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DEC 18 1979

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MEMORANDUM FOR: T. Ippolito, Chief  
Operating Reactors Branch #3  
Division of Operating Reactors

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - CONTAINMENT  
PURGE SYSTEM - BROWNS FERRY UNITS 1, 2, AND 3  
(TAC 10187)

Plant Name: Browns Ferry Units 1, 2, and 3  
Docket Nos.: 50-259/260/296  
Project Manager: R. Clark  
Review Status: Awaiting Information

The Plant Systems Branch has identified the enclosed additional information as being required with 30 days in order that we can complete our evaluation of the electrical override/bypass aspects of the containment purge matter on schedule.

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

Contact:  
R. Scholl, X27162

Enclosure:  
Request for Additional  
Information

cc w/enclosure:

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SURNAME	R. Clark	J. Knight	RScholl:sah	DTondi	GLainas
DATE			12/18/79	1/1/79	12/18/79

REQUEST FOR ADDITIONAL INFORMATION  
FOR CONTAINMENT PURGE SYSTEM AND  
CONTAINMENT VENTING SYSTEM FOR  
BROWNS FERRY UNITS 1, 2 AND 3  
DOCKET NOS. 50-259/260/296

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 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 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.

\*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.

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