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Constellation Energy

R.E. Ginna Nuclear Power Plant

July 6, 2004

Mr. Robert L. Clark
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

Subject: 10CFR50.46 Annual ECCS Report
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Reference: (a) Westinghouse Letter RGE-04-19, Subject: *10CFR50.46 Annual Notification and Reporting for 2003*, dated March 17, 2004.

Dear Mr. Clark:

In accordance with the requirements in 10CFR50.46 paragraph (a)(3)(ii), this annual ECCS report is hereby submitted.

Westinghouse, the provider of LOCA analysis services for the R.E. Ginna Nuclear Power Plant, has provided an update to the peak cladding temperature (PCT) margin in Reference (a).

The large-break LOCA PCT has not changed since the last report. The large-break LOCA PCT remains at 2087°F. The small-break LOCA PCT has increased from 1346°F to 1381°F. This increase has been determined to be bounding and accounts for changes to address inconsistencies in two-phase flow models in the Westinghouse NOTRUMP code. A summary of PCT changes can be found in Attachment 1 to this letter.

If you should have any questions regarding this submittal, please contact Thomas Harding at (585) 771-3384.

Very truly yours,

Mary G. Korsnick

Attachment: LOCA PCT Summary, June 2004 Update

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xc: Mr. Robert Clark (Mail Stop O-8-C2)
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ATTACHMENT 1
LOCA PCT SUMMARY
JULY 2004 UPDATE

ATTACHMENT 1

LOCA PCT SUMMARY

Large-Break LOCA
R.E. Ginna Nuclear Power Plant

Evaluation Model:
 $F_Q = 2.45$

UPI SECY
 $F_{\Delta H} = 1.75$

Fuel: OFA
SGTP = 15%

- | | | |
|----|--|--------------------------|
| A. | Analysis of Record (3/03) (effective 6/03) | PCT = 2087°F |
| B. | 2004 10CFR50.46 Model Assessments | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| C. | Other Margin Allocations | |
| | 1. None | $\Delta PCT = 0^\circ F$ |

Licensing Basis

PCT = 2087°F

Revision Date: 7/2004

ATTACHMENT 1

LOCA PCT SUMMARY

Small-Break LOCA
R.E. Ginna Nuclear Power Plant

Evaluation Model: NOTRUMP Fuel: OFA
 $F_Q = 2.50$ $F_{\Delta H} = 1.75$ SGTP = 15%

- | | | |
|----|--|-----------------------------|
| A. | Analysis of Record (6/95) (effective 6/96) | $\Delta PCT = 1308^\circ F$ |
| B. | 1995 10CFR50.46 Model Assessments | |
| | 1. NOTRUMP Specific Enthalpy Error | $\Delta PCT = 20^\circ F$ |
| | 2. SALIBRARY Double Precision Errors | $\Delta PCT = -15^\circ F$ |
| C. | 1996 10CFR50.46 Model Assignments | |
| | 1. SBLOCA Fuel Rod Initialization Error | $\Delta PCT = 10^\circ F$ |
| D. | 1997 10CFR50.46 Model Assessment | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| E. | 1998 10CFR50.46 Model Assessments | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| F. | 1999 10CFR50.46 Model Assessments | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| G. | 2000 10CFR50.46 Model Assessments | |
| | 1. NOTRUMP - Mixture Level Tracking /
Region Depletion Errors | $\Delta PCT = 13^\circ F$ |
| H. | 2001 10CFR50.46 Model Assessments | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| I. | 2002 10CFR50.46 Model Assessments | |
| | 1. None | $\Delta PCT = 0^\circ F$ |
| J. | 2003 10CFR50.46 Model Assessments | |
| | 1. NOTRUMP – Bubble Rise /
Drift Flux Model Inconsistencies | $\Delta PCT = 35^\circ F$ |
| K. | Ginna Evaluations | |
| | 1. Annular Axial Pellets (1997 evaluation, SEV-1108) | $\Delta PCT = 10^\circ F$ |
| L. | Other Margin Allocations | |
| | 1. None | $\Delta PCT = 0^\circ F$ |

Licensing Basis

PCT = 1381°F

Revision Date: 7/2004