



VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Blacksburg, Virginia 24061

NUCLEAR REACTOR LABORATORY

17 March 1980
Date

MEMORANDUM

TO: Division of Licensing, U.S. Nuclear Regulatory Commission

FROM: Reactor Supervisor, VPI & SU Research Reactor

REF: License Number R-62, Docket No. 50-124

SUBJECT: Request for Approval of Change in Licensee's R-62 Technical Specifications

Attached for your review is a written confirmation by the Reactor Safety Committee chairman that the VPI & SU Reactor Safety Committee has reviewed and approved the VPI & SU Reactor Staff's proposal for a change in Technical Specifications.

COMMENTS: *Refer to table 1: Primary flow detector, Portable radiation survey instruments, low power fuel elements, permanent radiation monitor instruments, control rod reactivity insertion rates, Vice-President for Admin., Radiation Safety Committee, and Secondary cooling system changes*

[Signature]
Chairman, Reactor Safety Committee

cc: Vice President for Administration
and Operations
Nuclear Reactor Laboratory Director
Reactor Safety Committee Chairman
Reactor Staff

TABLE 1

Proposed Technical Specification Changes

<u>Item</u>	<u>Description</u>
Primary Flow Detector	Changed from specific type detector to general type detector.
Portable Radiation Survey Instruments	Performance specifications to address new equipment. Incorporated fast and slow neutron requirements into one range; Beta-Gamma survey instrument range expanded
Low Power Fuel Elements	Deleted reference to Low Power Elements (not at facility).
Installed Radiation Monitoring Instruments	Performance specifications to address new equipment Range change from 0.01-10.0 mR/hr. to 0.1-10000 mR/hr.
Control Rod Reactivity Insertion Rates	Deleted insertion rate with core devoid of water. Response to an NRC violation; will address rod maintenance.
Vice-President Administration	Changed wording to Vice-President of Administration and Operations.
Radiation Safety Committee	Changed wording to Reactor Safety Committee.
Secondary Cooling System	Performance specifications to allow installation of the new system.



VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Blacksburg, Virginia 24061

NUCLEAR REACTOR LABORATORY

September 24, 1982

Dr. Cecil O. Thomas, Chief
 Standardization & Special Projects Branch
 Division of Licensing
 U. S. Nuclear Regulatory Commission
 Washington, DC 20555

RE: Docket No. 50-124, License No. R-62

Dear Dr. Thomas:

This letter is being written to request a change to our technical Specifications. Our current Technical Specifications list in Table I, Safety System Functions, Item No. 3, the Coolant Moderator Flow < Set Point detector as measured by a flow orifice in the process pit. Our proposed changes to R-62, Docket 50-124, Technical Specifications, submitted to you on May 15, 1981, listed in Table I Instrument Arrays, Section A, Measuring Channel, Detector column: Ultrasonic or Flow Orifice, D/P detector and Section B, Safety Channel, Detector column: Ultrasonic or flow orifice, D/P detector.

The Virginia Polytechnic Institute and State University Reactor staff proposes to delete the reference to the type of flow detector and replace with: flow detector, 1% accuracy minimum, over the full scale range measured. This proposed change is due to the following reasons:

- (1) presently, we desire to install a different type of flow detector (paddle wheel) than originally planned (ultrasonic);
- (2) in the event of future flow detector and/or circuitry failures which require significant repairs, a spare detector could be expediently utilized (without a change in Technical Specifications);
- (3) if future changes occur with the type of flow detector desired, no change in Technical Specifications would be required (yet minimum accuracy requirements would be assured), thus facilitating operational flexibility and safety;
- (4) requiring a minimum accuracy, as opposed to the detector type, will ensure safer operation since regardless of future flow rate changes (due to proposed power upgrade), detector changes, alarm set point changes, or procedural changes, the detector must operate according to a specified accuracy, and;
- (5) The 1% accuracy requirement complies with the presently-installed detector performance characteristics.

Sincerely,

Peter D. Holian

Peter D. Holian
 Reactor Supervisor

PDH:jd
 cc: T. F. Parkinson
 VPI Reactor Safety Committee
 VPI Reactor Staff/Operators

Dupe 8212280216