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

JANUARY 21 1980

Docket Nos. 50-254
and 50-265

Mr. D. Louis Peoples
Director of Nuclear Licensing
Commonwealth Edison Company
P. O. Box 767
Chicago, Illinois 60690

Dear Mr. Peoples:

We have been reviewing your submittals relating to the Quad Cities Units Nos. 1 and 2 containment purge system. To assist us in our review, we request the information identified in the enclosure. Please provide the requested information within 30 days of receipt of this letter.

Sincerely,

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
see next page

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cc:

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REQUEST FOR ADDITIONAL INFORMATION FOR CONTAINMENT PURGE SYSTEM AND CONTAINMENT VENTING SYSTEM FOR QUAD CITIES UNITS 1 AND 2 DOCKET NOS -254/265

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.

2. Provide the process and instrumentation (P&ID) and schematic drawings of your purge and vent system.

*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.