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January 12, 1983

Docket No. 50-333

Mr. Leroy W. Sinclair  
 President and Chief Operating Officer  
 Power Authority of the State of New York  
 10 Columbus Circle  
 New York, New York 10019

Dear Mr. Sinclair:

SUBJECT: NUREG-0737 ITEM II.E.4.2, CONTAINMENT ISOLATION DEPENDABILITY,  
 POSITIONS SIX AND SEVEN

Re: James A. FitzPatrick Nuclear Power Plant

We have completed our review of your submittals pertaining to the subject TMI Action Plan items. Regarding Item II.E.4.2.6, Containment Purge Valves, we requested by letter dated October 22, 1979 that you commit to the Interim Staff Position pertaining to containment vent and purge. You responded by letter dated February 29, 1980, as supplemented by your letters dated May 6, 1980 and June 13, 1980, which identified the measures you were implementing to meet the Interim Staff Position. Since you presently meet the Interim Staff Position regarding containment vent and purge, no further action is required, and, thus, we consider NUREG-0737 Item II.E.4.2.6 complete for your facility.

Regarding Item II.E.4.2.7, Radiation Signal on Purge Valves, you informed us by letter dated July 7, 1981 that you had incorporated the implementation of that item with that of another item, II.F.1.3, Containment High-Radiation Monitors. Since the containment isolation valves at your facility will now automatically isolate on a high radiation signal initiated by radiation monitors installed in accordance with II.F.1.3 we consider Item II.E.4.2.7 to be complete for your facility. A copy of our Safety Evaluation is enclosed.

Sincerely,

ORIGINAL SIGNED BY

Domenic B. Vassallo, Chief  
 Operating Reactors Branch #2  
 Division of Licensing

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 PDR ADOCK 05000333 PDR  
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Enclosure:  
 1. Safety Evaluation on II.E.4.2.7

cc:  
 See next page

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DATE	1/12/83	1/12/83	1/12/83	1/12/83	1/17/83		

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cc:

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

JAMES A. FITZPATRICK NUCLEAR POWER PLANT

NUREG-0737, ACTION ITEM II.E.4.2, CONTAINMENT ISOLATION DEPENDABILITY, POSITION SEVEN

1.0 Introduction

As a consequence of the accident at TMI-2, implementation of a number of new requirements has been recommended for operating reactors. These new requirements are described in NUREG-0737, "Clarification of TMI Action Plan Requirements", November 1980. We have requested all operating reactor licensees to implement, or otherwise achieve compliance with each of these NUREG-0737 Action Plan Items. This evaluation addresses the compliance of the James A. FitzPatrick Nuclear Power Plant with Action Plan Item II.E.4.2, position seven.

2.0 Review Criteria

Action Item II.E.4.2, position seven requires that containment purge and vent isolation valves must close on a high radiation signal. The radiation monitors that provide the high radiation signals to isolate the valves must sense primary containment atmosphere. However, the location of the monitors does not have to be inside primary containment, but can be downstream of the purge exhaust valves or in a separate system that directs primary containment atmosphere to radiation monitors located outside containment and then exhausts the containment air back into containment.

The evaluation does not include a review of radiation monitor quality, set-point, redundancy, or isolation/separation from safety systems.

3.0 Evaluation and Conclusions

NUREG-0737 Item II.F.1.3, Containment High-Range Radiation Monitor, calls for the installation of containment high-range radiation monitors. The guidance associated with this item specifies, in part, that the monitors be located in containment to view a large segment of the containment atmosphere in order to more accurately reflect and monitor accident conditions. By letter dated July 7, 1981 the licensee informed us that it was implementing this item and installing components that meet the NUREG-0737 criteria. The components would be installed in physically separate locations in the primary containment drywell at Elevations 282 and 291.

In the same letter, the licensee informed us that it was implementing the requirements of Item II.E.4.2.7, Closure of Containment Vent and Purge Valves on High Radiation, by utilizing a signal from the new radiation monitors installed in accordance with Item II.F.1.3, as discussed above, to initiate containment isolation.

Therefore, since the containment purge and vent isolation valves will automatically close on a high-radiation signal initiated from radiation detectors located in the drywell that monitor the primary containment environment, we conclude that the licensee's response to Item II.E.4.2.7 is acceptable.

Dated: January 12, 1983

Principal Contributor: J. Hegner