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

June 16, 1999

LICENSEE: Duquesne Light Company (DLC)

FACILITY: Beaver Valley Power Station, Unit Nos. 1 and 2 (BVPS-1 and BVPS-2)

SUBJECT: SUMMARY OF MAY 18, 1999, MEETING WITH DLC STAFF TO DISCUSS TECHNICAL ASPECTS OF LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATION LIMITING SAFETY SYSTEM SETPOINTS (TAC NOS. MA4616 AND MA4617)

On May 18, 1999, Nuclear Regulatory Commission (NRC) staff met with representatives of DLC and Westinghouse to discuss DLC's License Amendment Request to revise Technical Specification (TS) Limiting Safety System setpoints to be more conservative. Specifically, to discuss technical aspects of the methodologies used by DLC to determine the new setpoints. The licensee had requested this meeting. Enclosure 1 is a list of meeting attendees. Enclosure 2 is a copy of the handout material.

DLC provided a brief background of their identification of the non-conservative values in the current TSs, and the administrative controls put in place to ensure safe operation. Additionally, DLC discussed the setpoint methodology used in determining the new setpoints, and provided a summary of the changes made by the requested amendment (Enclosure 2). Based on questions asked by the NRC staff, the licensee provided the following clarifications or additional information:

- DLC's changes to the analyses incorporate site specific uncertainty values, rather than the original generic Westinghouse values; the methodologies used in the new analyses, however, are unchanged from the NRC approved methodologies (WCAP-11419 for BVPS-1 and WCAP-11366 for BVPS-2).

- Uncertainties of Instrument/test equipment used in surveillances are included in the setpoint analyses.

- Deletion of lag compensation terms from the $OP_{\Delta}T$ and $OT_{\Delta}T$ equations in the BVPS-1 TSs is required in order to reflect the actual plant hardware configuration. The RTD bypass was physically removed by a previous modification. RTDs are now in the loop such that no time lag for transport time is required. The BVPS-2 TSs still include the lag compensation terms, and are correct, because this hardware modification was not installed in BVPS-2.

- Westinghouse has performed a detailed statistical analysis of rack drift. Both BVPS-1 and BVPS-2 have experienced less drift than assumed in the uncertainty calculations. Therefore, instrument rack performance is bounded by the uncertainty calculations.

The licensee agreed to provide the staff with copies of the Westinghouse Technical Bulletin, ESBU-TB-96-07-RO, and letter, DLC-96-310, referenced in their January 18, 1999, submittal. The staff stated that the presentation gave them a better understanding of how the analyses had been performed and that, with copies of these references, they should be able to move forward with their reviews of the licensee's submittal.

Original signed by:

Daniel S. Collins, Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-334 and 50-412

Enclosures: 1. List of Attendees
2. Licensee Handouts

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LIST OF ATTENDEES

MEETING WITH DLC STAFF MAY 18, 1999, TO DISCUSS TECHNICAL ASPECTS OF LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATION LIMITING SAFETY SYSTEM SETPOINTS (TAC NOS. MA 4616 AND MA4617)

NAME	ORGANIZATION
D. Collins	NRC/NRR
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H. BalukJian	NRC/NRR
R. Hart	DLC
A. Dometrovich	DLC
R. Hruby	DLC
M. Manoleras	DLC
E. Ozenis	Westinghouse

Enclosure 1

Beaver Valley Power Station, Units 1 and 2

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Duquesne Light Company

Presentation of License Amendment Request
Nos. 220 and 88 for the Reactor Trip and
ESFAS Setpoint Changes

Beaver Valley Power Station Unit Nos. 1 and 2

May 18, 1999

Enclosure 2

DLC Attendees

- Ray Hruby
- Randy Hart
- Mark Manoleras
- Tony Dometrovich

Presentation Topics

- Background
- Setpoint Methodology
- Definition of Nominal Trip Setpoint
- RPS/ESFAS Nominal Trip Setpoints
- Changes to Nominal Trip Setpoints and Allowable Values
- Summary of Changes

Background

- Analysis discrepancies
- MDAT
  - extent of condition evaluation
  - issue resolution
- Basis for Continued Operation
- License Amendment Requests

Setpoint Methodology

- Consistent with previously approved methodology as described in WCAP-11419 (Unit 1) and WCAP-11366 (Unit 2)
- Allowable Value (AV) Methodology remains unchanged
- Replace five column Technical Specification format with two column format (Unit 2)

Definition Of Nominal Trip Setpoint

- The nominal value to which the bistable is set. This value is set as accurately as reasonably achievable.

RPS/ESFAS Nominal Trip Setpoints

- Ensures Compliance With Our Design Analysis of Record
- Addresses Verbatim Compliance Issues
- Format Consistent with Approved Vogtle Amendment for Nominal Trip Setpoint

Nominal Trip Setpoints and Allowable Values

- Unit 1 Nominal Trip Setpoint Changes
- Unit 2 Nominal Trip Setpoint Changes
- Unit 1 Allowable Value Changes
- Unit 2 Allowable Value Changes

Summary of Changes

- Delete references to two-loop plant operation including License Condition 2.C.(3).
- Delete references to loop stop valve position.
- Revise LSSS 2.2.1 and LCO 3.3.2.1 to address the use of nominal trip setpoints.
- Remove the majority of the inequality signs and add the term "nominal" to the trip setpoints specified in Tables 2.2-1 and 3.3-4.

Summary of Changes (Continued)

- Revise LSSS 2.2.1 and LCO 3.3.2.1 to make them consistent between Units.
- Revise certain Nominal Trip Setpoints and Allowable Values specified in Tables 2.2-1 and 3.3-4.
- Delete lag compensation terms (τ_4 & τ_5) in the OPΔT and OTΔT equations (for Unit 1 only).
- Revise T' and T" in OTΔT and OPΔT equations (Unit 1 only).

Summary of Changes (Continued)

- Revise K_1 factor in OTΔT equation (Unit 2 only).
- Delete start of motor-driven AFW pumps on UV from the ESFAS Tables (Unit 1 only).
- Delete references to the terms "TA", "Z" and "S" in LSSS 2.2.1, LCO 3.3.2.1 and associated Tables and Bases section (Unit 2 only).
- Revise Bases to reflect changes to Technical Specifications.
- Miscellaneous editorial changes.