

**BEFORE THE  
UNITED STATES NUCLEAR REGULATORY COMMISSION**

In the Matter of

Docket No. 50-388

PENNSYLVANIA POWER &  
LIGHT COMPANY

**PROPOSED AMENDMENT No. 117  
FACILITY OPERATING LICENSE NO. NPF-22  
SUSQUEHANNA STEAM ELECTRIC STATION  
UNIT NO. 2**

Licensee, Pennsylvania Power & Light Company, hereby files proposed Amendment No. 117 to its Facility Operating License No. NPF-22 dated March 23, 1984.

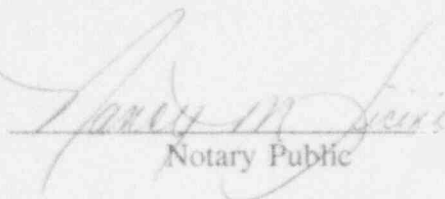
This amendment contains a revision to the Susquehanna SES Unit 2 Technical Specifications.

PENNSYLVANIA POWER & LIGHT COMPANY  
BY:



G. T. Jones  
Vice President - Nuclear Engineering

Sworn to and subscribed before me  
this 27 of November 1993.

  
Notary Public

NOTARIAL SEAL  
NANCY M. LIDINI, Notary Public  
Allentown, Lehigh County  
Commission Expires April 28, 1994

**TABLE 1**  
**TEST CONDITIONS AND TEST PLATEAUS**

TEST CONDITION	UPRATE POWER LEVEL <sup>2</sup>	CORE FLOW	TEST PLATEAU
A	< 90%	3	A
B	89 - 90%	3	A
C <sup>1</sup>	95 - 96%	3	B
D	97 - 98%	3	C
E	99 - 100%	3	D
N = This test is not required to be performed for power uprate			
<b>NOTES:</b> 1 - The old 100% power level (3293 MWt) is in this test condition at $\approx$ 95.7% power. 2 - 100% power level - 3441 MWt. 3 - Any flow within the safe operating region of the Power/Flow Map that will produce the required power level.			

**TABLE 2**  
**FSAR CHAPTER 14 TESTS**

TEST CATEGORIES	TEST CONDITIONS <sup>1</sup>					
	A	B	C	D	E	N
1 Chemical and Radiochemical			X		X	
2 Radiation Measurements			X		X	
3 Fuel Loading	X					
4 Full Core Shutdown Margin	X					
5 Control Rod Drive	X					
6 SRM/Cont Rod Seq	O					X
7 Reactor Water Cleanup						X
8 Residual Heat Removal						X
9 Water Level Measurements						X
10 SRM/IRM/Cont Rod Seq	O					X
11 LPRM Calibration	X		X		X	
12 APRM Calibration	X	X	X	X	X	
13 Process Computer						X
14 RCIC	X				X	
15 HPCI	X				X	
16 Selected Process Temperatures						X
17 System Expansion						X
18 TIP Uncertainty					X	
19 Core Performance		X	X	X	X	
20 Steam Production						X
21 Core Power-Void Mode Response						X
22 Pressure Regulator		X	X	X	X	

TEST CATEGORIES	TEST CONDITIONS <sup>1</sup>					
	A	B	C	D	E	N
23 Feedwater	X	X	X	X	X	
24 Turbine Valve Surveillance		X	X	X	X	
25 Main Steam Isolation Valves	X					
26 Relief Valves						X
27 TSV Trip & Gen Load Rejection						X
28 Shutdown From Outside CR						X
29 Recirculation Flow Control					X	
30 Recirculation System						X
31 Loss of T-G & Offsite Power						X
32 Cont Atm & Steam Tunnel Cooling			X		X	
33 Piping Steady State Vibration						X
34 Rod Sequence Exchange						X
35 Recirc System Flow Calibration					X	
36 Cooling Water Systems						X
37 Gaseous Radwaste					X	
39 Piping Vib During Dynamic Trans						X

NOTES: Tests 38 and 40 were merged into Tests 17 and 33 in the original startup test program.

<sup>1</sup> Refer to Table 1 for definition of Test Conditions.

X Indicates test is to be performed in indicated test condition with the exception that an X on column N indicates this test is not a required test for power uprate.

O Indicates that test is performed during each startup following a refueling outage.

**TABLE 3**  
**ADDITIONAL TESTING REQUIRED BY LICENSE AMENDMENT**

TEST CATEGORIES		TEST CONDITIONS <sup>1</sup>					
		A	B	C	D	E	N
42	I&C Surveillances <sup>2</sup>	X					
43	Steady State Data Collection		X	X	X	X	

**TABLE 4**  
**TECHNICAL SPECIFICATION SETPOINT CHANGE**

TEST CATEGORIES		TEST CONDITIONS <sup>1</sup>					
		A	B	C	D	E	N
45	Main Steam Line High Flow					X	
46	Main Steam Line High Tunnel Temp					X	
47	Recirc Single Loop Operation	X					

**TABLE 5**  
**FULL POWER SETPOINT ADJUSTMENTS**

TEST CATEGORIES		TEST CONDITIONS <sup>1</sup>					
		A	B	C	D	E	N
48	Loose Parts Monitor			X		X	
49	Main Steam Line Rad Monitor			X		X	
50	Core Spray Leak Detection			X		X	

**TABLE 6**  
**POWER UPRATE PERFORMANCE TESTS**

TEST CATEGORIES		TEST CONDITIONS <sup>1</sup>					
		A	B	C	D	E	N
60	Performance Test					X	

NOTES: Test Numbers do not correspond to any Chapter 14 Tests and are not sequential.

<sup>1</sup> Refer to Table 1 for definition of Test Conditions.

<sup>2</sup> Prior to the plant condition for which they are required to be operable.

TABLE 7

## SUMMARY OF SUSQUEHANNA POWER-UPRATE ATWS RESULTS

TRANSIENT	PEAK RPV PRESSURE (PSIG)	PEAK SUPPRESSION POOL TEMP. (°F)	PEAK CLADDING TEMPERATURE (°F)
MSIV Closure	1317	178.9	1463
Pressure Regulator Failure - Maximum Demand	1283	178.4	1458
Inadvertent Open Relief Valve	1069*	147.4	
Loss of Feedwater	1069*	90.0*	
Feedwater Controller Failure-Maximum Demand	1232	98.1	1299
Turbine Trip	1217	114.1	
Loss of Normal AC Power	1234	161.7	
* No increase.			