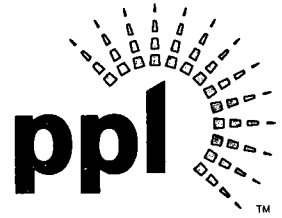


Britt T. McKinney
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JAN 03 2008

U. S. Nuclear Regulatory Commission
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**SUSQUEHANNA STEAM ELECTRIC STATION
PROPOSED LICENSE AMENDMENT NO. 285 FOR
UNIT 1 OPERATING LICENSE NO. NPF-14 AND
PROPOSED LICENSE AMENDMENT NO. 253 FOR
UNIT 2 OPERATING LICENSE NO. NPF-22
CONSTANT PRESSURE POWER UPRATE APPLICATION –
SUPPLEMENT
PLA - 6319**

**Docket Nos. 50-387
and 50-388**

- References:*
- 1) *PLA-6076, B. T. McKinney (PPL) to USNRC, "Proposed License Amendment Numbers 285 for Unit 1 Operating License No. NPF-14 and 253 for Unit 2 Operating License No. NPF-22 Constant Pressure Power Uprate," dated October 11, 2006.*
 - 2) *Nuclear Regulatory Commission Advisory Committee on Reactor Safeguards Letter to the Honorable Dale E. Klein Chairman US Nuclear Regulatory Commission, "Susquehanna Steam Electric Station Units 1 and 2 Extended Power Uprate Application," dated December 20, 2007.*
 - 3) *PLA-6306, B. T. McKinney (PPL) to USNRC, "Proposed License Amendment No. 285 for Unit 1 Operating License No. NPF-14 and Proposed License Amendment No. 253 for Unit 2 Operating License No. NPF-22 Constant Pressure Power Uprate Application – Supplement," dated November 30, 2007.*

Pursuant to 10 CFR 50.90, PPL Susquehanna LLC (PPL) requested in Reference 1 approval of amendments to the Susquehanna Steam Electric Station (SSES) Unit 1 and Unit 2 Operating Licenses and Technical Specifications to increase the maximum power level authorized from 3489 Megawatts Thermal (MWt) to 3952 MWt, an approximate 13% increase in thermal power. The proposed Constant Pressure Power Uprate (CPPU) represents an increase of approximately 20% above the Original Licensed Thermal Power.

The purpose of this letter is to provide supplemental information pursuant to Reference 2. Item 2 of Reference 2 recommends the addition of "an appropriate margin" to the operating limit minimum critical power ratio (OLMCPR) due to uncertainties in the void

ADD 1
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fraction correlation proposed to support operation of SSES Units 1 and 2 at the CPPU power level.

Reference 3 provided supplemental information that justified the void fraction correlation without the need for additional margin due to uncertainties.

Addition of margin to the OLMCPR as recommended would require procurement, storage, and disposal of additional fuel bundles for each SSES Unit 1 and 2 CPPU operating cycle. The additional bundles would be required to reduce core radial peaking to maintain operating margin to the Safety Limit Minimum Critical Power Ratio.

The cost to PPL Susquehanna LLC for these additional fuel bundles would be approximately \$4.2M (2008 market price) for each year, beginning in 2009.

Given the cost and the supplemental information provided in Reference 3 justifying the use of the correlation without the need for additional margin, and the significant costs that PPL would incur, application of the recommended margin is not warranted.

There are no new regulatory commitments associated with this submittal.

PPL has reviewed the "No Significant Hazards Consideration" and the "Environmental Consideration" submitted with Reference 1 relative to the responses. We have determined that there are no changes required to either of these documents.

If you have any questions or require additional information, please contact Mr. Michael H. Crowthers at (610) 774-7766.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 1-3-08



B. T. McKinney

Copy: NRC Region I
Mr. R. V. Guzman, NRC Sr. Project Manager
Mr. R. R. Janati, DEP/BRP
Mr. F. W. Jaxheimer, NRC Sr. Resident Inspector