

March 1, 1990

Dockets Nos. 50-269, 50-270
and 50-287

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION CONCERNING RESPONSE TO GENERIC
LETTER 88-11 FOR OCONEE NUCLEAR STATION, UNITS 1, 2, AND 3
(TACS 71522/71523/71524)

The NRC staff is reviewing your responses to Generic Letter 88-11. We find that further information, as indicated in the enclosure, is required to complete our review. Your response to the enclosed questions is requested within 30 days of the date of this letter. If you have any questions regarding this matter, I may be contacted at (301) 492-1493.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original Signed By:

Leonard A. Wiens, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

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REQUEST FOR ADDITIONAL INFORMATION
RESPONSE TO GENERIC LETTER 88-11

Ocone I

1. The amendment request dated November 15, 1989 stated that the predicted 15 effective full power years (EFPY) fluence is $0.541E19$ n/cm². The staff extrapolated this fluence to an end of life (EOL) value of $1.16E19$ n/cm². BAW-2050 stated that the highest EOL fluence is $1.02E19$. Verify that the BAW-2050 values reflect the correct predicted fluence at 15 EFPY and EOL.
2. Please provide the unirradiated reference temperature RT_{ndt} for all reactor vessel beltline welds and plates.
3. BAW-2050 has shown that WF-112 is a surveillance weld; however, it is not clear to the staff that WF-112 is a beltline weld. Verify that WF-112 is a beltline weld, i.e. it must have the same heat number for the weld wire and flux as in the beltline weld.

Ocone II

1. The licensee's submittal stated that the fluence at 15 EFPY is $.5E18$ n/cm². The staff extrapolated this fluence at EOL to $1.66E19$ n/cm². BAW-2051 estimated an EOL fluence of $9.57E18$ n/cm². Verify that the BAW-2051 values reflect the correct predicted fluence at 15 EFPY and EOL.
2. Please provide Charpy impact upper shelf energy for the lower nozzle shell belt forging AMX-77.
3. Tables 7-5 and A-1 in BAW-2051 have different values of copper content for the beltline welds. Clarify this apparent discrepancy.

Ocone III

1. The licensee's submittal stated that the 15 EFPY fluence is $7.3E18$ n/cm² at the vessel inside surface. BAW-1697 stated that the highest 15 EFPY value is $4.05E18$ at $1/4T$ (T =beltline thickness) or $6.72E18$ at the inner surface. Verify that the BAW-1697 values reflect the correct fluence at 15 EFPY and EOL.
2. According to BAW-1679, the surveillance weld WF-209-1 has an upper shelf energy of 49 ft-lb at $3.12E18$ n/cm² (figure 5-1, BAW-1679). Section IV.B of Appendix G to 10 CFR 50 requires that the upper shelf energy at end of life be above 50 ft-lb. Please provide a clarification for this issue.
3. Please provide the surveillance capsule reports on capsule OCIII-C and capsule OCIII-D.

Mr. H. B. Tucker
Duke Power Company

Oconee Nuclear Station
Units Nos. 1, 2 and 3

cc:

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