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SUBJECT: Submits addl info requested in 830111 ltr re duration between occurrence of double ended guillotine break in high energy line feeding steam driven auxiliary feedwater pump & accuation of feedwater sys.

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MANAGER OF NUCLEAR ENGINEERING,
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February 7, 1983

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

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station
Units 2 and 3

By letter dated January 11, 1983, SCE committed to provide additional information requested by the NRC staff on the duration between the occurrence of a double ended guillotine break in the high energy line feeding the steam driven auxiliary feedwater (AFW) pump and actuation of the AFW system. The purpose of this letter is to fulfill that commitment.

For the purpose of the requested analysis, the motor-driven AFW pumps were assumed to be not running initially and operator action to isolate the steam line break was assumed to occur 30 minutes after the break.

A double ended guillotine break in the high energy line feeding the steam driven AFW pump at full power will increase the steam flow demand by approximately 7%. Depending on the specific initial conditions of the NSSS, this increased demand could result in a CPC initiated reactor trip on low DNBR or a high power level trip from the ex-core nuclear instrumentation within minutes of the event. A reactor trip can result in steam generator level shrink sufficient to generate an EFAS and a start demand signal for the AFW system within a few seconds after the trip.

If you have any questions or comments, please contact me.

Very truly yours,

KP Baskin

cc: Mr. R. H. Engelken
Regional Administrator, Region V
Office of Inspection and Enforcement

Mr. H. Rood, Project Manager
Licensing Branch No. 3

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