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JUL 31 2009

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

SUSQUEHANNA STEAM ELECTRIC STATION
UNIT 2 OPERATING LICENSE NO. NPF-22
LICENSE CONDITION 2.C.(20)(a)3
PLA-6542 **Docket No 50-388**

Reference: 1) Letter, R. V. Guzman (NRC) to B. T. McKinney (PPL), "Susquehanna Steam Electric Station, Units 1 and 2 - Issuance of Amendment Regarding the 13-Percent Extended Power Uprate (TAC Nos. MD3309 and MD3310)," dated January 30, 2008.

The purpose of this letter is to docket the attached evaluation of steam dryer performance based on data collected during Susquehanna Steam Electric Station (SSES) Unit 2 power ascension up to 3733 MWth (107% CLTP), which is the interim plateau in achieving the full Extended Power Uprate (EPU) operating conditions. The testing was completed on June 15, 2009 and this letter is a followup to the electronic submittal of the SSES Replacement Steam Dryer and Flow Induced Vibration Report to the SSES NRC Project Manager on July 31, 2009. The information contained herein is provided in accordance with the requirements of SSES Unit 2 license condition 2.C.(20)(a)3, (Reference 1).

License Condition 2.C.(20)(a) 3 requires:

> "PPL shall hold the facility at each 3.5% ascension step to collect data from License Condition 2.C.(20)(a) and conduct plant inspections and walk-downs, and evaluate steam dryer performance based on the data; shall provide the evaluation to the NRC staff by facsimile or electronic transmission to the NRC project manager upon completion of the evaluation; and shall not increase power above each hold point until 96 hours after the NRC project manager confirms receipt of transmission."

Enclosure 1 contains the proprietary version of "SSES Replacement Steam Dryer and Flow Induced Vibration Report, Unit 2 Start-up, 107% Power Test Plateau." The information contained in Enclosure 1 satisfies this license condition for the 107% CLTP power ascension step. Based on an evaluation of the data collected, PPL concludes that the new Susquehanna dryer design possesses sufficient structural margin up to the full 3952 MWth EPU operating conditions (114% CLTP). The report also includes a

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summary of the results of main steam and feedwater piping and component monitoring and walkdowns.

The information in Enclosure 1 is proprietary as defined by 10CFR2.390. PPL, as the owner of the proprietary information, has executed the enclosed affidavit (Enclosure 3), which identifies that the enclosed proprietary information has been handled and classified as proprietary, is customarily held in confidence, and has been withheld from public disclosure. The proprietary information has been faithfully reproduced in the enclosed information such that the affidavit remains applicable. PPL hereby requests that the enclosed proprietary information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17.

The header of each page in Enclosure 1 carries the notation "PPL Proprietary Information." PPL proprietary information is identified inside triple brackets. {{{This sentence is an example.[2]}}} In each case, the superscript notation[2] refers to Paragraph (2) of the PPL affidavit, which provides the basis for the proprietary determination. Specific information that is not so marked is not PPL proprietary.

Enclosure 2 contains the non-proprietary version of "SSES Replacement Steam Dryer and Flow Induced Vibration Report, Unit 2 Start-up, 107% Power Test Plateau."

Enclosure 3 contains the signed affidavit.

If you have any questions or require additional information, please contact Mr. Duane L. Filchner at (610) 774-7819.

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

Executed on: 7-31-09

Richard D Pagodin for T. S. Rausch

T. S. Rausch

Enclosure 1 – Proprietary Version of "SSES Replacement Dryer and Flow Induced Vibration Report, Unit 2 Start-up, 107% Power Test Plateau"
Enclosure 2 – Non-Proprietary Version of "SSES Replacement Dryer and Flow Induced Vibration Report, Unit 2 Start-up, 107% Power Test Plateau"
Enclosure 3 - Affidavit

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