



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

August 7, 1986

Docket Nos.: 50-361
and 50-362

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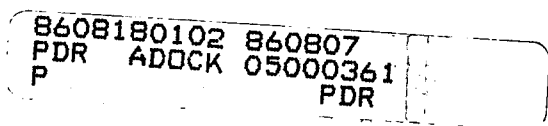
Gentlemen:

Subject: SAFETY EVALUATION REGARDING CONTROL SYSTEM FAILURES

The purpose of this letter is to transmit the enclosed San Onofre Nuclear Generating Station (SONGS) Units 2 and 3 safety evaluation (Enclosure 1) regarding control system failures. The safety evaluation pertains to control system failures caused by: (1) high energy line breaks (HELB's - NRC Question 222.43 related to IE Information Notice 79-22), and (2) failure of power sources, sensors, and sensor impulse lines serving two or more control systems (NRC Question 222.44). These questions are associated with License Condition 2.C(12) for Unit 2 and 2.C(10) for Unit 3. These items are identified as outstanding in Sections 7.7.1 and 7.7.2 of SONGS 2 and 3 SSER No. 4 (NUREG-0712).

We found from our review of Question 222.43 that you used less conservative assumptions in your HELB analyses than those used in the FSAR analyses. Also, the steam line break (SLB) event was not analyzed for a simultaneous failure of the steam bypass control system and reactor regulating system since credit is being taken for a single, nonsafety (control system) interlock. This resulted in the staff questioning your conclusion that the HELB initiated events are bounded by the FSAR analyses. The enclosed evaluation describes the issue in more detail including the related staff positions and the actions required to resolve the subject license conditions.

Regarding the issue related to Question 222.44, you have provided sufficient information to verify, with reasonable assurance, that the consequences of control system failures caused by power sources, sensors and sensor impulse



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lines are bounded by the existing FSAR analyses. We, therefore, consider this portion of license conditions 2.C(12) and 2.C(10) to be resolved.

If you have any questions regarding this SER, please contact me.

Sincerely,

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Harry Rood, Senior Project Manager
PWR Project Directorate No. 7
Division of PWR Licensing-B

Enclosure: SER

cc: See next page

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San Onofre Nuclear Generating Station
Units 2 and 3

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