



DEC 26 2006

Proprietary Information Enclosed

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
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Washington, DC 20555

**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 -
SUPPLEMENT
PLA-6146**

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

- References: 1) PPL Letter 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) NRC Letter to B. T. McKinney, "Susquehanna Steam Electric Station,
Units 1 and 2 - Extended Power Uprate (EPU) Acceptance Review
TAC NOS MD 3309 and MD 3310)," dated November 21, 2006.*
- 3) PPL Letter PLA-6138, 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 - Supplement," dated December 4, 2006.*
- 4) PPL Letter PLA-6128, B. T. McKinney (PPL) to USNRC
"Supplement to 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 25, 2006.*

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 (OLs) and Technical Specifications (TS) 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 (OLTP).

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In Reference 2, NRC identified areas of the Reference 1 application that required additional information in order for NRC to complete their acceptance review. Reference 3 provided the additional information NRC requested. In a teleconference held December 14, 2006, the NRC staff indicated that a final stress analysis report for the new SSES dryers would be needed for NRC to complete the acceptance review. Enclosure 1 provides a proprietary version of the dryer stress analysis report for the new SSES dryers. Enclosure 2 provides a non-proprietary version of this stress analysis report.

There are no new regulatory commitments associated with the additional information provided herein. Reference 4, however, identified four (4) Regulatory Commitments applicable to the Reference 1 license amendment request. The first two (2) were met by the PPL responses provided in Reference 3. Regulatory Commitments 3 and 4 are met by the supplemental information provided herein. Specifically, the ASME load combination tables based on 120% OLTP conditions (Commitment 3) are provided in Section 8 of Enclosure 1. The description of the steam dryer power ascension test plan (Commitment 4) is provided in Enclosure 4.

Enclosure 4 (proprietary version) summarily describes how each of the PPL Reference 4 commitments have been satisfied. Enclosure 5 provides a non-proprietary version. With the supplemental information provided herein, PPL considers all the commitments made in Reference 4 to be met.

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

The supplemental information contained herein is considered by General Electric Company to be proprietary. General Electric Company requests that the proprietary information be withheld from public disclosure in accordance with 10 CFR 2.390 (a) 4 and 9.17 (a) 4. An Affidavit supporting this request is provided in Enclosure 3.

Reference 1 requested NRC to approve the proposed changes by October 15, 2007. As noted in Reference 3, PPL will be replacing the existing steam dryers prior to implementing the uprate. Implementation of the first step of the uprate (approximate 7% increase) is planned to be completed upon startup (entry into Mode 2) from the Spring 2008 Unit 1 refueling outage and subsequently on Unit 2 once all required modifications have been installed. As a result, NRC approval of this application is requested by January 30, 2008.

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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: 12-26-06



B. T. McKinney

- Enclosure 1: Proprietary Version of General Electric Company Nuclear Energy Report
GE-NE-0000-0061-0595-P-R0, "Susquehanna Replacement Steam Dryer
Fatigue Analysis"
- Enclosure 2: Non-Proprietary Version of General Electric Company Nuclear Energy
Report # GE-NE-0000-0061-0595-NP-R0, "Susquehanna Replacement
Steam Dryer Fatigue Analysis"
- Enclosure 3: General Electric Company Affidavit
- Enclosure 4: Description of PPL Commitment Closure (Proprietary Version)
- Enclosure 5: Description of PPL Commitment Closure (Non Proprietary Version)

Copy: NRC Region I
Mr. A. J. Blamey, NRC Sr. Resident Inspector
Mr. R. V. Guzman, NRC Project Manager
Mr. R. R. Janati, DEP/BRP

ENCLOSURE 2

GE-SSES-AEP-314

NE-GE-0000-0061-059⁵~~4~~-NP-R0 – Non-Proprietary

Non-Proprietary Notice

This is a non-proprietary version of the Enclosure 1 of GE-SSES-AEP-314, which has the proprietary information removed. Portions of the document that have been removed are indicated by an open and closed bracket as shown here [[]].