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 AUTH. NAME AUTHOR AFFILIATION  
 SHIFFER, J. D. Pacific Gas & Electric Co.  
 RECIPIENT NAME RECIPIENT AFFILIATION  
 KNIGHTON, G. W. Licensing Branch 3

SUBJECT: Provides info re aspects of source range channel failure in Modes 3, 4 & 5 w/rods incapable of being withdrawn. Util intends to have two operable source range channels available, except during periods of maint, testing, or calibr.

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# PACIFIC GAS AND ELECTRIC COMPANY

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JAMES D. SHIFFER  
VICE PRESIDENT  
NUCLEAR POWER GENERATION

April 22, 1985

PGandE Letter No.: DCL-85-161

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

Re: Docket No. 50-323  
Diablo Canyon Unit 2  
Unit 2 Technical Specifications - Additional Information

Dear Mr. Knighton:

As discussed with the NRC Staff, the following is information regarding aspects of source range channel failure in Modes 3, 4, and 5 with the rods incapable of being withdrawn.

PGandE intends to have two operable source range channels, except during periods of maintenance, testing, or calibration. During these periods, failure of the remaining channel detector, wiring, drawer, or loss of voltage would normally result in a downscale failure since the source range operates in the pulsed mode and spurious signals are shielded by the use of triaxial cabling. This downscale failure mode would be annunciated in the control room if caused by loss of detector voltage. The only postulated failure that would result in an upscale failure is a hot short in the source range drawer which has a low probability of occurrence. This upscale failure would also be annunciated in the control room. There is no known failure that would result in a mid-range count rate. Once a failure is identified, it is PGandE's intention to:

1. Follow the ACTION statement regarding more frequent monitoring of shutdown margin primarily by reactor coolant boron concentration analyses, and
2. Stop and tag out both primary water makeup pumps, the only credible source of RCS dilution water in Modes 3, 4, and 5.

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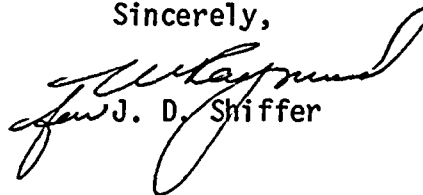
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PGandE believes this information addresses the adequacy of a single operable channel as indicated for item 6.c in Table 3.3-1 of the Unit 2 Technical Specifications proposed by PGandE.

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

Sincerely,



J. D. Shiffer

cc: R. T. Dodds  
J. B. Martin  
H. E. Schierling  
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