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 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439

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SUBJECT: Responds to NRC review of topical rept on containment peak temp. Licensee will provide NRC w/addl calculations, sensitivity studies & analytical support for methodology to address concerns by June 1994.

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H. Fred McCluskey
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U.S. Nuclear Regulatory Commission
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Washington, DC 20555

Gentlemen:

In the Matter of the Application of)
Tennessee Valley Authority)

Docket Nos. 50-438
50-439

**BELLEFONTE NUCLEAR PLANT (BLN) -RESPONSE TO NRC REVIEW OF
TOPICAL REPORT ON CONTAINMENT PEAK TEMPERATURE
(TAC NO. M64118)**

In a letter dated October 28, 1993, NRC identified three specific areas of concern with TVA's proposed approach for analyzing BLN's containment response to steam line break conditions. The concerns arise from the difference between TVA's proposed use of assumptions based upon the Carolina Virginia Test Reactor (CVTR) results rather than the NRC approved methodology of NUREG-0588. The three areas of concern are:

- the use of average CVTR heat transfer coefficients rather than the Uchida correlation specified in NUREG-0588
- the use of $(T_{bulk} - T_{wall})$ rather than $(T_{sat} - T_{wall})$
- the use of 10% revaporization instead of the 8% specified in NUREG-0588

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The TVA methodology accounts for the presence of superheated steam in the containment, a condition not fully addressed by the NUREG-0588 methodology. Although the TVA approach differs from NUREG-0588, TVA still considers the approach conservative and more appropriate than the assumptions made in NUREG-0588 for the conditions present during steam line break accidents at BLN.

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U.S. Nuclear Regulatory Commission

Page 2

DEC 10 1993

In order to assist the NRC in review and approval of this methodology, TVA will provide the NRC with additional calculations, sensitivity studies, and analytical support for the methodology to address each of the concerns by June 1994.

Should there be any questions regarding this information, please telephone Greg Pierce, Site Licensing Manager, at (205) 574-8058.


H. Fred McCluskey

cc (Enclosure):

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ENCLOSURE
BELLEFONTE NUCLEAR PLANT (BLN) - UNITS 1 AND 2

COMMITMENTS

- **TVA will provide the NRC with additional calculations, sensitivity studies, and analytic support for the methodology to address each of the concerns by June 1994.**