

UNITED STATES NUCLEAR REGULATORY COMMISSIONARKANSAS POWER AND LIGHT COMPANYARKANSAS NUCLEAR ONE, UNIT 2DOCKET NO. 50-368NOTICE OF ENVIRONMENTAL ASSESSMENT ANDFINDINGS OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-6 issued to Arkansas Power and Light Company, (the licensee), for operation of the Arkansas Nuclear One, Unit 2 (ANO-2) located at Russellville, Arkansas.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

By letter dated October 28, 1987 (PCAN108706), the licensee requested a change in the plant Technical Specifications (TSs) to decrease the required differential pressure produced by the high pressure safety injection pumps during surveillance testing, from 1402.5 psid to 1360.4 psid.

The Need for Proposed Action:

The proposed TS change is needed because the current specification provides little margin for variation in pump performance. The proposed revision establishes a more realistic differential pressure requirement for the high pressure safety injection (HPSI) pumps which will increase operational flexibility. Recent analyses have shown that a lower differential pressure requirement will not adversely impact the original analysis results, and will result in only a very small reduction of the injection leg flow rates.

Environmental Impact of the Proposed Action:

The proposed reduction in the required differential pressure for the HPSI pumps was considered with respect to all the accident analyses in Chapter 15 of

the Final Safety Analysis Report (FSAR), and also with respect to the loss of coolant accident (LOCA) analysis in Chapter 6 of the FSAR. The proposed reduction does not increase the probability or consequences of a previously evaluated accident. Therefore the proposed changes will not increase to greater than previously determined, the probability of accident and post-accident radiological releases, nor otherwise affect radiological plant effluents. The Commission concludes that there are no significant radiological environmental impacts associated with the proposed TS changes.

With regard to potential non-radiological impacts, the proposed TS change involves features located entirely within the restricted area as defined in 10 CFR Part 20. This would not affect non-radiological plant effluents and would have no other environmental impact. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with the proposed action.

The Notice of Consideration of Issuance of Amendment to Facility Operating License and Opportunity for Prior Hearing regarding the proposed changes to the TS, was published in the Federal Register on December 28, 1987 (52 FR 48887). No request for hearing or petition for leave to intervene was filed following this notice.

Alternative to the Proposed Action:

Since the Commission concluded that there are no significant environmental effects that would result from the proposed action, any alternatives with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested amendment. This would not reduce environmental impacts of plant operation and would result in reduced operational flexibility.

Alternative Use of Resources:

This action does not involve the use of any resources beyond the scope of resources used during normal plant operation.

Agencies and Persons Consulted:

The Commission's staff reviewed the licensee's safety analysis and change to the TS that support the proposed amendment. The staff did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

Based upon the foregoing environmental assessment, the Commission concluded that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed license amendment.

For further details with respect to this action, see the applications for license amendment dated October 28, 1987. Copies are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. 20555, and at the local public document room located at the Tomlinson Library, Arkansas Technical University, Russellville, Arkansas 72801.

Dated at Rockville, Maryland this 6th day of July 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

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