

October 11, 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 2 - TECHNICAL SPECIFICATION 3/4.1.2 (TAC NO. M93696)

Dear Mr. Cross:

By letter dated September 20, 1995, Duquesne Light Company submitted a proposed change to the Bases for Beaver Valley Power Station, Unit 2 (BVPS-2) Technical Specification (TS) 3/4.1.2.

The proposed change would revise the second sentence of the fourth paragraph on page B 3/4 1-3 of the BVPS-2 TSs to replace the words "EOL" and "equilibrium" with "BOL" and "peak" respectively. The need for this proposed change was identified during an NRC staff, licensee, and Westinghouse conference call to discuss a similar change proposed by letter dated February 28, 1995, for Beaver Valley Power Station, Unit No. 1 (BVPS-1). The BVPS-1 change was approved by NRC staff letter dated June 1, 1995. Your September 20, 1995, submittal stated that this proposed change is consistent with the BVPS-1 change which was based on a recent change in methodology and assumptions used for calculating boration requirements. You also stated that the BVPS-2 borated water volumes have been evaluated and it has been determined that the current volumes are conservative; therefore, no change to these volumes is required.

The NRC staff has reviewed the proposed change to the Bases for BVPS-2 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,

/s/

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

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Docket No. 50-412

Enclosure: BVPS-2 TS Bases Page
B 3/4 1-3

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Sincerely,

A handwritten signature in cursive script that reads "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. 50-412

Enclosure: BVPS-2 TS Bases Page
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cc w/encl: See next page

J. E. Cross
Duquesne Light Company

Beaver Valley Power Station
Units 1 & 2

cc:

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REACTIVITY CONTROL SYSTEMSBASES3/4.1.2 BORATION SYSTEMS (Continued)

The OPERABILITY of the Refueling Water Storage Tank (RWST) as part of the ECCS ensures that a sufficient supply of borated water is available for injection by the ECCS in the event of either a LOCA or a steamline break. The limits on RWST minimum volume and boron concentration ensure that: 1) sufficient water is available within containment to permit recirculation cooling flow to the core, 2) the reactor will remain subcritical in the cold condition (68 to 212 degrees-F) following a small break LOCA assuming complete mixing of the RWST, RCS and ECCS water volumes with all control rods inserted except the most reactive control rod assembly (ARI-1), 3) the reactor will remain subcritical in the cold condition following a large break LOCA (break flow area > 3.0 ft²) assuming complete mixing of the RWST, RCS, ECCS, chemical addition tank, containment spray system piping, and other water volumes that may eventually reside in the sump Post-LOCA with all control rods assumed to be out (ARO), 4) long term subcriticality following a steamline break assuming ARI-1 and to preclude fuel failure.

The maximum allowable value for the RWST boron concentration forms the basis for determining the time (post-LOCA) at which operator action is required to switch over the ECCS to hot leg recirculation in order to avoid precipitation of the soluble boron.

The limitations for a maximum of one centrifugal charging pump to be OPERABLE and the Surveillance Requirement to verify all charging pumps except the required OPERABLE pump to be inoperable below 350°F provides assurance that a mass addition pressure transient can be relieved by the operation of a single PORV. Substituting a Low Head Safety Injection pump for a charging pump in MODES 5 and 6 will not increase the probability of an overpressure event since the shutoff head of the Low Head Safety Injection pumps is below the setpoint of the overpressure protection system.

The boration capability of either system is sufficient to provide a SHUTDOWN MARGIN from all operating conditions of 1.77% $\Delta k/k$ after xenon decay and cooldown to 200°F. The maximum boration capability requirements occur at BOL from full power peak xenon conditions and requires 13,390 gallons of 7000 ppm borated water from the boric acid storage tanks or 58,965 gallons of 2000 ppm borated water from the refueling water storage tank.

With the RCS temperature below 350°F, one boron injection flow path 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.