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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Gentlemen:

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

Reference: April 24, 1990 letter from F. R. Nandy (SCE) to Document Control Desk (NRC), Subject: Docket Nos. 50-361 and 50-362, Electrical Safety System Inspection, San Onofre Nuclear Generating Station, Units 2 and 3

This letter documents the status of the safety-related setpoint program at San Onofre Units 2 and 3. Following the October 30 through November 30, 1989, Electrical Safety Systems Functional Inspection (SSFI) conducted by the NRC, Southern California Edison (SCE) initiated a comprehensive program to reevaluate all safety-related setpoints.

The Units 2 and 3 setpoint program originally identified 101 calculations associated with safety-related setpoints. To date, 94 of the calculations have been completed. The remaining calculations, which are associated with the Radiation Monitoring Systems (RMS), have been deferred as part of a program to upgrade the RMS hardware at San Onofre Units 2 and 3. Setpoint changes resulting from these calculations will be available for use by the completion of the Cycle 9 refueling outage for each unit.

Results of the Safety Related Setpoint Program Evaluation

Most of the safety-related setpoint calculations found the setpoints to be conservative, and no corrective action was required. Nonconformance reports were generated in cases where the existing plant setpoints were not conservative with respect to the calculated setpoints.

Of the setpoints which were determined to be non-conservative, most corrective actions involved only revision of the existing setpoints and procedures. Two of the setpoint calculations identified larger than expected instrument uncertainties. These calculations were associated with the Subcooling Margin Monitor (SMM) alarm, and the Open Permissive Interlock (OPI) for the Shutdown Cooling (SDC) system suction valves. Both of the systems were evaluated and determined to be operable. SCE is reviewing the benefit of reducing the uncertainty by replacing certain SMM and SDC suction valve OPI transmitters with more accurate instruments. If SCE concludes this upgrade has enough

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benefit to plant operation we would plan to install the upgraded equipment by the end of the Cycle 9 refueling outage for each unit.

Radiation Monitoring Systems

The safety-related setpoint calculations being deferred are associated with the Radiation Monitoring Systems (RMS) for the Containment Purge Isolation System, Control Room Isolation System, and Fuel Handling Isolation System. These calculations will address the monitor loop, sample loop, and, if appropriate, a heat tracing loop. These RMS instruments are currently expected to be replaced by the completion of the Cycle 9 refueling outage for each unit. Specific setpoint calculations consistent with the setpoint program will be performed for the new RMS instruments.

The RMS associated setpoint calculations involve the isolation of ventilation systems in response to detection of a high radiation level. The RMS has been specifically analyzed in recent calculations (although not necessarily setpoint calculations) which demonstrated that considerable margins exist either in the dose assessment analysis or in the monitor setpoint. These margins are concluded to be large enough to compensate for any setpoint and loop accuracy uncertainties that may exist. Therefore, deferral of these calculations will not have a significant adverse effect on system safety function.

If you would like any additional information on the safety-related setpoint program, please let me know.

Sincerely,

Harold C. Marsh

cc: K. E. Perkins, Jr., Acting Regional Administrator, NRC Region V
J. A. Sloan, NRC Senior Resident Inspector, San Onofre Units 2 & 3
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3