UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 1, 1995

Mr. J. E. Cross
Senior Vice President and
Chief Nuclear Officer
Nuclear Power Division
Duquesne Light Company
Post Office Box 4
Shippingport, PA 15077

SUBJECT: CHANGE TO BASES OF BEAVER VALLEY POWER STATION UNIT NO. 1 - TECHNICAL SPECIFICATION 3/4.1.2 (TAC NO. M92145)

Dear Mr. Cross:

By letter dated February 28, 1995, Duquesne Light Company submitted the Core Operating Limits Report for the Beaver Valley Power Station, Unit No. 1 (BVPS-1) cycle 11 reload design. This submittal also included a proposed change to the Bases for BVPS-1 Technical Specification (TS) 3/4.1.2.

The proposed Bases change would revise the second sentence of the first paragraph on page B 3/4 1-3 of the BVPS-1 TSs to replace the words "EOL" and "Equilibrium" with the words "BOL" and "peak" respectively. The proposed change would also revise this sentence to increase the required volume of borated water in the refueling water storage tank (RWST) from 49,917 gallons to 65,000 gallons. Your submittal stated that these proposed Bases changes are based on a recent change in methodology and assumptions used for calculating boration requirements. The revised sentence would read: "The maximum boration capability requirements occur at BOL from full power peak xenon conditions and requires 11,336 gallons of 7000 ppm borated water from the boric acid storage tanks or 65,000 gallons of 2000 ppm borated water from the refueling water storage tank." The increase in RWST volume requirements continue to be bounded by the requirements of TS 3.1.7.8 which requires more than 439,000 gallons in the RWST. Therefore, no TS changes are required.

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The NRC staff has reviewed the proposed change to the Bases for BVPS-1 TS 3/4.1.2 and we have no objection to the proposed change. A copy of revised Bases page B 3/4 1-3 is enclosed for your use.

Sincerely,

original signed by
Donald S. Brinkman, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-334

Enclosure: BVPS-1 TS Bases Page
B 3/4 1-3

cc w/encl: See next page

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The NRC staff has reviewed the proposed change to the Bases for BVPS-1 TS 3/4.1.2 and we have no objection to the proposed change. A copy of revised Bases page B 3/4 1-3 is enclosed for your use.

Sincerely,

Donald S. Brinkman

Donald S. Brinkman, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-334

Enclosure: BVPS-1 TS Bases Page
B 3/4 1-3

cc w/encl: See next page

J. E. Cross
Duquesne Light Company

Beaver Valley Power Station
Units 1 & 2

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3/4.1.2 BORATION SYSTEMS (Continued)

The boration capability of either system is sufficient to provide a SHUTDOWN MARGIN from all operating conditions of 1.0% Δk/k after xenon decay and cooldown to 200°F. The maximum boration capability requirements occur at BOL from full power peak xenon conditions and requires 11,336 gallons of 7000 ppm borated water from the boric acid storage tanks or 65,000 gallons of 2000 ppm borated water from the refueling water storage tank.

With the RCS temperature below 200°F, one injection system is acceptable without single failure consideration on the basis of the stable reactivity condition of the reactor and the additional restrictions prohibiting CORE ALTERATIONS and positive reactivity change in the event the single injection system becomes inoperable.

The boration capability required below 200°F is sufficient to provide a SHUTDOWN MARGIN of 1% Δk/k after xenon decay and cooldown from 200°F to 140°F. This condition requires either 5000 gallons of 7000 ppm borated water from the boric acid storage tanks or 175,000 gallons of 2000 ppm borated water from the refueling water storage tank.

3/4.1.3 MOVABLE CONTROL ASSEMBLIES

The specifications of this section ensure that (1) acceptable power distribution limits are maintained, (2) the minimum SHUTDOWN MARGIN is maintained, and (3) the potential effects of rod misalignment on associated accident analyses are limited. OPERABILITY of the movable control assemblies is established by observing rod motion and determining that rods are positioned within ± 12 steps (indicated position), of the respective group demand counter position. The OPERABILITY of the rod position indication system is established by appropriate periodic CHANNEL CHECKS, CHANNEL FUNCTIONAL TESTS and CHANNEL CALIBRATIONS. OPERABILITY of the control rod position indicators is required to determine control rod position and thereby ensure compliance with the control rod alignment and insertion limits. The OPERABLE condition for the analog rod position indicators is defined as being capable of indicating rod position within ± 12 steps of the associated group demand indicator. For power levels below 50 percent, the specifications of this section permit a one hour stabilization period to permit stabilization of known thermal drift in the analog rod position indicator channels. During this stabilization period, greater reliance is placed upon the group demand position indicators to determine rod position. Above 50 percent power, rod motion is not expected to induce thermal transients of sufficient magnitude to exceed the rod position indicator instrument accuracy of ± 12 steps. Limited use of rod position indication primary detector voltages is allowed as a backup method of determining control rod positions. Comparison of the group demand indicator to the calibration curve is sufficient to allow determination that a control rod is indeed misaligned from its bank when primary voltage measurements are used. Comparison of the group demand counters to the bank insertion limits with verification of rod position with the analog rod