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

Gentlemen:

Subject: Docket Nos. 50-206, 50-361 and 50-362
Generic Letter 89-15: Emergency Response Data System
San Onofre Nuclear Generating Station
Units 1, 2 and 3

References: 1) Letter from F. R. Nandy (SCE) to NRC dated July 12, 1989; Subject: Generic Letter 89-06, Task Action Plan Item I.D.2 - Safety Parameter Display System - 10 CFR §50.54(f)

2) Letter from M. O. Medford (SCE) to NRC dated March 17, 1987; Subject: SPDS Design Criteria

In response to Generic Letter 89-15, Emergency Response Data System, Southern California Edison (SCE) agrees with the NRC that electronic data transmission will improve the timeliness, accuracy and reliability of data transfer to the NRC during a postulated emergency. It will also reduce the burden on the plant operating staff to manually provide this data to the NRC and thereby release them for more useful functions. Accordingly, SCE hereby volunteers participation in the NRC's Emergency Response Data System (ERDS) for San Onofre Units 1, 2 and 3.

For San Onofre Units 2 and 3, an appropriate data output port for electronic transmittal of plant data to the NRC to implement ERDS is being scheduled for installation in late 1991. The data requested by NRC Generic Letter 89-15 is currently available from several plant data systems such as the Critical Functions Monitoring System (CFMS), Health Physics Data System and Meteorological Computer. Development of an approach to provide all the requested information through one data output port is scheduled to be complete in late 1990. Therefore, SCE will inform the NRC of the proposed design by January 1, 1991 so that further SCE and NRC efforts can be tailored to ensure compatibility of SCE/NRC systems.

For San Onofre Unit 1, the majority of the ERDS requested parameters have previously been scheduled to be included in the Safety Parameter Display System (SPDS) design. However, the NRC requested some ERDS parameters which have not been previously scheduled to be included in the SPDS design. The

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enclosure to this letter provides a tabulation of the San Onofre Unit 1 ERDS parameters which: 1) will be provided, 2) will not be provided and 3) are under evaluation for inclusion. As indicated in the enclosure, if inclusion of any ERDS parameters proves impractical or impossible, they can be communicated during an emergency utilizing the existing Emergency Notification System. The results of the remaining evaluations for the six (6) parameters identified in the enclosure which are not included in SPDS but are monitored in the Control Room will be provided to the NRC by January 1, 1991. As stated above for Units 2 and 3, SCE will continue to work with the NRC to ensure compatibility of the Unit 1 SPDS with the NRC's ERDS systems. The Unit 1 ERDS implementation is scheduled for the Cycle 12 refueling outage (projected for September 1992 to February 1993) concurrent with and dependent on the installation of the SPDS. The referenced letters provided the conceptual SPDS design criteria and project status.

As requested in the generic letter, the SCE ERDS Technical contact is Dr. R. Waldo who can be reached at (714) 368-8725.

If you have any questions or comments, please let me know.

Very truly yours,

Harold B. Ray

Enclosure

cc: J. B. Martin, Regional Administrator, NRC Region V
C. Caldwell, NRC Senior Resident Inspector, San Onofre Units 1, 2 and 3

ENCLOSURE

EMERGENCY RESPONSE DATA SYSTEM
PROPOSED IMPLEMENTATION
SAN ONOFRE UNIT 1

ERDS Requested Parameter Per G.L. 89-15	SCE Response
Primary Coolant System:	
• Pressure	• Will be provided in ERDS.
• Temperature - Hot Leg	• Will be provided in ERDS.
• Temperature - Cold Leg	• Will be provided in ERDS.
• Temperature - Core Exit Thermocouples	• Will be provided in ERDS.
• Subcooling Margin	• Will be provided in ERDS.
• Pressurizer Level	• Will be provided in ERDS.
• RCS Charging/Makeup Flow	• Will be provided in ERDS.
• Reactor Vessel Level	• Will not be provided initially in ERDS. The capability to monitor this parameter does not currently exist; however, it is scheduled to be installed during the Cycle 12 refueling outage. Addition of this parameter to the ERDS during the Cycle 13 refueling outage is being evaluated.
• Reactor Coolant Flow	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room. SCE will evaluate the feasibility of including this parameter in the ERDS.
• Reactor Power	• Will be provided in ERDS by monitoring neutron flux.
Secondary Coolant System:	
• Steam Generator Levels	• Will be provided in ERDS.
• Steam Generator Pressures	• Not currently monitored. SCE will provide main steam pressure in ERDS as an alternative parameter.
• Main Feedwater Flows	• Will be provided in ERDS.
• Auxiliary/Emergency Feedwater Flows	• Will be provided in ERDS.

ERDS Requested Parameter Per G.L. 89-15	SCE Response
Safety Injection:	
• High Pressure Safety Injection Flows	• Not applicable to SONGS 1
• Low Pressure Safety Injection Flows	• Not applicable to SONGS 1.
• Safety Injection Flows (Westinghouse)	• Will be provided in ERDS.
• Borated Water Storage Tank Level	• Will be provided in ERDS. (Refueling Water Storage Tank)
Containment:	
• Containment Pressure	• Will be provided in ERDS.
• Containment Temperatures	• Will not be included in ERDS. This parameter is not currently monitored in the Control Room. Additionally, it is not an important parameter in the Unit 1 accident analyses.
• Hydrogen Concentration	• Will be provided in ERDS.
• Containment Sump Levels	• Will be provided in ERDS.
Radiation Monitoring System:	
• Reactor Coolant Radioactivity	• Will not be provided in ERDS. This parameter is not monitored in the Control Room. Coolant radioactivity is measured by grab sampling through the PASS (Post Accident Sampling System). This data can be transmitted verbally using the Emergency Notification System.
• Containment Radiation Level	• Will be provided in ERDS.
• Condenser Air Removal Radiation Level	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room. SCE will evaluate the feasibility of including this parameter in the ERDS.

ERDS Requested Parameter Per G.L. 89-15	SCE Response
• Effluent Radiation Monitors	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room. SCE will evaluate the feasibility of including this parameter in the ERDS.
• Process Radiation Monitor Levels	• Will not be provided in ERDS. This parameter is monitored indirectly by sampling. SCE can transmit this data verbally using the Emergency Notification System.
Meteorological:	
• Wind Speed	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room and will be available via the Units 2 and 3 ERDS. SCE will evaluate including this parameter in the Unit 1 ERDS also.
• Wind Direction	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room and will be available via the Units 2 and 3 ERDS. SCE will evaluate including this parameter in the Unit 1 ERDS also.
• Atmospheric Stability	• Subject to further evaluation. This is not an SPDS parameter; however, it is monitored in the Control Room and will be available via the Units 2 and 3 ERDS. SCE will evaluate including this parameter in the Unit 1 ERDS also.

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