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SCHUYLER,J.O. Pacific Gas & Electric Co.
RECIP.NAME RECIPIENT AFFILIATION
KNIGHTON,G.W. Licensing Branch 3

SUBJECT: Forwards Rev 3 to "Diablo Canyon Units 1 & 2 Radiation Shielding Review," per NUREG-0737,Item II.B.2.Rept includes radiation levels for equipment inside containment,high energy line break analysis & vital area access doses. SAME

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J. O. SCHUYLER
VICE PRESIDENT
NUCLEAR POWER GENERATION

July 12, 1984

PGandE Letter No.: DCL-84-260

Mr. George W. Knighton
Licensing Branch No. 3
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket No. 50-275, OL-DPR-76
Docket No. 50-323
Diablo Canyon Units 1 and 2
Radiation Shielding Review, Rev. 3

Dear Mr. Knighton:

This submittal is provided to meet the requirements of NUREG-0737, Item II.B.2 for Diablo Canyon Unit 2. Regarding Unit 1, the following radiation shielding information was previously provided to the NRC:

1. Diablo Canyon Unit 1, Radiation Shielding Review, Rev. 1, February 20, 1981.

2. Supplement 1 to the above, March 19, 1981.

3. Supplement 2 to the above, June 12, 1981.

Rev. 1 and Supplement 1 were evaluated in Supplements 14 and 15 to the Diablo Canyon Safety Evaluation Report (SSER 14 and 15), and were generally found to be acceptable by the NRC staff. Supplement 2 expanded the Supplement 1 response to close the open items of SSER 14.

The enclosed Radiation Shielding Review, Rev. 3, with its Supplement 1, extends PGandE's review to include Unit 2, and refines and expands the information provided in the previous submittals for Unit 1. The structure, method, contractors, computer codes, source strengths, report organization, and level of detail used in reporting the information in Rev. 3 are the same as were used in the previous submittals. Rev. 3 differs from the previous submittals in the following respects:

1. Radiation levels for equipment inside containment were included as required in NUREG-0737.

2. The analyses included High Energy Line Break as required by NUREG-0737.

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3. Radiation qualification of equipment was not included, since the information was covered as part of an overall environmental qualification report for both Units 1 and 2, submitted to the NRC on September 12, 1981 in response to NUREG-0588. SSER 15 included the results of the NRC review on environmental qualification.

4. Equipment locations were more precisely measured during plant walkdowns, and the Rev. 3 calculations use the precise location of each component, rather than the multi-component area locations used for Rev. 1. Some of the results reported in Rev. 3 may be higher or lower than previously reported, but the conclusions of the 1981 environmental qualification report are not affected.

5. Supplement 1 to Revision 3 provides:

   - vital area access doses for the control room fans and the component cooling water pump valves,
   - equipment qualification doses for ESF ventilation equipment, and
   - beta doses inside the containment.

The information provided in Rev. 3 of the Radiation Shielding review, and its Supplement 1, completes the information required in Item II.B.2 of NUREG-0737 for both Units 1 and 2.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,

J. O. Schuyler

J. O. Schuyler

Enclosure

cc: Service List