

MAR 2 1972

ENVIRON

Docket No. 50-269, 50-270 & 50-287

Jacob Kastner, Chief, Radiological Assessment Branch
Division of Radiological and Environmental Protection

RADWASTE SECTION FOR ENVIRONMENTAL STATEMENT FOR OCONEE NUCLEAR POWER
STATION, UNITS 1, 2 and 3

In response to your request we have prepared the Radwaste Section for Oconee Nuclear Power Station, Units 1, 2 and 3 100 percent Power Environmental Statement.

Technical background for our effluent release estimates have been incorporated into the text and a separate summary of assumptions is attached including a list of references used in our evaluation for future reference. The source terms were based on a power level of 2,452 MWt. The release estimates were based on simultaneous operation of Units 1, 2 and 3.

In accordance with your request the estimated releases of radioactive materials in liquid waste were transmitted directly to ORNL on February 29, 1972. Although the anticipated quantities of activity were a fraction of those shown in Table 2 the values have been normalized to 1 curie per year per unit to account for treatment equipment outages and expected operating occurrences. The anticipated gaseous releases shown in Table 1 do not include effluents associated with a leak of primary coolant into the auxiliary buildings. Based on a 5 gallon per day leak the limiting isotope Xe-133 is less than 10% of the value shown in Table I and for this reason it was not included, however the technical background contains a summary of this data for your information.

In reference 7, the applicant acknowledges that consideration was given to additional modifications particularly the gaseous waste treatment system such as filters and a cryogenic system, however the applicant is convinced that such improvements would be of negligible value in view of the already small quantities of activity anticipated to be released from the station.

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In our evaluation we have considered releases based on a 30 day holdup of gaseous waste which we estimate to be the capacity of the presently installed equipment. In view of agency comments we have also calculated and attached estimated gaseous releases using a 60 day holdup period. We recommend that the radiological environmental impact be performed for both holdup times in order that we may verify the applicant's conclusion that additional gaseous waste treatment equipment is not warranted.

Victor Benaroya, Chief
Effluent Treatment Systems Branch
Division of Reactor Licensing

Enclosures:

- 1) Gaseous Effluents - 60 Holdup
- 2) Source Term and Description
- 3) Background Data

cc: w/enclosures

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