

77MPTJ

UNITED STATES NUCLEAR REGULATORY COMMISSION  
COMMONWEALTH EDISON COMPANY  
QUAD CITIES NUCLEAR STATION, UNITS 1 AND 2  
DOCKET NOS. 50-254 AND 50-265  
NOTICE OF ISSUANCE OF 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 Nos. DPR-29 and DPR-30 issued to Commonwealth Edison Company (the licensee), for operation of the Quad Cities Nuclear Power Station, Units 1 and 2, located in Rock Island County, Illinois.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action

The proposed amendment would consist of a change to the Operating Licenses to extend the expiration date of the Operating Licenses to December 14, 2012 for Quad Cities, Units 1 and 2, from February 15, 2007. The proposed license amendment is responsive to the licensee's application dated November 30, 1989. The Commission's staff has prepared an Environmental Assessment of the proposed actions, "Environmental Assessment by the Office of Nuclear Reactor Regulation Relating to the Change in Expiration Date of Facility Operating License Nos. DPR-29 and DPR-30, Commonwealth Edison Company, Quad Cities Nuclear Power Station, Units 1 and 2, Docket Nos. 50-254 and 50-265", dated December 27, 1990.

Summary of Environmental Assessment

The Commission's staff has reviewed the potential environmental impact of the proposed change in the expiration date of the Operating Licenses for the Quad Cities Nuclear Power Station, Units 1 and 2. This evaluation considered

the previous environmental studies, including the Final Environmental Statement (FES), for the Quad Cities Station dated September 1972, and more recent data and NRC policy.

#### Radiological Impacts

The staff concludes that the Exclusion Area, the Low Population Zone and the nearest population center distances will likely be unchanged from those described in the September 1972 FES. Quad Cities is located in a relatively low populated area. Current projections of population within the 5-mile, 10-mile and 50-mile radius of the station are lower than the projection in the FES dated September 1972. 1990 population projections for the 5-mile radius were 5,489 which is less than the estimated 6,227 projection for 1990 in the FES. Current population estimates for the 50-mile radius in the year 2000 are 807,087, less than that projected in the FES. Furthermore, the population for the city of Clinton, Iowa (located approximately 7 miles north of the Quad Cities Station) has actually decreased from 43,419 in 1970 to 32,828 in 1980. Additionally, the census population estimates for Clinton estimates a population of 29,620 in 1988 and 27,930 in 2000.

The additional period of plant operation would not significantly affect the probability or consequences of any reactor accident. Station radiological effluents to restricted areas during normal operation have been well within Commission regulations regarding as low as reasonably achievable (ALARA) limits, and are indicative of future releases. The proposed additional years of reactor operation do not increase the annual public risk from reactor operation.

With regard to normal plant operation, the occupational exposures for the Quad Cities Nuclear Station have closely followed the national average for boiling water reactors. The licensee is striving for dose reductions in accordance with ALARA principles and the staff expects further reductions to be achieved using advanced technologies and equipment that will likely be available.

Accordingly, annual radiological impacts on man, both offsite and onsite, are not more severe than previously estimated in the FES, and our previous cost-benefit conclusions remain valid.

The environmental impacts attributable to transportation of fuel to, and waste from, the Quad Cities Nuclear Station, with respect to normal conditions of transport and possible accidents in transport, would be bounded as set forth in Summary Table S-4 of 10 CFR Part 51.52. The values in Table S-4 would continue to represent the contribution of transportation to the environmental costs associated with plant operation.

#### Non-Radiological Impacts

The Commission has concluded that the proposed extension will not cause a significant increase in the impact to the environment and will not change any conclusions reached by the Commission in the FES.

#### FINDING OF NO SIGNIFICANT IMPACT

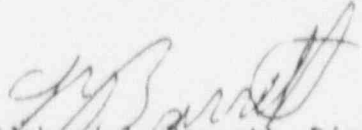
The Commission has reviewed the proposed change to the expiration dates of the Quad Cities Nuclear Station, Units 1 and 2, Facility Operating Licenses relative to the requirements set forth in 10 CFR Part 51. Based upon the environmental assessment, the staff concluded that there are no significant radiological or non-radiological impacts associated with the proposed action.

and that the proposed license amendment will not have a significant effect on the quality of the human environment. Therefore, 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 (1) the application for amendment dated November 30, 1989, (2) the Final Environmental Statement for the Quad Cities Nuclear Power Station, Units 1 and 2, issued September 1972, and (3) the Environmental Assessment dated December 27, 1990. These documents are available for public inspection at the Commission's Public Document Room, the Gelman Building, 2120 L Street, N.W., Washington, D.C., and at the Dixon Public Library, 221 Hennepin Avenue, Dixon, Illinois 61021.

Dated at Rockville, Maryland, this 27th day of December, 1990.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard J. Barrett, Director  
Project Directorate III-2  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation