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 270, 287
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SEP 14 1972

R. C. DeYoung, Assistant Director for PWR's, L

PLANT NAME: Oconee
 LICENSING STAGE: OL
 DOCKET NUMBER: 50-269, 270, 287
 RESPONSIBLE BRANCH: PWR Branch #4
 REQUESTED COMPLETION DATE: ASAP
 APPLICANTS RESPONSE DATE NECESSARY FOR

NEXT ACTION PLANNED ON PROJECT: Reduce Hydrogen Purge Doses
 to Acceptable Levels

DESCRIPTION OF RESPONSE: NA
 REVIEW STATUS: Site Analysis Branch, ACRS Report on Units 2 & 3
 Hold Over Item

Enclosed are results on the Oconee hydrogen purge dose. This
 information is furnished at the request of I. Peltier, Project
 Manager.

Harold R. Denton, Assistant Director
 for Site Safety
 Directorate of Licensing

Enclosure:
 As stated

cc: w/o encl.
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DATE ▶	9/13/72	9/14/72	9/ /72			

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SEP 14 1972

MEMO

The data submitted for hydrogen purge calculations has been used to calculate the I-131 dose and the Xe-133, KR-85 whole body dose.

Data Input:

Exclusion Radius - 1609 meters
Power level - 2568 MWt
Building Volume - 1.9×10^6 ft³
Type of Purge - continuous
Hold-up Time - 460 hours (19.2 days)
Time of Purge - 30 days
Filter R.F. - 10
X/Q - 5.2 E-6

The results are as follows:

I-131 Dose 150 Rads
Xe 133 + KR 85 Whole Body Dose - .80 Rads

These numbers compare with the guidelines values of:

I-131 Dose - 30 Rads
Xe-133 + KR-85 Whole Body Dose - 2.5 Rads

Please note that the computer program for the I-131, Xe 133, KR-85 dose can be run for any combination of purge time and hold up times. This particular run contains values for 17.3, 19.2 (460 hours), 60 day hold up times. The purging time was assumed to be 30 days in all cases.