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ACCESSION Nbr: 8110050289 DJC DATE: 81/10/01 NOTARIZED: NO  
 FACILITY: 50-2/5 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Gas  
 50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Gas  
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 RECIP. NAME: MIRAGLIA, F.J. RECIPIENT AFFILIATION: Licensing Branch 3

CKET #  
 05000275  
05000323

SUBJECT: Forwards info re util compliance w/ App R to 10CFR50, Sections III.G, III.J, III.L & III.O. Fire protection features comply w/ requirements. Fire protection program designed & reviewed per App A to Branch Technical Position APCS8 9.5-1.

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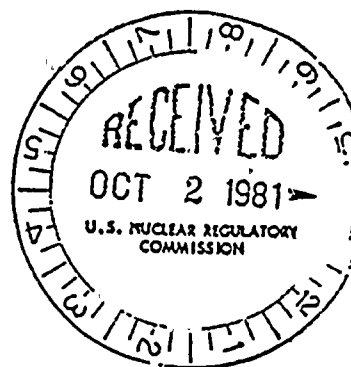
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October 1, 1981

Mr. Frank J. Miraglia, Jr., Chief  
Licensing Branch No. 3  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Re: Docket No. 50-275  
Docket No. 50-323  
Diablo Canyon Units 1 and 2  
Facility License No. DPR-76



Dear Mr. Miraglia:

Subject: Compliance with Appendix R of 10 CFR 50

The attached discussion provides information relating to PGandE's compliance with Sections III.G, III.J, III.L and III.O of Appendix R to 10 CFR 50.

PGandE has reviewed the requirements of the noted sections of Appendix R to 10 CFR 50 and finds that the fire protection features at Diablo Canyon are in compliance with these sections. The DCPD fire protection program was designed and reviewed to the criteria of Appendix A to Branch Technical Position APCS 9.5-1.

Very truly yours,

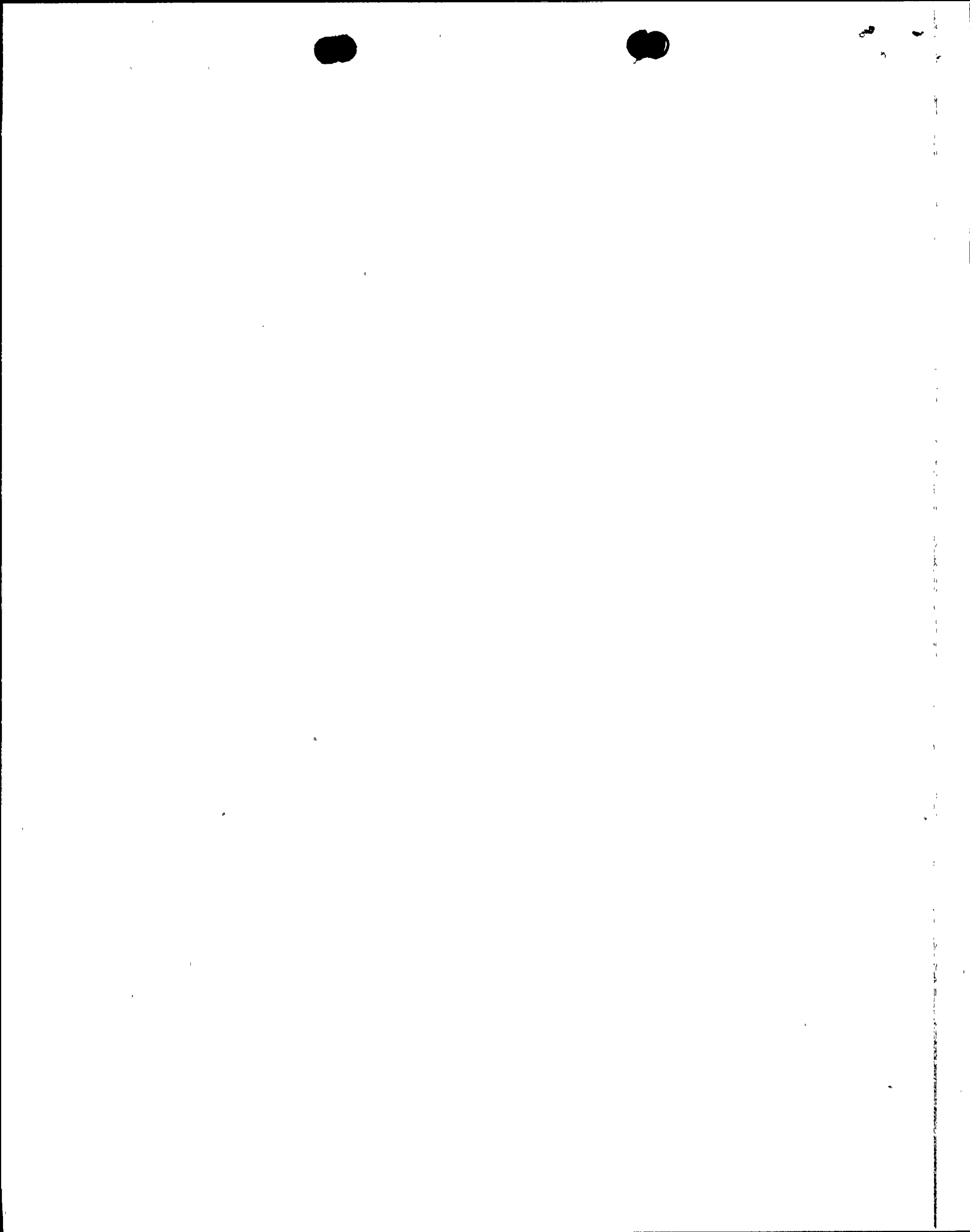
*Philip A. Crane*

Attachment (40)

cc: Service List (w/attachment)

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Compliance with Sections III.G, III.J, III.L, and III.O

of

Appendix R of 10 CFR 50

Section III.G (Fire Protection of Safe Shutdown Capability)

During the review of PGandE's fire protection program, the NRC Staff requested additional information regarding the capability of the DCPP to achieve safe shutdown with a credible fire in any fire zone.

PGandE reviewed the plant safe shutdown capability when considering a fire in the plant with loss of offsite power and provided the following information to the NRC Staff:

1. A list of systems required for safe shutdown;
2. The quantity of redundant equipment needed to provide safe shutdown on a system by system basis;
3. An evaluation of safe shutdown capability assuming a loss of one electrical division on a system by system basis;
4. A tabulation of equipment and cabling required for safe shutdown and the cable routing within the plant;
5. A tabulation of the evaluation of consequences of the effects of a fire in each fire zone on the equipment and cabling required for safe shutdown;
6. A summary of modifications required to protect equipment and cabling in certain fire zones so as not to adversely affect safe shutdown capability.



As a result of the review of safe shutdown capability, modifications were made to upgrade fire barriers and fire detection and suppression equipment, where required, to assure safe shutdown capability in conjunction with a fire in any fire zone. The fire protection systems limit fire damage so that one train of those systems necessary to achieve and maintain safe shutdown conditions from either the control room or the emergency control station is free from fire damage. When evaluating the effects of a fire on the safe shutdown capability of DCP, PGandE defined the safe shutdown to mean cold shutdown.

Therefore, the fire protection systems, at DCP meet the requirements of Section III.G of Appendix R to 10 CFR 50.

#### Section III.J (Emergency Lighting)

The emergency lighting units at DCP are provided with battery power having at least an eight hour supply. These units are located throughout the plant where operation of safe shutdown equipment may be required.

The emergency lighting units, therefore, meet the requirements of Section III.J of Appendix R to 10 CFR 50.

#### Section III.L (Alternative and Dedicated Shutdown Capability)

The design of the DCP fire protection system, in conjunction with the redundant safe shutdown control station ensure the capability to achieve and maintain a cold shutdown condition.

The NRC indicated in Supplement 9 to the DCP SER (NUREG-0675) that the alternate shutdown capability is independent of the cable spreading and control room and would not be affected by a fire in either area. The NRC Staff further found that in the event of a fire in the control or the cable spreading room the plant can be brought to a cold shutdown using the hot shutdown panel.

The fire protection design in conjunction with the design, location, and use of the hot shutdown panel provide the basis for an alternative shutdown capability at the DCP and therefore meet the requirements of Section III.L of Appendix R of 10 CFR 50.

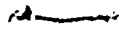




Section III.0 (Oil Collection System for Reactor Coolant Pump)

PGandE's fire protection program includes an Oil Collection System for Reactor Coolant Pump leakage. The presently installed system has the capability of collecting the oil leakage from the oil lift pumps, the oil reservoir, and the lube oil cooler. In addition, work is in progress to provide oil collection capability in the coupling area between the Reactor Coolant Pump and the motor. The work in this area will be completed consistent with the schedules for implementation specified in 10 CFR 50.48(c). The oil collection container associated with the collection system for Unit 1 has a capacity greater than the oil inventory of single Reactor Coolant Pump. The oil collection container vent is equipped with a flame arrester. The installed oil collection system for Reactor Coolant Pump leakage has been designed to provide reasonable assurance that this system will withstand the Safe Shutdown Earthquake. Unit 2 will have a similar system installed prior to operation.

The Oil Collection System for the Reactor Coolant Pumps, therefore, meets the requirements of Section III.0 of Appendix R of 10 CFR 50.



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