

UNITED STATES NUCLEAR REGULATORY COMMISSION
TOLEDO EDISON COMPANY
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY
DOCKET NO. 50-346
ENVIRONMENTAL ASSESSMENT AND FINDING OF
NO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-3, issued to Toledo Edison Company and The Cleveland Electric Illuminating Company (the licensee), for operation of the Davis-Besse Nuclear Power Station, Unit 1 (DBNPS) located in Ottawa County, Ohio.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action

The proposed amendment would revise Technical Specification (TS) 3/4.4.5, "Steam Generators," and its bases to allow sleeving of steam generator tubes to effect repairs of defective steam generator tubes.

The proposed action is in accordance with the licensee's application for amendment dated August 16, 1991, as supplemented on February 3, 1992.

The Need for the Proposed Action

The DBNPS has two B&W once-through-steam-generators (OTSG). Currently, 20 tubes in Steam Generator 1-1 and 54 tubes in Steam Generator 1-2 have been removed from service due to tube defects. Repairs by means other than plugging are not currently addressed in the DBNPS TS. The licensee proposes to utilize tube sleeving as an alternative to plugging. The advantage of tube

sleeving versus tube plugging is that the tube will remain in service with the structural integrity of the tube maintained and only a small reduction in flow and heat transfer capabilities.

Environmental Impacts of the Proposed Action

The repaired tubes will have a structural integrity similar to their original condition. Accordingly, accident radiological releases will not be greater than previously determined.

Tube repair by sleeving produces individual occupational radiation doses and solid radioactive wastes approximately in the same amount as that incurred by tube plugging. Tube plugging at the DBNPS has resulted in estimated radiation exposures of 40-45 mrem per tube. The estimated radiation exposure from installing OTSG sleeves utilizing the B&W sleeving process is approximately 35 mrem/sleeve, excluding equipment setup and tear down. The effect on the cumulative occupational radiation dose to plant workers is, therefore, projected not to be significantly different from that discussed in the "Final Environmental Statement for the Davis-Besse Nuclear Power Station, Unit 1" dated March 1973 and its supplement dated October 1975.

The normal sleeving process does not directly produce any significant radioactive waste or effluent. No water, hydraulic fluid, or machining chips are generated or expanded during the sleeving process.

Accordingly, the NRC staff concludes that this proposed action would result in no significant radiological environmental impact.

With regard to potential nonradiological impacts, the proposed allowance of SG tube sleeving will not cause significant increase in the nonradiological impacts and will not change any conclusions reached by the staff in the "Final

Environmental Statement for the Davis-Besse Nuclear Power Station, Unit 1" dated March 1973 and its supplement dated October 1975. Therefore, the staff concludes that there are no significant nonradiological environmental impacts associated with the proposed amendment.

Alternative to the Proposed Action

Because the Commission's staff has concluded that there are no significant environmental impacts associated with the proposed action, any alternatives would have either no significantly different environmental impact or greater environmental impact.

The principal alternative would be to deny the requested amendment. This would not reduce environmental impacts as a result of plant operations.

Alternative Use of Resources

This action does not involve the use of any resources not previously considered in the "Final Environmental Statement for the Davis-Besse Nuclear Power Station, Unit 1" dated March 1973 and its supplement dated October 1975.

Agencies and Persons Consulted

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has reviewed the proposed change to the Technical Specifications of Operating License No. NPF-3 relative to the 10 CFR Part 51 requirements.

Based upon the foregoing environmental assessment, the staff concludes that the proposed action will not have a significant effect on the quality of

the human environment. Accordingly, the Commission has determined, pursuant to 10 CFR 51.31, not to prepare an environmental impact statement for the proposed amendment.

For further details with respect to this action, see the application for amendment dated August 16, 1991, as supplemented February 3, 1992, which is available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C and at the University of Toledo Library, Documents Department, 2081 Bancroft Avenue, Toledo, Ohio 43606.

Dated at Rockville, Maryland, this 4th day of June 1992.

FOR THE NUCLEAR REGULATORY COMMISSION

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