

Britt T. McKinney
Senior Vice President & Chief Nuclear Officer

PPL Susquehanna, LLC
769 Salem Boulevard
Berwick, PA 18603
Tel. 570.542.3149 Fax 570.542.1504
btmckinney@pplweb.com



JUL 25 2006

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Stop OP1-17
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
10 CFR 50.46 – ANNUAL REPORT
PLA-6098

Docket Nos. 50-387
and 50-388

*Reference: PLA-5929 from B. T. McKinney (PPL) to Document Control Desk (NRC),
"10 CFR 50.46 – 30 Day and Annual Reports," dated August 2, 2005.*

This report is being sent in accordance with 10 CFR 50.46 (a)(3)(ii).

10 CFR 50.46(a)(3)(ii) requires (in part) annual reporting of changes to or errors in evaluation models used for calculating Emergency Core Cooling System (ECCS) performance, and an estimate of their effect on the limiting ECCS analysis. Additionally, a proposed schedule is required for reanalysis or identification of other actions necessary to show compliance with 10 CFR 50.46 requirements.

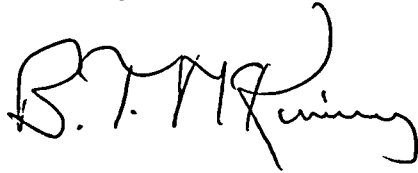
The ECCS performance evaluation method applicable to both Susquehanna SES Unit 1 and Unit 2 is the AREVA EXEM BWR - 2000 LOCA Methodology. Since the submittal of the last annual 10 CFR 50.46 report (Reference 1), there have been no non-zero Peak Cladding Temperature (PCT) changes reported to PPL Susquehanna, LLC. Thus, the current licensing basis PCT remains valid and no further actions are required. This letter meets the annual reporting requirement.

PPL Susquehanna, LLC will continue to track future changes to the evaluation models used in the applicable LOCA analysis methods to ensure that the PCT values remain below the 10 CFR 50.46 limit, and to ensure that the 10 CFR 50.46 reporting requirements are met.

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Please contact Mr. Michael H. Crowthers at (610) 774-7766, if there are any questions concerning this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. T. McKinney". The signature is fluid and cursive, with the first name "B. T." and the last name "McKinney" clearly distinguishable.

B. T. McKinney

copy: NRC Region I

Mr. A. J. Blamey, NRC Sr. Resident Inspector

Mr. R. V. Guzman, NRC Project Manager

Mr. R. Janati, DEP/BRP