



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

NRC POR

NOV 19 1979

MEMORANDUM FOR: R. Reid, Chief, Operating Reactors Branch #4, DOR
FROM: G. Lainas, Chief, Plant Systems Branch, DOR
SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - CONTAINMENT
PURGE SYSTEM - ARKANSAS NUCLEAR ONE, UNIT 2
(TAC 10212)

Plant Name: Arkansas Nuclear One, Unit 2
Docket No.: 50-268
Project Manager: G. Vissing
Review Status: Awaiting Information

Plant Systems Branch has identified the enclosed additional information as being required in order that we can complete our evaluation of the electrical override/bypass aspects of the containment purge matter.

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

Enclosure:
As stated

Contact:
R. Scholl
X-27162

cc w/enclosure:
D. Eisenhut D. Shum
W. Gammill J. Kerrigan
L. Nichols G. Knighton
G. Lainas V. Noonan
E. Reeves F. Witt
E. Adensam J. Zudans
G. Vissing R. Scholl
D. Tondi

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REQUEST FOR ADDITIONAL INFORMATION
FOR CONTAINMENT PURGE SYSTEM AND
CONTAINMENT VENTING SYSTEM FOR
ARKANSAS NUCLEAR ONE, UNIT 2
DOCUMENT NO. 50-368

1. Your response does not adequately address the following areas. Please discuss how your 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 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 CVI should be designed and qualified as safety-grade equipment.
 - 6 - The overriding or resetting* of the isolation actuation signal should not cause the automatic reopening of any isolation/purge valve.
2. Provide the schematic drawing of your purge and vent system.

*The following definitions are given for clarify 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.