

May 21, 1986

Docket Nos. 50-275  
and 50-323

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Mr. J. D. Shiffer, Vice President  
Nuclear Power Generation  
c/o Nuclear Power Generation, Licensing  
Pacific Gas and Electric Company  
77 Beale Street, Room 1451  
San Francisco, California 94106

Dear Mr. Shiffer:

SUBJECT: ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT - SPENT  
FUEL POOL EXPANSION, DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2

By letter dated October 30, 1985, you requested Technical Specification amendments for the proposed spent fuel pool expansion for each unit of the Diablo Canyon Nuclear Power Plant. We have enclosed our Environmental Assessment related to this proposed action. Based on our assessment, we have concluded that there are no significant radiological or non-radiological impacts associated with the proposed spent fuel pool expansions and they will have no significant impact on the quality of the human environment.

We have also enclosed a Notice of Issuance of Environmental Assessment and Finding of No Significant Impact. This notice is being forwarded to the Office of Federal Register for publication.

Sincerely,

/s/HSchierling

Hans E. Schierling, Senior Project Manager  
PWR Project Directorate No. 3  
Division of PWR Licensing-A, NRR

Enclosures:

- 1. Environmental Assessment
- 2. Notice

cc w/enclosures:  
See next page

\*SEE PREVIOUS WHITE FOR CONCURRENCE

*see attached HS 5/20*

OFC	:PAD#3	:PAD#3	:OELD	:D/PAD#3	:
NAME	:CVogan*	:HSchierling	:ps:	:S. Varga	:
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*telcon concurrence by H. McGurren - no legal objections: 2 changes to Notice on page 2 change to EIT page 1* WS

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DATE	:5/7/86	<i>AS</i>	:5/2/86		:5/ /86	:5/ /86	:	:

Mr. J. D. Shiffer  
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Diablo Canyon

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UNITED STATES NUCLEAR REGULATORY COMMISSIONPACIFIC GAS AND ELECTRIC COMPANYDOCKET NOS. 50-275 AND 50-323NOTICE OF ISSUANCE OF ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of amendments to Facility Operating License Nos. DPR-80 and DPR-82, issued to Pacific Gas and Electric Company (the licensee), for operation of the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2 located in San Luis Obispo County, California.

Identification of Proposed Action: The amendments would consist of changes to the operating licenses and Technical Specifications (TSs) and would authorize an increase of the storage capacity of the spent fuel pool (SFP) for each unit from 290 fuel assemblies to 1324 fuel assemblies with enrichments no greater than 4.5 weight percent U-235.

The amendments to the TSs are responsive to the licensee's application dated October 30, 1985. The NRC staff has prepared an Environmental Assessment of the Proposed Action, "Environmental Assessment By the Office of Nuclear Reactor Regulation Relating to the Expansion of Spent Fuel Pools, Facility Operating License Nos. DPR-80 and DPR-82, Pacific Gas and Electric Company, Diablo Canyon Nuclear Power Plant Unit Nos. 1 and 2, Docket Nos. 50-275 and 323," dated May 21, 1986.

Summary of Environmental Assessment: The Final Generic Environmental Impact Statement (FGEIS) on Handling and Storage of Spent Light Water Power Reactor Fuel (NUREG-0575), Volumes 1-3, concluded that the environmental impact of interim storage of spent fuel was negligible and the cost of the various alternatives reflects the advantage of continued generation of nuclear power with the accompanying spent fuel storage. Because of the differences in SFP designs, the FGEIS recommended evaluating SFP expansions on a case-by-case basis.

For the Diablo Canyon Nuclear Power Plant, Unit Nos. 1 and 2, the expansion of the storage capacity of the SFPs will not create any significant additional radiological effects or non-radiological environmental impacts.

The additional whole body dose that might be received by an individual at the site boundary is less than 0.1 millirem per year; the estimated dose to the population within a 50-mile radius is estimated to be less than 0.1 person-rem per year. These doses are small compared to the fluctuations in the annual dose this population receives from exposure to background radiation. The occupational radiation dose for the proposed operation of the expanded spent fuel pools is estimated to be less than 2.5 person-rem per year. This is less than 1% of the average annual occupational dose.

The only non-radiological impact affected by the SFP expansion is the waste heat rejected to the Pacific Ocean. The increase in total plant waste heat is less than 0.1%. There is no significant environmental impact attributable to the waste heat from the plant due to this very small increase.

#### FINDING OF NO SIGNIFICANT IMPACT

The staff has reviewed the proposed spent fuel pool expansion to the facilities relative to the requirements set forth in 10 CFR Part 51. Based on

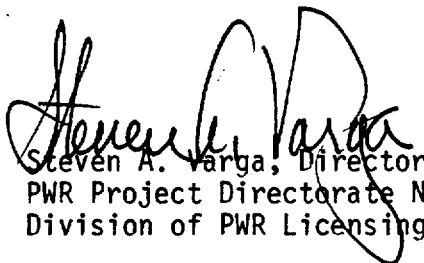


this assessment, the staff concludes that there are no significant radiological or non-radiological impacts associated with the proposed action and that the issuance of the proposed amendments to the licenses will have no significant impact on the quality of the human environment. Therefore, pursuant to 10 CFR 51.31, an environmental impact statement need not be prepared for this action.

For further details with respect to this action, see (1) the application for amendments to the Technical Specifications dated October 30, 1986 and additional information provided by the licensee in letters dated September 19, December 20 and December 24, 1985 and January 28 (2 letters), March 11, and April 24 (2 letters), 1986, (2) the FGEIS on Handling and Storage of Spent Light Water Power Reactor Fuel (NUREG-0575), (3) the Final Environmental Statement for the Diablo Canyon Nuclear Power Plant, Units 1 and 2 issued May 1973, and (4) the Environmental Assessment dated May 21, 1986 . These documents are available for public inspection at the Commission's Public Document Room 1717 H Street, N.W., Washington, D.C. 20555 and at the California Polytechnic State University Library, Documents and Maps Department, San Luis Obispo, California 93407.

Dated at Bethesda, Maryland, this 21th day of May 1986.

FOR THE NUCLEAR REGULATORY COMMISSION



Steven A. Varga, Director  
PWR Project Directorate No. 3  
Division of PWR Licensing-A, NRR