



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

NSIC

January 23, 1980

Docket No. 50-312

Mr. J. J. Mattimoe  
Assistant General Manager and  
Chief Engineer  
Sacramento Municipal Utility District  
6201 S Street  
P. O. Box 15830  
Sacramento, California 95813

Dear Mr. Mattimoe:

In our continuing evaluation of the electrical override/bypass aspects of the containment purge system at the Rancho Seco Nuclear Generating Station, we have identified additional information required in order to complete our review. This information is identified in the enclosure. It is requested that this information be provided within 30 days of receipt of this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read "Robert W. Reid".

Robert W. Reid, Chief  
Operating Reactors Branch #4  
Division of Operating Reactors

Enclosure:  
Request for Additional  
Information on Electrical  
Override/Bypass Aspects of  
Containment Purge Systems

cc w/enclosure:  
See next 2 pages

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Sacramento Municipal Utility  
District

cc w/enclosure(s):

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U. S. Nuclear Regulatory Commission  
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Atomic Safety and Licensing Appeal  
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California Department of Health  
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Radiological Health Section  
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Sacramento, California 95814

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REQUEST FOR ADDITIONAL INFORMATION  
FOR CONTAINMENT PURGE SYSTEM AND  
CONTAINMENT VENTING SYSTEM FOR  
RANCHO SECO  
DOCKET NO. 50-312

1. The docketed information as to the design of Engineered Safety Features (ESF) such as the containment ventilation isolation (CVI) systems does not adequately address the following areas. Please discuss how your ESF design conforms with each:
  - 1 - The overriding\* of one type of safety actuation signal (e.g., radiation) should not cause the blocking of any other type of safety actuation signal (e.g., pressure) to the isolation valves.
  - 2 - Sufficient physical features (e.g., key lock switches) should be provided to facilitate adequate administrative controls.
  - 3 - The system-level annunciation of the overridden status should be provided for the containment isolation system and for every safety system impacted when an override is active.
  - 4 - Diverse signals should be provided to initiate isolation of the containment ventilation system. Specifically, containment high radiation, safety injection actuation, and containment high pressure should automatically initiate Containment Ventilation Isolation (CVI).
  - 5 - The instrumentation and control systems provided to initiate ESF should be designed and qualified as safety-grade equipment.
  - 6 - The overriding or resetting\* of the isolation actuation signal should not cause the automatic motion of any ESF valve.
2. Provide the schematic drawings of your purge and vent system and control room heating, ventilation and air conditioning system.
3. Does the containment ventilation/purge valve isolation (CVI) incorporate any type of post-DBA manual override feature?

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\*The following definitions are given for clarity of use in this issue: Override - the signal is still present, and it is blocked in order to perform a function contrary to the signal; Reset - the signal has come and gone, and the circuit is being cleared to return to the normal condition.

4. Is your safety injection system actuated by the same low primary system pressure circuit or setpoint as is the containment isolation?

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