



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

OCT 30 1979

MEMORANDUM FOR: R. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

FROM: G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

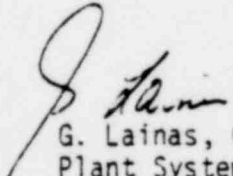
SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - CONTAINMENT
PURGE SYSTEM - RANCHO SECO NUCLEAR GENERATING
STATION (TAC 10206)

REFERENCES: 1. Letter to R. Reid from J. Mattimoe, dated
January 4, 1979

2. Letter to R. Reid from J. Mattimoe, dated
June 15, 1979

Plant Name: Rancho Seco Nuclear Generating Station
Docket No.: 50-312
Project Manager: D. Garner
Review Status: Awaiting Information

With regard to the containment purge and vent system at Rancho Seco Nuclear Generating Station, the licensee plans to justify unlimited purging (Reference 1). The Plant Systems Branch, Section B, after having reviewed the documents (References 1 and 2), filed by the licensee, has prepared the enclosed request for additional information. Section A is continuing their review and will provide questions regarding the electrical and instrumentation aspects of containment purging in January 1980.


G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

Enclosure:
As stated

1354 148

R. Reid

- 2 -

OCT 30 1979

Contacts:

J. Kerrigan, X28129
D. Shum, X27058

cc w/enclosure:

D. Eisenhut
B. Grimes
W. Gammill
L. Nichols
G. Lainas
E. Reeves
E. Adensam
D. Garner
D. Tondi
D. Shum
J. Kerrigan
J. T. Beard
G. Knighton
V. Noonan
F. Witt
J. Zudans
R. Scholl

1354 149

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

1. With regard to the containment purge and venting system (i.e., both the 66" purge lines and the 12" vent lines), provide the following information:
 - a. Discuss the provisions made to ensure that isolation valve closure will not be prevented by debris which could potentially become entrained in the escaping air and steam.
 - b. Discuss the provisions made for testing the availability of the isolation function and the leakage rate of the isolation valves, individually, during reactor operation.
 - c. Specify the amount of containment atmosphere released through the purge and vent isolation valves for a spectrum of break sizes during the maximum closure time allowed in your Technical Specifications.
 - d. Provide an analysis to demonstrate the acceptability of the provisions made to protect structures and safety-related equipment; e.g., fans, filters, and ductwork, located beyond the purge system isolation valves against loss of function from the environment created by the escaping air and steam.
 - e. For the containment purge isolation valves, specify the differential pressure across the valve for which the maximum leak rate occurs. Provide test results (e.g., from vendor tests of leakage rate versus valve differential pressure) which support your conclusion.
 - f. Provide an analysis of the reduction in the containment pressure resulting from the partial loss of containment atmosphere during the accident for ECCS backpressure determination.
2. Provide a schematic drawing of your vent and purge system.