

March 2, 1998

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

Gentlemen:

Subject: **Docket Nos. 50-361 and 50-362**
Additional Information for Amendment Application Nos. 171 and 157
Radiation Monitor System Digital Upgrade
San Onofre Nuclear Generating Station, Units 2 & 3
(TAC Nos. MA0234 and MA0235)

- References:
- 1) Letter dated October 17, 1997, from D. E. Nunn (SCE) to Document Control Desk (NRC), Subject: Docket Nos. 50-361 and 50-362, Proposed Change Number NPF-10/15-459, Radiation Monitoring System Digital Upgrade, San Onofre Nuclear Generating Station Units 2 and 3.
 - 2) Letter dated January 30, 1998, from M. B. Fields (NRC) to H. B. Ray (SCE), Subject: Request for Additional Information - Proposed Technical Specification Amendment to Install Digital Radiation Monitors for San Onofre Nuclear Generating Station, Units 2 and 3. (TAC Nos. MA0234 and MA0235)

This letter provides additional information in support of NRC review of Amendment Applications 171 and 157 for the San Onofre Nuclear Generating Station, Units 2 and 3 (Reference 1). This additional information was requested by the NRC on January 30, 1998 (Reference 2).

Reference 1 requested NRC approval to install digital radiation monitors at the San Onofre Nuclear Generating Station, Units 2 and 3, for both trains supplying the containment purge isolation signal. Provided in this letter was Calculation J-SPA-289, "ESFAS Radiation Monitor Software Common Mode Failure Evaluation." In this calculation, a number of other documents were referenced. To complete the review of the proposed license amendment, the NRC has requested (Reference 2) those documents referenced in Calculation J-SPA-289. These documents are:

San Onofre Nuclear Generating Station
P.O. Box 128
San Clemente, CA 92674-0128
714.368.7470

9803050133 980302
PDR ADOCK 05000361
P PDR

1001/1
Limited Dist. to NRC PDC File Control (PM) M. Fields 22

located in Central Files

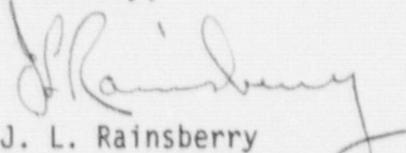
<u>#</u>	<u>Ref.</u>	<u>Document Number</u>	<u>Title</u>
1	6.4.1	SCE VPL No. S0123-606-1-8 Rev. 1	RMS Software Quality Assurance Plan
2	6.4.2	SCE VPL No. S0123-606-1-9 Rev. 0	RMS Protocol Technical Specifications
3	6.4.3	SCE VPL No. S0123-606-1-10 Rev. 1	System Software Requirements Specifications
4	6.4.4	SCE VPL No. S0123-606-1-15 Rev. 1	DRMS Software Verification and Validation Plan
5	6.4.5	SCE VPL No. S0123-606-1-98 Rev. 1	DU General Software Design Description
6	6.4.10	SCE VPL No. S0123-606-1-346 Rev. 0	LPU General Software Design Description
7	6.4.11	SCE VPL No. S0123-606-1-359 Rev. 1	Electromagnetic Interference (EMI) Test Report on the Radiation Monitoring System
8	6.4.12	SCE VPL No. S0123-606-1-367-0	Software Verification and Validation Final Report
9	6.5.4	SCE Analysis J-SPA-269 Rev.0	ESFAS Radiation Monitor Single Failure Analysis
10	6.5.10	SCE Document 90010A	Nuclear Consolidated Database Document
11	6.5.11	SCE Report No. NSG-97-001	Software Reliability Assessment of Radiation Monitoring System, February 24, 1997
12	6.5.12	SCE Report No. 900400 Rev. 0	Software Evaluation Report
13	6.5.13	SCE Report No. 900402 Rev. 0	Software Configuration Data Base
14	6.5.16	SCE Topical QA Manual	Chapter I-J Rev. 4
15	6.5.6	SUNGS UFSAR	Appropriate UFSAR sections relied upon in this analysis are referenced. Actual copies are not provided.

The documents listed above are provided in the enclosure to this letter. Items 1, 3, 5, 6, and 7, above, also contain additional documents not requested by the NRC. These additional documents are Design Change Notices (DCNs) supporting DU and LPU Software Design Descriptions (ABG-11378, ABG-11395), DCNs supporting Software Quality Assurance Plan and Software Requirements Specifications (ABG-11507 and ABG-11366) and Action Request 970701678-6 supporting the Electromagnetic Interference Test Report on Radiation Monitoring Systems.

Item 10 above requested Nuclear Consolidated Database (NCDB) documents. Not all NCDB documents are relevant to the CPIS Radiation Monitors. Therefore, the relevant NCDB documents have been included in the enclosure.

If you have any questions on this subject, please call me.

Sincerely,



J. L. Rainsberry
Manager, Plant Licensing

Enclosure

cc: E. W. Merschoff, Regional Administrator, NRC Region IV
K. E. Perkins, Jr., Director, Walnut Creek Field Office, NRC Region IV
J. A. Sloan, NRC Senior Resident Inspector, San Onofre Units 2 & 3
M. B. Fields, NRC Project Manager, San Onofre Units 2 and 3

ENCLOSURES

<u>Enclosure</u>	<u>Ref.</u>	<u>Document Number</u>	<u>Title</u>
1	6.4.1	SCE VPL No. S0123-606-1-8 Rev. 1	RMS Software Quality Assurance Plan
2	6.4.2	SCE VPL No. S0123-606-1-9 Rev. 0	RMS Protocol Technical Specifications
3	6.4.3	SCE VPL No. S0123-606-1-10 Rev. 1	System Software Requirements Specifications
4	6.4.4	SCE VPL No. S0123-606-1-15 Rev. 1	DRMS Software Verification and Validation Plan
5	6.4.5	SCE VPL No. S0123-606-1-98 Rev. 1	DU General Software Design Description
6	6.4.10	SCE VPL No. S0123-606-1-346 Rev. 0	LPU General Software Design Description
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13	6.5.13	SCE Report No. 900402 Rev. 0	Software Configuration Data Base
14	6.5.16	SCE Topical QA Manual Chapter I-J Rev. 4	
15	6.5.6	SONGS UFSAR	Appropriate UFSAR sections relied upon in this analysis are referenced. Actual copies are not provided.