

January 30, 2008

Mr. Britt T. McKinney
Sr. Vice President
and Chief Nuclear Officer
PPL Susquehanna, LLC
769 Salem Boulevard, NUCSB3
Berwick, PA 18603-0467

SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 — ISSUANCE
OF AMENDMENT REGARDING THE 13-PERCENT EXTENDED POWER
UPRATE (TAC NOS. MD3309 AND MD3310)

Dear Mr. McKinney:

The U.S. Nuclear Regulatory Commission (NRC) has issued the enclosed Amendment No. 246 to Facility Operating License No. NPF-14 and Amendment No. 224 to Facility Operating License No. NPF-22 for the Susquehanna Steam Electric Station, Units 1 and 2 (SSES 1 and 2), in response to your application dated October 11, 2006, as supplemented by letters dated October 25 and December 4 and 26, 2006, and February 13, March 14 and 22, April 13, 17, 23, 26, and 27, May 3, 9, 14, and 21, June 1, 4, 8, 14, 20, and 27, July 6, 12, 13, 30, 31, and August 3, 13, 15, and 28, September 19, October 5, November 30, December 10, 2007, and January 9, 24, and 29, 2008.

The amendments increase the maximum authorized power level for SSES 1 and 2 from 3,489 megawatts thermal (MWt) to 3,952 MWt, which is an increase of approximately 13 percent. The NRC considers the requested increase in power level to be an extended power uprate (EPU). These amendments are necessary to implement the EPU and also revise the operating licenses and technical specifications for SSES 1 and 2.

The NRC has determined that the related safety evaluation (SE) contains proprietary information pursuant to Title 10 of the *Code of Federal Regulations*, Section 2.390, "Public Inspections, Exemptions, Requests for Withholding." Accordingly, the NRC staff also has prepared a redacted, publicly-available, non-proprietary version of the SE. Copies of the proprietary and non-proprietary versions of the SE are enclosed.

B. McKinney

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A Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

/ra/

Richard V. Guzman, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-387 and 50-388

Enclosures:

1. Amendment No. 246 to License No. NPF-14
2. Amendment No. 224 to License No. NPF-22
3. Non-proprietary SE (ML073610397)
4. Proprietary SE (ML073521156)

cc w/encls 1, 2, and 3 : See next page

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Richard V. Guzman, Senior Project Manager
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Accession Nos.:

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Cover letter: ML080020182

License: ML080020195; TS pages: ML080300472

Non-proprietary SE: ML073610397

Proprietary SE: ML: ML073521156

OFFICE	LPLI-1/PM	Tech Editor*	LPL1-1/LA	OGC
NAME	RGuzman	HChang	SLittle	LSubin
DATE	1/29/08	12/10/2007	1/2/08	1/29/08
OFFICE	LPL1-1/BC	DORL/D	NRR/D	
NAME	MKowal	CHaney	JDyer	
DATE	1/2/08	1/8/08	1/30/08	

* Per e-mail from G. Cranston

**Safety evaluation input provided by memos. No substantial changes made

OFFICE	EEEE/BC	EICB/BC	EMCB/BC	EQVB/BC	IHPB/BC(A)
NAME	GWilson	WKemper	KManoly	DThatcher	RPederson
DATE	6/27/07**	8/8/07**	8/24/07**	7/9/07**	6/29/07**
OFFICE	ITSB/BC	IOLB/BC	APLA/BC	AADB/BC	AFPB/BC
NAME	TKobetz	NSalgado	MRubin	MKotzalas	SWeerakkody
DATE	12/27/07	7/30/07**	7/13/07**	3/6/07**	3/20/07**
OFFICE	SBPB/BC	SCVB/BC	SRXB/BC	CVIB/BC	CSGB/BC
NAME	DHarrison	RDennig	GCranston	MMitchell	AHiser
DATE	8/28/07**	6/14/07**	12/17/07*	6/14/07**	7/30/07**
OFFICE	CPNB/BC	CPTB/BC			
NAME	TChan	JMchale			
DATE	6/13/07**, 7/9/07**	7/11/07**			

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SUBJECT: SUSQUEHANNA STEAM ELECTRIC STATION, UNITS 1 AND 2 - ISSUANCE OF AMENDMENT REGARDING THE 13-PERCENT EXTENDED POWER UPRATE (TAC NOS. MD3309 AND MD3310)

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Susquehanna Steam Electric Station, Unit Nos. 1 and 2

cc:

Cornelius J. Gannon
Vice President - Nuclear Operations
PPL Susquehanna, LLC
769 Salem Blvd., NUCSB3
Berwick, PA 18603-0467

Bryan A. Snapp, Esq
Assoc. General Counsel
PPL Services Corporation
Two North Ninth Street, GENTW3
Allentown, PA 18101-1179

Robert M. Paley
General Manager - Plant Support
PPL Susquehanna, LLC
769 Salem Blvd., NUCSB2
Berwick, PA 18603-0467

Supervisor - Document Control Services
PPL Susquehanna, LLC
Two North Ninth Street, GENPL4
Allentown, PA 18101-1179

Rocco R. Sgarro
Manager - Nuclear Regulatory Affairs
PPL Susquehanna, LLC
Two North Ninth Street, GENPL4
Allentown, PA 18101-1179

Richard W. Osborne
Allegheny Electric Cooperative, Inc.
212 Locust Street
P.O. Box 1266
Harrisburg, PA 17108-1266

Supervisor -
Nuclear Regulatory Affairs
PPL Susquehanna, LLC
769 Salem Blvd., NUCSA4
Berwick, PA 18603-0467

Director, Bureau of Radiation Protection
Pennsylvania Department of
Environmental Protection
Rachel Carson State Office Building
P.O. Box 8469
Harrisburg, PA 17105-8469

Michael H. Crowthers
Supervising Engineer
Nuclear Regulatory Affairs
PPL Susquehanna, LLC
Two North Ninth Street, GENPL4
Allentown, PA 18101-1179

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 35, NUCSA4
Berwick, PA 18603-0035

Ronald E. Smith
General Manager - Site Preparedness
and Services
PPL Susquehanna, LLC
769 Salem Blvd., NUCSA4
Berwick, PA 18603-0467

Regional Administrator, Region 1
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Manager - Quality Assurance
PPL Susquehanna, LLC
769 Salem Blvd., NUCSB2
Berwick, PA 18603-0467

Board of Supervisors
Salem Township
P.O. Box 405
Berwick, PA 18603-0035

Luis A. Ramos
Community Relations Manager,
Susquehanna
PPL Susquehanna, LLC
634 Salem Blvd., SSO
Berwick, PA 18603-0467

Dr. Judith Johnsrud
National Energy Committee
Sierra Club
443 Orlando Avenue
State College, PA 16803