

7L PSMW
PENNSTATE



Charles L. Hosler
Senior Vice President for Research
and Dean of the Graduate School

(814) 865-2516

114 Kern Graduate Building
The Pennsylvania State University
University Park, PA 16802

April 19, 1991

Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Re: Revision to the License, Technical Specifications,
and Safety Analysis Report for the Penn State
Breazeale Reactor, License No. R-2, Docket No. 50-05

Dear Sir or Madame:

A new reactor console has been designed and fabricated to replace the aging system presently in place at the Penn State Breazeale Reactor. Attached is a license amendment request which describes the changes to the facility and provides a safety evaluation of the changes. Related to these changes, modifications to the Technical Specifications are requested and revised pages to update the Safety Analysis Report are provided. All references are available for inspection at the PSBR. The Penn State Reactor Safeguards Committee has reviewed and approved this material. No significant hazards have been identified.

At an appropriate time early in the review process, we would appreciate the opportunity for our technical staff and vendor representatives to meet with your staff to respond to any questions or issues, so as to expedite the review process.

An exemption of fees for this licensing action is requested under the provisions of 10 CFR Part 170.11(a)(4).

If you have questions on this matter, please refer them directly to the principal author of the attachments, Daniel E. Hughes, or the director, Marcus H. Voth at (814)865-6351.

Sincerely,

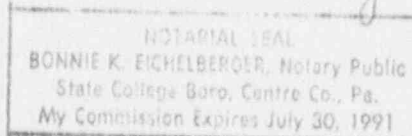
Charles L. Hosler
Senior Vice President for Research
and Dean of Graduate School

CLH:MHV/skr

Attachments

cc: Region I Administrator

Subscribed to and sworn before me on this 1st day of May, 1991,
Notary Public in and for Centre County, Pennsylvania.



9105070256 910419
PDR ADOCK 05000005
PDR

An Equal Opportunity University

A020
11

License Amendment Request
Penn State Breazeale Reactor
License No. R-2, Docket No. 50-05

Reactor Console Change

April 19, 1991

One of the design objectives for the replacement reactor console was to provide a state-of-the-art design that did not require changes to the license (technical specifications). This was accomplished through separation of the reactor safety system (RSS), a hard-wired analog system, and the reactor protection, control and monitoring system (PCMS), a digital computer-based system. However, it was found that expanded flexibility could be permitted safely by amending certain technical specifications. Other perfunctory changes are included in this submittal for convenience.

The amendment request is divided into four separate appendices as follows:

Appendix A: Changes to Technical Specifications

This section lists the proposed change, the reason for the change, the safety evaluation of the change, and provides replacement pages for the Technical Specifications document.

Appendix B: Safety Evaluation of Reactor Console Change

The existing Safety Analysis Report was reviewed to determine that the reactor console change did not constitute an unreviewed safety question as defined in 10 CFR Part 50.59. The evaluation is documented in this Appendix.

Appendix C: Installation Plan

This document is not part of the operating license analysis. It is provided as background information to show that the change is being made in a safe, methodical, and prudent manner. The physical change, checkout, startup testing, and training program are outlined.

Appendix D: Safety Analysis Report Revisions

On March 1, 1985, the Safety Analysis Report was submitted in a revised and updated form along with the application for renewal of license R-2. In an attempt to keep that document current, major revisions were necessary for Section VII, Control and Instrumentation. A replacement section is provided, which is more appropriately entitled "Reactor Safety, Protection, Control, and Monitoring System". Section IX, Safety Evaluation, also required minor changes. In addition, the appropriate editorial updates are provided with instructions for the appropriate page changes.