit, provided that, in circumstances in which the applicant and one or more entities in Louisiana take an undivided interest in a unit in fee, construction costs and operation and maintenance expenses shall be paid pro rata.

- (2) (a) The applicant shall interconnect and share reserves on an equalized percentage reserve basis with any entity in Louisiana which engages in or proposes to engage in electric generation and/or bulk power purchases on terms that will provide for the applicant's costs, and allow the other participant(s) full access to the benefits of reserve sharing coordination, and in addition, shall include but not be limited to emergency service, scheduled maintenance service, and establishing reserves. Such interconnection shall be at a voltage and capacity requested by such entity whenever it is economically feasible for the parties.
- (b) Emergency service and/or scheduled maintenance service to be provided by each party shall be furnished to the fullest extent available from the supplying party and desired by the party in need. The applicant and each party(ies) shall provide to the other emergency service and/or scheduled maintenance service if and when available from its own generation and from generation of others to the extent it can do so without impairing service to its customers including other electric systems to whom it has firm commitments.
- (c) The applicant and the other party(ies) to a reserve sharing arrangement shall from time to time jointly establish the minimum reserves to be installed and/or provided under contractual arrangements as necessary to maintain in total a reserve margin sufficient to provide adequate reliability of power supply to the interconnected systems of the parties. If the applicant plans its reserve margin on a pooled basis with other Middle South System companies, the reserves jointly established hereunder shall be on the same basis. Unless otherwise agreed upon, minimum reserves shall be calculated as a percentage of estimated peak load responsibility. No party to the arrangement shall be required to maintain greater reserves than the percentage of its estimated peak load responsibility which results from the aforesaid calculation, provided that, if the reserve requirements of the applicant are increased over the amount the applicant would be required to maintain without such interconnection, then the other party(ies) shall be required to carry or provide for as its (their) reserves the full amount in kilowatts of such increase.

- (d) The parties to such a reserve sharing arrangement shall provide such amounts of ready reserve capacity as may be adequate to avoid the imposition of unreasonable demands on the other in meeting the normal contingencies of operating its system. However, in no circumstances shall the ready reserve requirement exceed the installed reserve requirement.
 - (e) Interconnections will not be limited to low voltages when higher voltages are available from the applicant's installed facilities in the area where interconnection is desired, when the proposed arrangement is found to be technically and economically feasible. Control and telemetering facilities shall be provided as required for safety and prudent operation of the interconnected systems.
 - (f) Interconnection and coordination agreements shall not embody any restrictive provisions pertaining to intersystem coordination. Good industry practice as developed in the area from time to time (if non-restrictive) will satisfy this provision.
- (3) The applicant will purchase (when needed) or sell (when available) "unit power" or "deficiency power" at mutually agreed upon delivery points on or adjacent to its transmission system from or to any entity engaging in or proposing to engage in electric generation and/or bulk power purchases at the cost (including a reasonable return) of new power supply, as distinguished from average system cost, when such transaction would serve to reduce the overall cost of new bulk power supply for itself and the other participant to the transaction.
- (4) With respect to Waterford Nuclear Unit No. 3 and any future nuclear generating plant or unit of the applicant, or any plant or unit in which the applicant may acquire an interest in Louisiana, any entity that expresses an interest in participation will be offered (1) for Waterford Nuclear Unit No. 3 and for any future nuclear generating plant or unit of the applicant, the opportunity to have access* to a portion of the plant or unit capacity, or (2) with respect to any plant or unit in which the applicant may acquire an interest, the opportunity to have access* to a portion of the plant or unit capacity to the

*"The opportunity to have access" shall be for a period of one year after the applicant has provided to each enquiring entity financial data, which in the opinion of the Regulatory staff of the Commission is sufficient to enable such entity to make a feasibility study as to participation. The applicant shall provide such financial data as soon as reasonably feasible after receiving an inquiry. As to any entity or some or all entities in Louisiana the applicant can start the running of the aforesaid one year period by supplying to it or them, without waiting for an inquiry, the aforesaid financial data.

extent the applicant is able; in either event, upon the basis of a rate that will recover to the applicant the average fixed costs (including a reasonable return) of the plant or unit or the applicant's interest in any plant or unit.** The entity receiving such power will pay the associated energy, maintenance, and operating costs incurred for the power it receives. In connection with this access, the applicant will also offer transmission service to the geographic extent of its then existing transmission system for delivery of such power to such purchasing entity on a basis that will fully compensate the applicant for its transmission costs (including a reasonable return).

In the event that during the term of the instant license, or any extension or renewal thereof, the applicant participates in the ownership of or obtains rights to, and obligations in, a portion of the output of one or more nuclear generating units constructed, owned or operated by an affiliate or subsidiary of the Middle South Utilities System other than the applicant or by any successor in title to the Waterford Nuclear Unit, the applicant shall exert its best efforts to obtain participation in such nuclear unit by an entity(ies) in the State of Louisiana requesting such participation on terms equivalent to the terms of the applicant's participation therein. In connection with such participation, the applicant will also offer transmission service to the geographic extent of its then existing transmission system for delivery of such power to such purchasing entity on a basis that will fully compensate the applicant for its transmission cost (including a reasonable return).

For the purposes of this paragraph, any person who would otherwise qualify as an "entity" except for the lack of a physical interconnection with the applicant shall be considered an "entity" if that person is or will be interconnected with an "entity" or member of the Southwest Power Pool which is interconnected with the applicant.

**Nothing herein shall be deemed to exclude the participation of an entity through a prepaid unit power basis should such participation be economically, technically and legally feasible. Moreover, nothing herein shall exclude participation of an entity on a joint venture basis if the applicant shall in its sole discretion decide to enter into such a joint venture.

- (5) The applicant shall transmit power and energy over its transmission facilities among entities in the State of Louisiana with which it is interconnected and has or will have a transmission schedule in effect. For each coordinating group of entities there shall be a single transmission charge. In addition, for any entity with whom applicant is interconnected, the applicant will transmit to or from that entity's then existing interconnection with the applicant, power delivered to the applicant by another entity (or from the applicant to another entity) whose transmission facilities adjoin those of the applicant, provided (1) there is or will be a transmission schedule in effect, and (2) the arrangements reasonably can be accommodated from a functional and technical standpoint. The transmission of such power and energy shall be at a rate that will fully compensate the applicant for its costs (including a reasonable return) for the use of its system. Any entity or group of entities requesting such transmission arrangements shall give reasonable advance notice of its schedule and requirements. (The foregoing applies to any entities to which the applicant may be interconnected in the future as well as those to which it is now interconnected.)

The applicant shall include in its planning and construction program sufficient transmission capacity as required for the transactions referred to in the above paragraph, and in those instances where such transactions are consummated, a transmission schedule(s) shall be placed in effect; provided that any entity in the State of Louisiana give the applicant sufficient advance notice as may be necessary to accommodate its requirements from a functional and technical standpoint and that such entity fully compensates the applicant for its cost (including a reasonable return). The applicant shall not be required to construct transmission facilities which will be of no demonstrable present or future benefit to the applicant.

For the purposes of this paragraph, (1) any person in the State of Louisiana who would otherwise qualify as an "entity" except for the lack of a physical interconnection with the applicant shall be considered an "entity" if that person is or will be interconnected with an "entity" or member of the Southwest Power Pool which is interconnected with the applicant; and (2) Arkansas Power and Light Company, Mississippi Power and Light Company, and Mississippi Power Company, or any successor thereof, shall also be considered "entities."

- (6) The applicant will enter into arrangements mutually agreed upon for the sale of power and energy under its effective [rate schedule] tariffs to any entity that owns an electric distribution system and has or may feasibly have a physical interconnection within the State of Louisiana. In connection with such arrangements, the applicant shall not be required to construct facilities which will be of no demonstrable present or future benefit to the applicant.
 - (7) It is recognized that the foregoing conditions are to be implemented in a manner consistent with the provisions of the Federal Power Act to the extent applicable, and all rates, charges or practices in connection therewith are to be subject to the approval of regulatory agencies having jurisdiction over them.
- E. This facility is subject to the following conditions for the protection of the environment:
- (1) The applicant shall take the necessary mitigating action during construction of the Station and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities.
 - (2) An environmental surveillance program shall be established and carried out as outlined in the applicant's environmental report (Supplement 6) and in the Final Environmental Statement, as amended.
 - (3) Before engaging in a construction activity that may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the Final Environmental Statement, the applicant shall provide written notification to the Director of Licensing.
 - (4) If unexpected harmful effects or evidence of irreversible damage are detected during facility construction, the applicant shall provide an acceptable analysis of the problem and a plan of action to eliminate or significantly reduce the harmful effects or damage.
 - (5) If on the basis of the applicant's post-operational monitoring program, a thyroid dose in excess of 7.5 millirem per quarter is calculated, the applicant will take prompt action acceptable to the staff to insure that the actual thyroid dose to

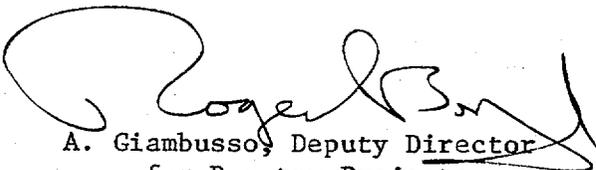
any individual does not exceed the 15 millirem per year design objective. This condition is based on AEC Regulatory Guide 1.42. It is understood that if and when the Commission regulation is promulgated which effectively replaces Regulatory Guide 1.42, then that regulation will be controlling and this condition will be appropriately modified.

- (6) The applicant shall provide the necessary systems and equipment to limit discharges from the facility to comply with effluent limitations established in accordance with the requirements of the Federal Water Pollution Control Act, unless an alternative limitation is established pursuant to § 316(a), or otherwise pursuant to the FWPCA.

Prior to any work on the condenser cooling discharge system, the applicant shall submit a description of the systems required under this paragraph if such systems are different from those contained in the PSAR, as amended.

4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the applicant submits to the Commission the complete final safety analysis report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds 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 procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 51 of the Commission's regulations and that all applicable requirements were satisfied; and (d) the applicant submits proof of financial protection and the execution of an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE ATOMIC ENERGY COMMISSION



A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Date of Issuance:

NOV 14 1974

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-382

LOUISIANA POWER & LIGHT COMPANY

WATERFORD STEAM ELECTRIC STATION, UNIT 3

NOTICE OF ISSUANCE OF CONSTRUCTION PERMIT

Notice is hereby given that, pursuant to the Initial Decisions of the Atomic Safety and Licensing Boards dated April 30, 1974, and November 14, 1974, the Atomic Energy Commission (the Commission) has issued Construction Permit No. CPPR-103 to Louisiana Power & Light Company for construction of a pressurized water nuclear reactor at the applicant's site in St. Charles Parish, Louisiana. The proposed reactor, known as the Waterford Steam Electric Station, Unit 3, is designed for a rated power of approximately 3390 megawatts thermal with a net electrical output of approximately 1165 megawatts.

The Initial Decisions are subject to review by an Atomic Safety and Licensing Appeal Board prior to their becoming final. Any decision or action taken by an Atomic Safety and Licensing Appeal Board in connection with the Initial Decisions may be reviewed by the Commission.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the

Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the construction permit. The application for the construction permit complies with the standards and requirements of the Act and the Commission's rules and regulations.

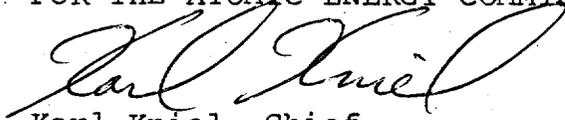
The construction permit is effective as of its date of issuance. The earliest date for the completion of the facility is June 1, 1978, and the latest date for completion is December 31, 1979. The permit shall expire on the latest date for completion of the facility.

A copy of (1) the Initial Decision dated April 30, 1974; (2) Construction Permit No. CPPR-103; (3) the report of the Advisory Committee on Reactor Safeguards dated January 17, 1973; (4) the Directorate of Licensing's Safety Evaluation dated December 29, 1972, with Supplements 1 and 2 thereto dated June 1, 1973, and January 31, 1974; (5) the Preliminary Safety Analysis Report and amendments thereto; (6) the applicant's revised Environmental Report dated February 1972, and supplements thereto; (7) the Draft Environmental Statement dated October 1972; and (8) the Final Environmental Statement dated March 1973, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W.,

Washington, D. C., and the Boutee Branch of the St. Charles Parish Library, St. Anthony Street, Luling, Louisiana 70070. A copy of the construction permit and the Safety Evaluation may be obtained upon request addressed to the U.S. Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this ^{14th} day of **November 1974**.

FOR THE ATOMIC ENERGY COMMISSION



Karl Kniel, Chief
Light Water Reactors Branch 2-2
Directorate of Licensing