Docket 50-323

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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 application, 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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cc: Philip A. Crane, Jr., Esq.
Pacific Gas & Electric Company
77 Beale Street
San Francisco, California 94106

Janice E. Kerr, Esq.
California Public Utilities Commission
350 McAllister Street
San Francisco, California 94102

Mr. Frederick Eissler, President
Scenic Shoreline Preservation Conference, Inc.
4623 More Mesa Drive
Santa Barbara, California 93105

Ms. Elizabeth Apfelberg
c/o Nancy Culver
192 Luneta
San Luis Obispo, California 93401

Ms. Sandra A. Silver
1760 Alisal Street
San Luis Obispo, California 93401

Mr. Gordon A. Silver
1760 Alisal Street
San Luis Obispo, California 93401

Yale I. Jones, Esq.
100 Van Ness Avenue - 19th Floor
San Francisco, California 94102

Mr. Richard Hubbard
MHB Technical Associates
Suite K
1723 Hamilton Avenue
San Jose, California 95125

Mr. John Marrs, Managing Editor
San Luis Obispo County Telegram-Tribune
1321 Johnson Avenue
P. O. Box 112
San Luis Obispo, California 93406

cc: Tolbert Young
P. O. Box 396
Arroyo Grande, California 93420

Elizabeth S. Bowers, Esq., Chairman
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Glenn O. Bright
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Richard S. Salzman, Esq., Chairman
Atomic Safety & Licensing Appeal Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. W. Reed Johnson
Atomic Safety & Licensing Appeal Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Alan S. Rosenthal, Esq.
Atomic Safety & Licensing Appeal Board
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Ms. Raye Fleming
1920 Mattie Road
Shell Beach, California 93440

Brent Rushforth, Esq.
Center for Law in the Public Interest
10203 Santa Monica Boulevard
Los Angeles, California 90067

Arthur B. Gehr, Esq.
Snell & Wilmer
3100 Valley Center
Phoenix, Arizona 85073

Mr. James O. Schuyler
Nuclear Projects Engineer
Pacific Gas & Electric Company
77 Beale Street
San Francisco, California 94106

cc: Bruce Norton, Esq.
Suite 202
3216 North 3rd Street
Phoenix, Arizona 85012

Mr. W. C. Gangloff
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Michael R. Klein, Esq.
Wilmer, Cutler & Pickering
1666 K. Street, N. W.
Washington, D. C. 20006

David F. Fleischaker, Esq.
Suite 709
1735 Eye Street, N. W.
Washington, D. C. 20006

Dr. William E. Martin
Senior Ecologist
Battelle Memorial Institute
Columbus, Ohio 43201

W. Andrew Baldwin, Esq.
124 Spear Street
San Francisco, California 94105

Resident Inspector/Diablo Canyon NPS
c/o U. S. Nuclear Regulatory Commission
P. O. Box 219
Avila Beach, California 93424

ENCLOSURE

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_{Ic} 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.