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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388

AUTH. NAME: CURTIS, N.W.
 AUTHOR AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A.
 RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Submits response to request for addl info re Amend 54 to OL application. FSAR section changes & justifications listed. Amend to License NPF-14 will be submitted to incorporate changes.

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Policy No.	Policyholder Name	Policy Type	Effective Date	Expiration Date	Annual Premium	Current Premium	Policy Status
101234	John Doe	Life Insurance	01/01/2020	01/01/2030	\$10,000	\$10,000	Active
201234	Jane Smith	Life Insurance	02/01/2021	02/01/2031	\$15,000	\$15,000	Active
301234	Robert Johnson	Life Insurance	03/01/2022	03/01/2032	\$20,000	\$20,000	Active
401234	Mary White	Life Insurance	04/01/2023	04/01/2033	\$25,000	\$25,000	Active
501234	Michael Brown	Life Insurance	05/01/2024	05/01/2034	\$30,000	\$30,000	Active
601234	Sarah Green	Life Insurance	06/01/2025	06/01/2035	\$35,000	\$35,000	Active
701234	David Black	Life Insurance	07/01/2026	07/01/2036	\$40,000	\$40,000	Active
801234	Lisa Gray	Life Insurance	08/01/2027	08/01/2037	\$45,000	\$45,000	Active
901234	James Blue	Life Insurance	09/01/2028	09/01/2038	\$50,000	\$50,000	Active
1001234	Emily Yellow	Life Insurance	10/01/2029	10/01/2039	\$55,000	\$55,000	Active
1101234	Christopher Purple	Life Insurance	11/01/2030	11/01/2040	\$60,000	\$60,000	Active
1201234	Amanda Pink	Life Insurance	12/01/2031	12/01/2041	\$65,000	\$65,000	Active
1301234	Matthew Red	Life Insurance	01/01/2032	01/01/2042	\$70,000	\$70,000	Active
1401234	Olivia Orange	Life Insurance	02/01/2033	02/01/2043	\$75,000	\$75,000	Active
1501234	Benjamin Green	Life Insurance	03/01/2034	03/01/2044	\$80,000	\$80,000	Active
1601234	Sophia Blue	Life Insurance	04/01/2035	04/01/2045	\$85,000	\$85,000	Active
1701234	Lucas Yellow	Life Insurance	05/01/2036	05/01/2046	\$90,000	\$90,000	Active
1801234	Isabella Purple	Life Insurance	06/01/2037	06/01/2047	\$95,000	\$95,000	Active
1901234	Ethan Pink	Life Insurance	07/01/2038	07/01/2048	\$100,000	\$100,000	Active
2001234	Aria Red	Life Insurance	08/01/2039	08/01/2049	\$105,000	\$105,000	Active
2101234	Noah Orange	Life Insurance	09/01/2040	09/01/2050	\$110,000	\$110,000	Active
2201234	Charlotte Green	Life Insurance	10/01/2041	10/01/2051	\$115,000	\$115,000	Active
2301234	Liam Blue	Life Insurance	11/01/2042	11/01/2052	\$120,000	\$120,000	Active
2401234	Zoe Yellow	Life Insurance	12/01/2043	12/01/2053	\$125,000	\$125,000	Active
2501234	Oliver Purple	Life Insurance	01/01/2044	01/01/2054	\$130,000	\$130,000	Active
2601234	Isabella Pink	Life Insurance	02/01/2045	02/01/2055	\$135,000	\$135,000	Active
2701234	Ethan Red	Life Insurance	03/01/2046	03/01/2056	\$140,000	\$140,000	Active
2801234	Sophia Orange	Life Insurance	04/01/2047	04/01/2057	\$145,000	\$145,000	Active
2901234	Lucas Green	Life Insurance	05/01/2048	05/01/2058	\$150,000	\$150,000	Active
3001234	Aria Blue	Life Insurance	06/01/2049	06/01/2059	\$155,000	\$155,000	Active
3101234	Noah Yellow	Life Insurance	07/01/2050	07/01/2060	\$160,000	\$160,000	Active
3201234	Charlotte Purple	Life Insurance	08/01/2051	08/01/2061	\$165,000	\$165,000	Active
3301234	Liam Pink	Life Insurance	09/01/2052	09/01/2062	\$170,000	\$170,000	Active
3401234	Zoe Red	Life Insurance	10/01/2053	10/01/2063	\$175,000	\$175,000	Active
3501234	Oliver Orange	Life Insurance	11/01/2054	11/01/2064	\$180,000	\$180,000	Active
3601234	Isabella Green	Life Insurance	12/01/2055	12/01/2065	\$185,000	\$185,000	Active
3701234	Ethan Blue	Life Insurance	01/01/2056	01/01/2066	\$190,000	\$190,000	Active
3801234	Sophia Yellow	Life Insurance	02/01/2057	02/01/2067	\$195,000	\$195,000	Active
3901234	Lucas Purple	Life Insurance	03/01/2058	03/01/2068	\$200,000	\$200,000	Active
4001234	Aria Pink	Life Insurance	04/01/2059	04/01/2069	\$205,000	\$205,000	Active
4101234	Noah Red	Life Insurance	05/01/2060	05/01/2070	\$210,000	\$210,000	Active
4201234	Charlotte Orange	Life Insurance	06/01/2061	06/01/2071	\$215,000	\$215,000	Active
4301234	Liam Green	Life Insurance	07/01/2062	07/01/2072	\$220,000	\$220,000	Active
4401234	Zoe Blue	Life Insurance	08/01/2063	08/01/2073	\$225,000	\$225,000	Active
4501234	Oliver Yellow	Life Insurance	09/01/2064	09/01/2074	\$230,000	\$230,000	Active
4601234	Isabella Purple	Life Insurance	10/01/2065	10/01/2075	\$235,000	\$235,000	Active
4701234	Ethan Pink	Life Insurance	11/01/2066	11/01/2076	\$240,000	\$240,000	Active
4801234	Sophia Red	Life Insurance	12/01/2067	12/01/2077	\$245,000	\$245,000	Active
4901234	Lucas Orange	Life Insurance	01/01/2068	01/01/2078	\$250,000	\$250,000	Active
5001234	Aria Green	Life Insurance	02/01/2069	02/01/2079	\$255,000	\$255,000	Active



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

DEC 07 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO REQUEST FOR ADDITIONAL
INFORMATION ON AMENDMENT NO. 54
ER 100450 FILE 841-1
PLA-1975

Docket Nos. 50-387
50-388

Dear Mr. Schwencer:

This letter is provided at the request of your staff for the purpose of clarifying our PLA-1648, dated May 5, 1983, which transmitted Amendment No. 54 to the operating license application. Below find a listing of each FSAR section change and associated justification.

Section 3.7b and
Figures 3.7b-6 thru
3.7b-51

This section was revised to reflect modifications made to the structural dynamic models of the reactor and control buildings. These changes have been incorporated into the Susquehanna Steam Electric Station Design Assessment Report (DAR) in Revision 8, transmitted to you in PLA-1562 dated March 7, 1983. These changes were discussed with the NRC staff prior to inclusion in the DAR.

Section 5.2.5.1

Administrative change made to revise the description of the leakage detection methodology.

Section 5.2.5.1.2.2

Administrative change. The drywell floor drain sump pumps are not submerged as previously described.

Sections 5.2.5.1.2.4.4
5.2.5.1.2.4.5

Administrative change. The drywell equipment drain tank has a depth of 42 inches and a capacity of 1000 gallons. Due to pump location, the tank has a useful capacity of 842 gallons and a useful depth of 36 inches. Instrument zero is located six inches above the bottom of the tank.

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The capacity of the drywell drain sump has been reduced from 300 gallons to 150 gallons to facilitate more accurate measurement of level in accordance with the instrumentation sensitivity requirements of Regulatory Guide 1.45.

- Section 5.2.5.1.2.4.6 Administrative change deleting the reference to the drywell equipment drain tank cooling coil. The cooling coil has been disconnected. The purpose of the coil was to cool drainage to prevent damage to the equipment drain tank pumps which have been removed.
- Section 5.2.5.3.2 Administrative change to correct typographical error (spelling).
- Section 6.2.4.3.3.1 Revised the discussion of the containment purge system to reflect the addition of debris screens on the drywell inlet and outlet purge lines. This change was made in response to Susquehanna SES SER Section 6.2.4.3 requirement. These debris screens will be installed prior to startup following the first refueling outage on Unit 1 and prior to fuel load on Unit 2.
- Sect. 7.6.1a.4.3.9.2.1 This section previously described the HPCI isolation valves going closed immediately following the activation (depression) of the HPCI Isolation Switch or immediately following the trip of the high ambient or differential temperature from the HPCI area. A time delay relay has been installed which delays closure of the HPCI isolation valves for one second following initiation from high ambient or differential temperature in the HPCI area or from the ambient or differential temperature in the tunnel. This modification was made to eliminate false isolation signals produced every time the temperature switches are energized.
- Sections 11.3.2.1.1
11.3.2.2.2
11.3.2.2.3
11.3.2.2.4
11.3.2.2.8
11.3.2.3.4
Table 11.3-5, 11.3-6
- Section 11.3.2.2.7 These changes reflect the removal of the inlet HEPA filters for the Offgas Treatment System. A safety evaluation (830082) was performed to evaluate this change.
- Section 11.3.2.2.7 Continuous monitoring of the offgas stream exiting the outlet HEPA filter has been discontinued. This location can be monitored for radioactivity if high levels are suspected. Continuous monitoring of the



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offgas stream takes place in the turbine building exhaust duct thus satisfying the requirements of Regulatory Guide 1.21 for continuous monitoring of gaseous effluents.

Section 11.3.2.2.8

The offgas pretreatment sampling system suction point was relocated downstream of the motive steam jet condenser for the offgas recombiner system. The previous location at the SJAE condenser is under greater than 20 inches mercury vacuum. Consequently the differential pressure between the L.P. condenser and the SJAE condenser was inadequate to provide rated flow through the sampling system. This change does not affect safe operation of this system.

Section 17.2

Administrative changes to delete reference to the Manager-Nuclear Fuels. This change reflects a corporate management reorganization in which the responsibility for management of engineering activities related to nuclear fuels became part of the responsibilities of the Manager of Nuclear Plant Engineering (NPE).

Question 281.13

Administrative change to include the results of testing and reasoning to conclude that further periodic testing is unnecessary.

Question 032.53

Administrative change to add clarification. Although the methodology used to perform periodic response time tests of the RPS is consistent with IEEE 338-1977 and Regulatory Guide 1.118-1978, the guidelines are not design bases for this plant.

Figures 6.7-3, 7.2-1,
7.3-7, 7.3-8, 7.3-9,
7.3-10, 7.3-11, 7.4-2,
7.4-4, 7.6-4, 7.6-7,
7.7-2, 7.7-7, 7.7-9,
and 7.7-11

These drawings were revised to reflect design changes and effects of safety evaluations. These drawings are updated periodically after a number of drawing changes are issued against each drawing. They are not updated after each design change or safety evaluation. The text of the FSAR is revised prior to drawings being revised and the updated drawings are subsequently submitted. These drawings are controlled under our design control process.

These changes to the FSAR reflect 1) changes which are administrative in nature (i.e. typographical, management changes and clarifications, etc.), 2) changes as a result of safety evaluations, and 3) changes which were previously discussed with the staff.



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Under separate cover, we will propose a change to Operating License No. NPF-14 to include this amendment.

If you have any questions, please contact us.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction-Nuclear

cc: R. L. Perch NRC