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Mr. William Cavanaugh, III
Senior Vice President,
Energy Supply
Arkansas Power & Light Company
P. O. Box 551
Little Rock, Arkansas 72203



Dear Mr. Cavanaugh:

The Commission has issued the enclosed Amendment No. 65 to Facility Operating License No. DPR-51 for Arkansas Nuclear One, Unit No. 1, in response to your applications dated August 17 and September 24, 1981, as supplemented by changes which your staff endorsed in telephone conversations with the NRC staff.

This amendment revises the Technical Specifications (TSs) contained in Appendix B to delete certain nonradiological water quality surveillance requirements of Sections 2.1 and 4.1. The deletion of these nonradiological water quality surveillance requirements is based on Atomic Safety and Licensing Appeal Board decisions (ALAB-515, 569 and 532) which determined that the NRC does not have authority for water quality because the Clean Water Act places full responsibility for these matters with the Environmental Protection Agency. The NRC will rely on this agency for protection of the aquatic environment.

This action is considered a ministerial action required as a matter of law, and no environmental impact statement or negative declaration and environmental impact appraisal need be prepared. This amendment does not involve significant new safety information of a type not considered in previous Commission safety reviews of the facility. It does not involve a significant increase in the probability or consequences of an accident, does not involve a significant decrease in a safety margin, and therefore, does not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

We suggest that you also request to have the other water quality requirements still in the Appendix B TSs deleted and the remaining nonradiological requirements restructured into an Environmental Protection Plan (EPP) similar to Enclosure No. 1. There is no fee requirement for review of applications for amendments which deal solely with deleting nonradiological water quality requirements from the Appendix B TSs.

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OFFICE							
SURNAME							
DATE							

Mr. William Cavanaugh, III

-2-

If there are questions with regard to the above, contact your NRC Project Manager for ANO-1.

A copy of the Notice of Issuance is also enclosed.

Sincerely,

"ORIGINAL SIGNED BY
JOHN F. STOLZ"

John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosures:

- 1. Amendment No. 65 to DPR-51
- 2. EPP
- 3. Notice

cc w/enclosures:
See next page

OFFICE	ORB#4:DL RIngram	ORB#4:DL GVH/sing/cb	C-ORB#4:DL JStolz	AD-OR:DL Novak	OELD Jones		
SURNAME							
DATE	5/3/82	5/3/82	5/8/82	5/10/82	5/11/82		

10 legal obj. to suit + FRN

Arkansas Power & Light Company

cc w/enclosure(s):

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Manager, Licensing
Arkansas Power & Light Company
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General Manager
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U.S. Nuclear Regulatory Commission
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Honorable Ermil Grant
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Regional Radiation Representative
EPA Region VI
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Mr. John T. Collins, Regional Administrator
U. S. Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

cc w/enclosure(s) & incoming dtd.:
8/17 & 9/24/81

Director, Bureau of Environmental
Health Services
4815 West Markham Street
Little Rock, Arkansas 72201



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ARKANSAS POWER & LIGHT COMPANY

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE - UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 65
License No. DPR-51

1. The Nuclear Regulatory Commission (the Commission) has found that:
- A. The applications for amendment by Arkansas Power and Light Company (the licensee) dated August 17 and September 24, 1981, comply 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 applications, 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. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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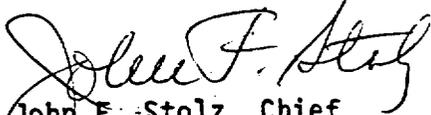
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.c.(2) of Facility Operating License No. DPR-51 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 65, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION


John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 18, 1982

ATTACHMENT TO LICENSE AMENDMENT NO. 65

FACILITY OPERATING LICENSE NO. DPR-51

DOCKET NO. 50-313

Replace the following pages of the Appendix "B" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. Overleaf pages are provided to maintain document completeness.

i

2-3

2-4

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Effective January 19, 1975, activities under the U. S. Atomic Energy Commission regulatory program were assumed by the U. S. Nuclear Regulatory Commission in accordance with the Energy Reorganization Act of 1974. Any references to the Atomic Energy Commission (AEC) contained herein should be interpreted as Nuclear Regulatory Commission (NRC).

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established by the applicable water quality criteria. The use of the circulating water discharge flume RTD's provides the circulating water discharge temperature prior to mixing with the Dardanelle Reservoir water.

No credit was taken in the analyses and models of the circulating water system for heat exchange within the discharge embayment even though it is expected that the water temperature will be reduced in the embayment. Thus, the average temperature should be $<105^{\circ}\text{F}$ even when the temperature at the circulating water discharge flume is greater.

2.1.3 Maximum BTU/hr

Not applicable.

2.1.4 Rate of Change of Discharge Temperature

Deleted

2.1.5 Heat Treatment of Circulating Water System

Not Applicable.

2.1.6 Deicing Operations

Not Applicable.

b) Trawling Survey

Samples will be taken every other week during March, April, May, and June. Emphasis will be on larval fishes. Relative abundance and species composition will be determined. Spines, scale samples and length/frequencies shall be obtained for representatives of each species. Population count and species shall be reported.

c) Trap Net Survey

Trapnets shall be placed out in the spring and fall each year with lifts made for five (5) consecutive days. Spines, scale samples and length/weight frequencies shall be obtained for representatives of each species. Population count and species shall be reported.

d) Cove Rotenone Survey

The cove rotenone survey using standard procedures approved by the Arkansas Game and Fish Commission shall take place in sample area 18 and "control area" 19 in September. Spine, scale samples and length/weight frequencies shall be obtained for representatives of each species, and growth rate shall be determined. Population counts shall be reported.

e) Shoreline Seine Surveys

Deleted

f) Fish Cage Survey

Cages containing mussels shall be placed at sample stations shown in Table 4-3 and marked for recovery. Mussel samples shall be recovered semi-annually and retained for radiological testing.

Reporting Requirement

This survey shall be carried out by:

- (a) The University of Arkansas at Little Rock (UALR)
- (b) Arkansas Polytechnic College, Russellville, Arkansas
- (c) Arkansas Power & Light Company.

Annual meetings shall be held to discuss the results of the survey and, if necessary for better data, make modifications in the survey.

Reports shall be provided to AP&L at least every six months and copies shall be distributed to the Arkansas Department of Pollution Control and Ecology, UALR, U. S. Corps of Engineers, U. S. Department of Interior (Bureau of Sports Fisheries and Wildlife), Arkansas Game and Fish Commission, U. S. Environmental Protection Agency, U. S. Atomic Energy Commission, the Arkansas State Department of Health, (Bureau of Environmental Health Services).

Bases:

The purpose of the proposed programs is to monitor possible influences by Arkansas Nuclear One on aquatic life in Lake Dardanelle. The programs are set up so as to sample various levels in the food chain to detect any abnormalities in number, distribution, size, or physical characteristics of the organisms.

Sample stations were selected at various points in the area around the site so that data could be collected and a range of plant influence could be determined. By selecting points at the intake and discharge coves, direct changes in the lake water can be observed. The points upstream and in the Illinois Bayou were selected to monitor upstream aquatic life and plant influence. Stations were selected at scattered locations throughout the river channel so that ANO effects could be surveyed.

TABLE 4-3

AQUATIC SAMPLING LOCATION AND FREQUENCIES

<u>Sample Type</u>	<u>Sample Frequency</u>	<u>Sample Station #</u>
Plankton	Quarterly - January, April July, October	1, 2, 3, 5, 10, 11, 14, 15, 16, 21
Benthic Organisms	Quarterly - January, April July, October	1, 2, 3, 5, 10, 11, 14, 15, 16, 21
Gill Net Survey	2 sets of 2 net-nights in each area within 30 days of each quarter	Areas A, B, C, D,
Trawling Survey	Two samples in each area every other week March, April, May, June	Areas A, B, C, D
Trap Net Survey	5 consecutive days Spring and Fall	Areas A, B, D
Cove Rotenone Survey	September	Areas A, C
Fish Cage Survey (Mussels)	Semi-Annually	Areas A, B, C, D
Chemical	Monthly	1*, 3, 5, 7, 8, 10, 11, 13, 14, 15, 16, 17, 21
Physical	Monthly	3, 5, 7, 8, 10, 11, 13, 14, 15, 16, 17, 21

*Chemical tests 1, 6, 10, 11, 12 and 13 shown on Table 4-5 shall be performed at Sample Station #1.

TABLE 4-4

PHYSICAL MEASUREMENTS

1. Air Temperature
2. Sky Condition
3. Wind mph
4. Solar BTU Radiation
5. Water Condition
6. Water Level
7. Water Temperature
8. Local Fishing Conditions
(Commercial Fishing Activity)

APPENDIX B

TO FACILITY OPERATING LICENSE NO. DPR-76
DIABLO CANYON NUCLEAR GENERATING STATION
UNIT 1

PACIFIC GAS AND ELECTRIC COMPANY
DOCKET NOS. 50-275 and 50-323

ENVIRONMENTAL PROTECTION PLAN
(NON-RADIOLOGICAL)

September 1981

8205280046

DIABLO CANYON NUCLEAR GENERATING STATION
UNIT 1

ENVIRONMENTAL PROTECTION PLAN
(NON-RADIOLOGICAL)
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1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of environmental values during construction and operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the plant is operated in an environmentally acceptable manner, as established by the FES and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation and of actions taken to control those effects.

Environmental concerns identified in the FES which relate to water quality matters are regulated by way of the licensee's NPDES permit.

2.0 Environmental Protection Issues

The staff identified in the FES-OL dated May 1973 and FES-OL Addendum, dated May 1976 certain environmental issues which required study or license conditions to resolve environmental concerns and to assure adequate protection of the environment during the operation of the Diablo Canyon Nuclear Generating Station Units 1 and 2. On June 12, 1978, the Atomic Safety and Licensing Board issued a partial initial decision in favor of licensing Diablo Canyon Units 1 and 2 subject to certain conditions for the protection of the environment. The conditions needed to resolve these concerns resulting from the environmental impact review are as follows:

2.1 Aquatic Issues

Specific aquatic issues raised by the staff or the hearing board were:

- (1) The need to control the release of chlorine and study its effects on marine life (FES-OL Sections 3.5, 5.3, 6.3, 12.3, and 13.3)
- (2) The need to study the amount, persistence, and stabilization of foam generated by the discharge of cooling water (FES-OL Addendum Section 5.2, ASLB, p. 97)
- (3) The need to confirm that thermal mixing and current patterns occur as predicted and that heat treatment is limited. (FES-OL Section 3.3 and 5.3; Addendum Sections 3.3 and 6.0)
- (4) The continuation of preoperational monitoring studies on intertidal and subtidal biota particularly bull kelp and abalone during operation. (FES-OL Sections 3.5 and 6.0; Addendum Section 5.3 ASLB, p. 98)
- (5) The need for special studies to document levels of intake entrainment on eggs and larvae of fish and abalone and impingement on fish and invertebrates. (FES-OL Sections 5.3 and 6.2; Addendum Sections 5.3 and 5.4; ASLB p. 97)

Aquatic issues are now addressed by the effluent limitations, monitoring requirements, thermal effects study and Section 316(b) demonstration requirements contained in the NPDES permit issued by the California Regional Water Quality Control Board. The NPDES permit includes applicable requirements of the State Water Resources Control Board Ocean Plan* and Thermal Plan.** The NRC will rely on this agency for resolution of the issues involving water quality and aquatic biota.

*"Ocean Plan" is an abbreviation for the Water Quality Control Plan for Ocean Waters of California.

**"Thermal Plan" is an abbreviation for the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California.

2.2 Terrestrial Issues

Specific terrestrial issues raised by the staff or the hearing board were:

- (1) A program to assure erosion control within the transmission line corridor. (FES-OL Addendum Section 4.2.2)

This requirement shall be satisfied as follows:

Conditions and monitoring requirements for the control of erosion within the transmission line right-of-way are specified by the California Public Utilities Decision No. 79726. Nonconformance with the positions of Decision No. 79726 shall be reported to the NRC.

- (2) The need for controlled use of herbicides on transmission rights-of-way if they are used. (FES-OL, Section 5.3.1)
- (3) The need to preserve a shell midden of archeological significance on the Diablo Canyon Plant site and provide access to the site by local Indians. (ASLB Hearing Transcript, pp. 3424-3442 & pp. 3361-3369)

NRC requirements with regard to these terrestrial issues are specified in Subsection 4.2 of this EPP.

3.2 Reporting Related to the NPDES Permits and State Certifications

Violations of the NPDES Permit or the State certification (pursuant to Section 401 of the Clean Water Act) shall be reported to the NRC by submittal of copies of the reports required by the NPDES Permit or certification. The licensee shall also provide the NRC with copies of the results of the following studies at the same time they are submitted to the permitting agency:

- i) Thermal effects study
- ii) Section 316(b) Demonstration Study

Changes and additions to the NPDES Permit or the State certification shall be reported to the NRC within 30 days following the date the change is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

The NRC shall be notified of changes to the effective NPDES Permit proposed by the licensee by providing NRC with a copy of the proposed change at the same time it is submitted to the permitting agency. The licensee shall provide the NRC a copy of the application for renewal of the NPDES permit at the same time the application is submitted to the permitting agency.

3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in plant design or operation and performance of tests or experiments which are required to achieve compliance with other Federal, State, or local environmental regulations are not subject to the requirements of Section 3.1.

4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to station operation shall be recorded and promptly reported to the NRC within 24 hours by telephone, telegraph, or facsimile transmissions followed by a written report within 30 days, as specified in Subsection 5.4.2. The following are examples: excessive bird impactation events; onsite plant or animal disease outbreaks; mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973; fish kills; increase in nuisance organisms or conditions; and unanticipated or emergency discharge of waste water or chemical substances.

No routine monitoring programs are required to implement this condition.

4.2 Environmental Monitoring

4.2.1 Herbicide Applications

The use of herbicides within the corridor rights-of-way associated with the station shall conform to the approved use of selected herbicides as registered by the Environmental Protection Agency and approved by State authorities and applied as directed by said authorities. Reporting requirements shall apply only during the period of herbicide applications for those corridor rights-of-way associated with the station.

4.2.2 Preservation of Archaeological Resources Requirements

The licensee shall avoid disturbances to the SLO-2 site in accordance with the Archaeological Resources Management Plan submitted to the NRC on April 7, 1980.

Should a disturbance of the SLO-2 site inconsistent with the allowable use of the site under the Archaeological Resources Management Plan be necessary the licensee shall report the planned disturbance to the NRC in accordance with Subsection 5.4.2..

The licensee shall develop a plan for controlled access by the Chumash Indian Tribe to the SLO-2 site for religious activities, and transmit the plan to appropriate tribal representatives for negotiation. The plan shall provide for reasonable controlled access to the site, taking into account plant-related security and public health and safety constraints. A good-faith effort shall be demonstrated by the licensee to reach agreement with the Chumash Tribe on the plan within one year from the date of license issuance.

5.0 Administrative Procedures

5.1 Review and Audit

The licensee shall provide for review and audit of compliance with the Environmental Protection Plan. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organization structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

5.2 Records Retention

Records and logs relative to the environmental aspects of plant operation shall be made and retained in a manner convenient for review and inspection. These records and logs shall be made available to NRC on request.

Records of modifications to plant structures, systems and components determined to potentially affect the continued protection of the environment shall be retained for the life of the plant. All other records, data and logs relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies.

5.3 Changes in Environmental Protection Plan

Request for change in the Environmental Protection Plan shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a license amendment incorporating the appropriate revision to the Environmental Protection Plan.

5.4 Plant Reporting Requirements

5.4.1 Routine Reports

An Annual Environmental Operating Report describing implementation of this EPP for the previous year shall be submitted to the NRC prior to May 1 of each year. The initial report shall be submitted prior to May 1 of the year following issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license.

The report shall include summaries and analyses of the results of the environmental protection activities required by Subsection 4.2 of this Environmental Protection Plan for the report period, including a comparison with preoperational studies, operational controls (as appropriate), and previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of trends towards irreversible damage to the environment are observed, the licensee shall provide a detailed analysis of the data and a proposed course of action to alleviate the problem.

The Annual Environmental Operating Report shall also include:

- (a) A list of EPP noncompliances and the corrective actions taken to remedy them.
- (b) A list of all changes in station design or operation, tests, and experiments made in accordance with Subsection 3.1 which involved a potentially significant unreviewed environmental issue.
- (c) A list of nonroutine reports submitted in accordance with Subsection 5.4.2.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing data shall be submitted as soon as possible in a supplementary report.

5.4.2 Nonroutine Reports

A written report shall be submitted to the NRC within 30 days of occurrence of nonroutine event. The report shall (a) describe, analyze, and evaluate the event, including extent and magnitude of the impact and plant operating characteristics, (b) describe the probable cause of the event, (c) indicate the action taken to correct the reported event, (d) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems, and (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection which also require reports to other Federal, State or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this subsection. The NRC shall be provided a copy of such report at the same time it is submitted to the other agency.

40 copies
Spill - Calls - no report

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-313ARKANSAS POWER & LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 65 to Facility Operating License No. DPR-51, issued to Arkansas Power and Light Company (the licensee), which revised the Technical Specifications (TSs) for operation of Arkansas Nuclear One, Unit No. 1 (the facility), located in Pope County, Arkansas. The amendment is effective as of the date of issuance.

The amendment revised the Appendix B TSs to delete certain nonradiological water quality surveillance requirements of Sections 2.1 and 4.1.

The applications for the amendment comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

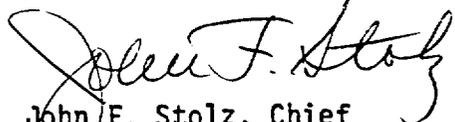
The Commission has determined that the issuance of this amendment is a ministerial action required as a matter of law and that therefore no environmental impact statement or negative declaration and environmental impact appraisal need be prepared in connection with issuance of this amendment.

8205280049

For further details with respect to this action, see (1) the licensee's applications for amendment dated August 17 and September 24, 1981, (2) Amendment No. 65 to License No. DPR-51, and (3) the Commission's letter to the licensee dated May 18, 1982. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Arkansas Tech University, Russellville, Arkansas. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 18th day of May 1982.

FOR THIS NUCLEAR REGULATORY COMMISSION



John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing