



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

June 30, 2011

Mr. Peter Dietrich  
Senior Vice President and  
Chief Nuclear Officer  
Southern California Edison Company  
San Onofre Nuclear Generating Station  
P.O. Box 128  
San Clemente, CA 92674-0128

SUBJECT: SAN ONOFRE NUCLEAR GENERATING STATION - NOTIFICATION OF  
INSPECTION (INSPECTION REPORT 05000361; 05000362/2011004) AND  
REQUEST FOR INFORMATION

Dear Mr. Dietrich:

On August 15, 2011, the U.S. Nuclear Regulatory Commission (NRC) will begin the on-site portion of the Gas Accumulation Management in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems Temporary Instruction at your San Onofre Nuclear Generating Station. These inspections will be performed in accordance with NRC Temporary Instruction (TI) 2515/177.

Experience has shown that this inspection is resource intensive both for the NRC inspectors and your staff. In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. The documents have been divided into two groups.

- The first group lists information necessary for our initial inspection scoping and in-office preparation activities. This information should be separated by information request number, especially if provided electronically (e.g., folder with the information request number). This information should be available to the inspector no later than July 18, 2011. Upon review of these documents, the inspectors will select additional documentation for review upon arrival. By July 25, 2011, the inspector will communicate the initial selected samples.
- The second group of documents requested is needed to support our onsite inspection activities. This set of documents should be available to the inspector on August 15, 2011. It is also requested that corrective action documents and responses to questions developed during the inspection be provided to the inspector as the documents are generated.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Michael Stevens of your licensing organization. If there are any questions about this inspection or the material requested, please contact the inspector, Eric Ruesch, at 817-860-8126 or by email at [eric.ruesch@nrc.gov](mailto:eric.ruesch@nrc.gov).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

In accordance with Code of Federal Regulations, Title 10, Part 2.390 of the NRC's Rules of Practice, a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

Handwritten signature of Thomas R. Farnholtz in cursive, with the word "FOR" written in capital letters at the end of the signature.

Thomas R. Farnholtz, Chief  
Engineering Branch 1  
Division of Reactor Safety

Dockets: 50-361; 50-362  
Licenses: NPF-10; NPF-15

Enclosure: Management of Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems Temporary instruction Document Request

cc w/encl:  
Distribution via listserv for SONGS

**MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY  
HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS TEMPORARY INSPECTION  
DOCUMENT REQUEST**

**Inspection Report:** 05000361; 05000362/2011004

**Inspection Dates:** August 15-19, 2011

**Inspection Procedure:** TI 2515/177, "Management of Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems"

**Inspector:** Eric Ruesch, Reactor Engineer  
(817) 860-8126  
eric.ruesch@nrc.gov

The following information should be sent to the Region IV office in hard copy or electronic format (ims.certrec.com or compact disc, preferred), in care of Eric Ruesch, to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The inspector will select specific items from the information requested below and then request from your staff additional documents needed during the onsite inspection weeks. Also, we request that you categorize the documents in your response with the numbered list below. Please provide requested documentation electronically if possible. If requested documents are large and only hard copy formats are available, please inform the inspector(s), and provide subject documentation during the first day of the onsite inspection. If you have any questions regarding this information request, please call the inspector as soon as possible.

**i. Information Requested By July 18, 2011**

1. List of corrective action program documents (with a short description) associated with GL 2008-01, voids in piping, and pressure transients for the previous three years.
2. List of changes (with a short description and tracking number) to the final safety analysis report (FSAR), technical specifications, technical specification bases, and technical requirements manual associated with the resolution of GL 2008-01.
3. List of calculations associated with GL 2008-01, including calculations that have been changed or created in response to GL 2008-01 (with a short description of the calculation and the change).
4. List (with a short description) of gas intrusion mechanisms that apply to the plant and the affected system locations (e.g. identify the source, conditions, and expected void locations).
5. List of the suction piping sections identified as susceptible to gas accumulation (the list should identify the corresponding system).

**MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS TEMPORARY INSPECTION DOCUMENT REQUEST**

6. List of the discharge piping sections identified as susceptible to gas accumulation (the list should identify the corresponding system).
7. Copies of isometric drawings of the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems (hard-copies are preferred).
8. Copies of piping and instrumentation diagrams (P&IDs) of the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems (hard-copies are preferred).
9. Copies of program documents and procedures developed to implement the resolution of GL 2008-01.
10. List of actions that were completed in response to GL 2008-01.
11. Copies of the modification packages for hardware modifications as part of the resolution of GL 2008-01.
12. Design basis documents of the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems.
13. Design basis documents of keep-full systems of the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems.
14. System walkdown reports associated with the resolution of GL 2008-01.
15. If applicable, provide a list of inaccessible locations where plant walkdowns of the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems have not been completed. Include an explanation of why each area is considered inaccessible.
16. Copies of surveillance procedures associated with the resolution of GL 2008-01 and the results of the last two surveillances for the Emergency Core Cooling, Decay Heat Removal, and Containment Spray systems.
17. Copies of procedures used for detecting and determining void volumes.
18. Copies of procedures used for filling and venting.
19. Copies of trends of periodic venting results.
20. Copies of the engineering evaluations performed for all identified voids.
21. Basis for the void acceptance criteria (e.g. calculation). If applicable, provide the justification for any deviation from the void acceptance criteria established by the Office of Nuclear Reactor Regulation (NRR).

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DOCUMENT REQUEST**

- 22. Copy of any void transport analyses.
- 22. Copy of vortexing calculations associated with systems under the scope of GL 2008-01.
- 23. Copies of self-assessments associated with the implementation of the GL 2008-01 program.

**II. Information Requested By August 15, 2011**

- 24. Copies of the selected corrective action program documents.
- 25. Copies of the selected licensing and design basis document changes.
- 26. Copies of the selected calculations.
- 27. Copies of training documents that ensure that personnel are aware of gas-related concerns.
- 28. Copies of corrective action program implementing procedures.
- 29. Electronic copies of the current technical specifications, technical specification bases, final safety analysis report, and technical requirements manual.

Inspector Contact Information:

Eric Ruesch  
Reactor Engineer  
(817) 860-8126  
[eric.ruesch@nrc.gov](mailto:eric.ruesch@nrc.gov)

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