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Docket Nos.: 50-275/323

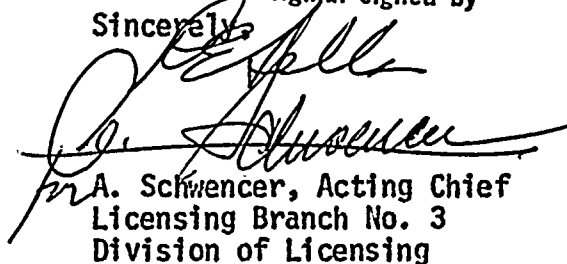
Mr. Malcolm H. Furbush
 Vice President - General Counsel
 Pacific Gas and Electric Company
 77 Beale Street
 San Francisco, California 94106

Dear Mr. Furbush:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - DIABLO CANYON, UNITS 1 AND 2

As part of our continuing review of the Diablo Canyon, Unit 1 and 2 applica-
 tion, we find that we require additional information, delineated in the
 Enclosure, in order to continue our review and evaluation for a full power
 license.

Original signed by
 Sincerely,



A. Schwencer, Acting Chief
 Licensing Branch No. 3
 Division of Licensing

Enclosure:
 As stated

cc: See next page

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August 27, 1980

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August 27, 1980

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REQUEST FOR INFORMATION
DIABLO CANYON, UNITS 1 AND 2

1. Provide the following information for each LP turbine:
 - A. Turbine type
 - B. For each disc:
 1. Type of material including material specifications.
 2. Tensile properties data.
 3. Toughness properties data including Fracture Appearance Transition Temperature and upper energy and temperature.
 4. Keyway temperatures.
 5. Critical crack size at operating and design overspeed.
 6. Crack growth rate.
 7. Calculated bore and keyway stress at operating and design overspeed.
 8. Calculated K_{1C} data.
 9. Minimum yield strength specified for each disc.
2. Provide details of the results of any completed preservice inspection of LP turbine rotors. For each indication detected, provide details of the location of the crack, its orientation and size.
3. Indicate discs that will have sufficient moisture in the hub to cause a propensity for stress corrosion cracking.
4. Indicate whether an analysis and evaluation regarding turbine missiles have been performed for your plant and provided to the staff. If such an analysis and evaluation has been performed and reported, please provide appropriate references to the available documentation. In the event that such studies have not been made, consideration should be given to scheduling such an action.



5. A description of and completion schedule for an upgraded meteorological program in substantial compliance with NUREG-0654, Appendix 2 "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants", is required by NUREG-0694, "TMI-Related Requirements for New Operating Licenses", before issuance of a full power license.

The essential elements of the NUREG-0654, Appendix 2 criteria are:

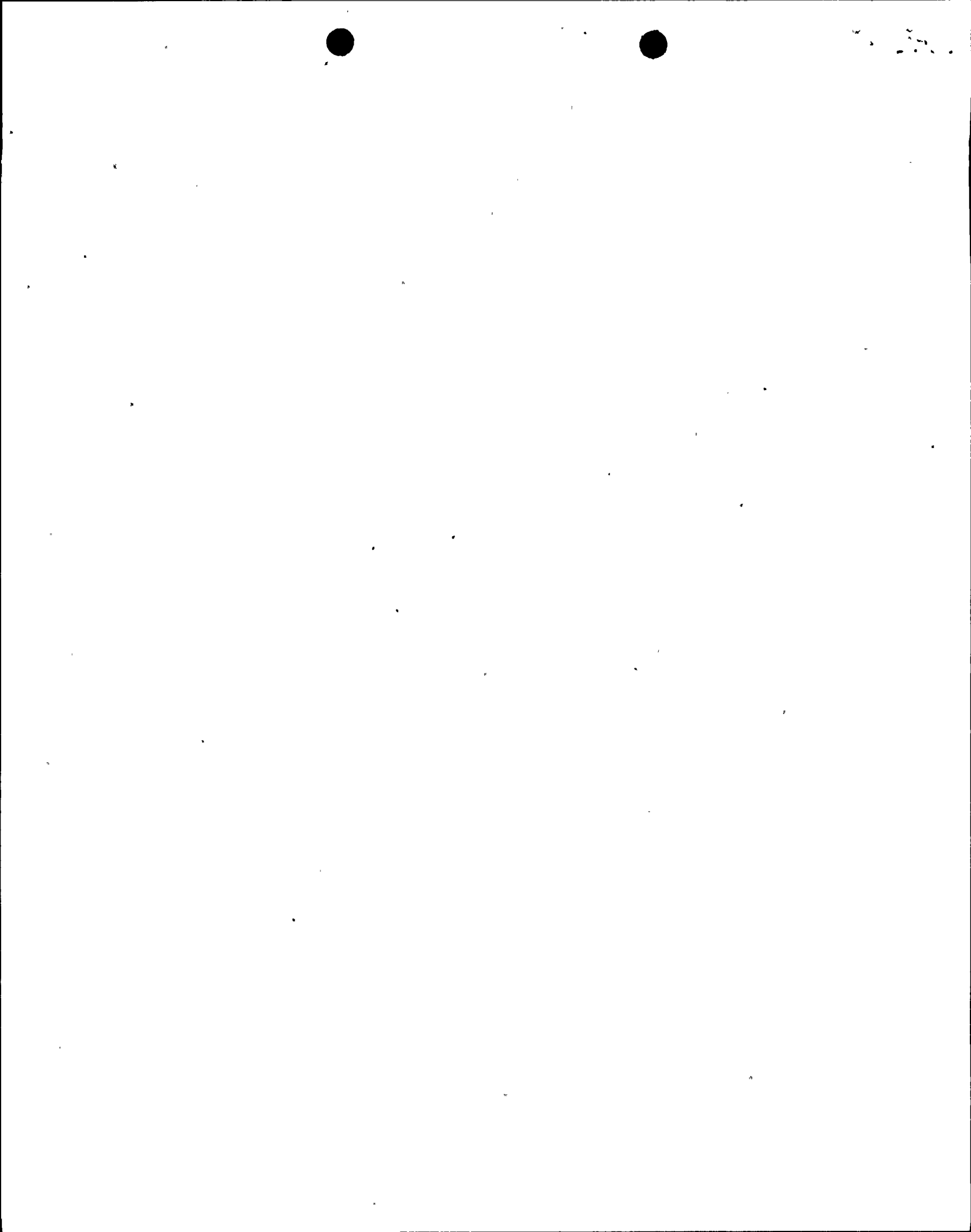
1. A primary meteorological measurements program with redundant power sources.
2. A backup meteorological measurements program with redundant power sources.
3. A system for making real-time predictions of the atmospheric effluent transport and diffusion, including Class A and Class B models as described in Appendix 2.
4. A capability for remote interrogation on demand of the atmospheric measurements and prediction systems by the licensee, emergency response organizations, and the NRC staff with primary and backup communications systems.

The details of the meteorological program will be reviewed on a schedule to be established. This review schedule will be consistent with the Emergency Response Plan implementation schedule.

In accordance with emergency planning schedules as delineated in the amendments to the regulations approved by the Commission, July 23, 1980, 10 CFR Article 50.54(s) establishes an implementation date of April 1, 1981, for emergency response plans to be upgraded. Emergency support facilities including meteorological systems are expected to be fully operational by April 1, 1982, based upon the implementation schedule outlined in the August 1, 1980 letter from Darrell Eisenhut, Director, Division of Licensing to all applicants for construction permits, licensees of plants under construction and all operating nuclear power plants.

The first item in the list is satisfied by the existing description in the FSAR. Please provide a commitment for the remainder of Diablo Canyon's upgraded meteorological program along with a completion schedule to meet these criteria.

6. The containment pressure boundary for Diablo Canyon, Units 1 and 2 is constructed using materials meeting the requirements of ASME Section III or various B 31.X piping codes. Please provide the following information in order to confirm compliance with these codes.



1. Identification of the fabrication codes (edition and addenda) and the specific paragraphs in these codes that specify the fracture toughness requirements and acceptance criteria (for weldments and base metals). Codes and code paragraphs should be identified for all materials which constitute part of the containment pressure boundary (e.g., piping penetrations, personnel airlocks, "Equipment Hatch").
2. The materials test data that certify that the fracture toughness acceptance standards have been met for each of the identified materials in the containment pressure boundary.

