ARKANSAS POWER AND LIGHT COMPANY

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 1
License No. DPR-51

1. The Atomic Energy Commission (the Commission) having found that:

   A. The application for amendment by Arkansas Power & Light Company (the licensee) dated November 20, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;

   C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   E. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.c.(2) of Facility License No. DPR-51 is hereby amedded to read as follows:

   "(2) Technical Specifications

   The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications as revised by Change No. 1."

OFFICE ➔						
SURNAME ➔						
DATE ➔				8004220908		

3. This license amendment is effective as of the date of its issuance.

FOR THE ATOMIC ENERGY COMMISSION

signed by
Robert A Purple

for Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 1 to
Technical Specifications

Date of Issuance: NOV 22 1974

OFFICE ➤						
SURNAME ➤						
DATE ➤						

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 1 TO FACILITY OPERATING LICENSE NO. DPR-51

CHANGE NO. 1 TO TECHNICAL SPECIFICATIONS

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNIT 1

DOCKET NO. 50-313

Revise Appendix B as follows:

Remove pages 2-1 and 2-2 and insert the attached revised pages bearing the same numbers. The changed areas on the revised pages are shown by marginal lines.

OFFICE ▶						
SURNAME ▶						
DATE ▶						

ARKANSAS POWER AND LIGHT COMPANY

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 1
License No. DPR-51

1. The Atomic Energy Commission (the Commission) having found that:

   A. The application for amendment by Arkansas Power & Light Company (the licensee) dated November 20, 1974, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;

   B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;

   C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;

   D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and

   E. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.

2. Accordingly, the license is amended by a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.c.(2) of Facility License No. DPR-51 is hereby amended to read as follows:

   "(2) Technical Specifications

   The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications as revised by Change No. 1."

3. This license amendment is effective as of the date of its issuance.

FOR THE ATOMIC ENERGY COMMISSION

for Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 1 to
Technical Specifications

Date of Issuance: NOV 22 1974

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 1 TO FACILITY OPERATING LICENSE NO. DPR-51

CHANGE NO. 1 TO TECHNICAL SPECIFICATIONS

ARKANSAS POWER AND LIGHT COMPANY

ARKANSAS NUCLEAR ONE, UNIT 1

DOCKET NO. 50-313

Revise Appendix B as follows:

Remove pages 2-1 and 2-2 and insert the attached revised pages bearing the same numbers. The changed areas on the revised pages are shown by marginal lines.

DUPE OF PRECEDING.

2.0 LIMITING CONDITIONS FOR OPERATION

2.1 Thermal

2.1.1 Maximum ΔT Across Condenser

Objective

To limit thermal stress to the aquatic ecosystem by limiting the maximum ΔT across the condenser during operation.

Specification:

a. The maximum differential temperature across the condenser shall not exceed 15°F during normal operation with all four circulating water pumps in operation.

b. If one or two circulating water pumps are out of service at any given time the maximum condenser ΔT shall not exceed 30°F; and Specification 2.1.2 of this Appendix shall be met.

Monitoring Requirement

The temperature differential across the condenser shall be monitored every hour utilizing the computer output of the condenser inlet and outlet temperature measurements. The range of these measurements shall be 0-150°F and their accuracy shall be ±0.5%.

If the plant computer is inoperable and until the condenser outlet temperature sensor is relocated in the discharge canal, the condenser ΔT shall be monitored at least once each shift when the plant is operating at steady state power levels. The condenser ΔT shall be measured within two (2) hours after a change in power level has been stabilized and at least once each shift thereafter. The condenser ΔT shall be determined using measurements at the condenser inlet and in the discharge canal. 1

Bases

Maximum ΔT's of 15°F with 4 circulating water pumps operating (~1700 cfs flow) and 30°F with 2 circulating water pumps operating will insure that the limits of the applicable water quality criteria will not be exceeded. The difference in temperature readings of the RTD's at the inlet and outlet of the condensers provides the ΔT across the condensers.

Specification 2.1.1.b allows maintenance to be performed on circulating water pumps when the Dardanelle Reservoir ambient temperature is such that Specification 2.1.2 will not be exceeded. Hydraulic model studies have shown that a 30°F ΔT at 850 cfs circulating waterflow will not result in adverse changes in the Dardanelle Reservoir isotherms when

compared to the isotherms resulting from a 15°F ΔT at 1700 cfs except on the surface of the discharge embayment.

2.1.2 Maximum Discharge Temperature

Objective

To limit thermal stress to the aquatic ecosystem by limiting the plant's maximum discharge water temperature.

Specification

The condenser discharge water temperature shall not exceed 105°F for more than two consecutive hours. If the water temperature exceeds 105°F for two hours an investigation of the situation will be undertaken and corrective action shall be taken to maintain the discharge water temperature at 105°F or less. One such corrective action would be a reduction in the plant power level unless there is an emergency need for the lost power. This emergency need would exist when a reduction in power would mean cutting off firm customers. If monitoring (see below) indicates that the temperature at the mouth of the discharge embayment is $\leq$ 105°F, the plant load will not be reduced.

Monitoring Requirements

Condenser discharge water temperature shall be monitored every hour utilizing the average of the computer output of the condenser discharge RTD readings. The RTD's have a 0-150°F range and an accuracy of ±0.5%.

If the plant computer is inoperable and until the condenser outlet temperature sensor is relocated in the discharge canal, the condenser discharge temperature shall be measured at least once each shift. If the condenser inlet temperature exceeds 85°F with all four circulating water pumps running or 70°F with less than four circulating water pumps running, the condenser outlet temperature shall be monitored every two (2) hours. 1

If the condenser discharge water temperature exceeds 105°F, plant personnel will be dispatched to the mouth of the discharge embayment to monitor the exit temperature from the embayment. Monitoring of the embayment will continue every two hours as long as the condenser outlet temperature remains at 105°F.

Bases

The 105°F maximum discharge water temperature limit is set to assure that the Dardanelle Reservoir temperature does not exceed