

BEFORE THE
UNITED STATES NUCLEAR REGULATORY COMMISSION


In the Matter of :
PENNSYLVANIA POWER & : Docket No. 50-387
LIGHT COMPANY :

PROPOSED AMENDMENT NO. 105
FACILITY OPERATING LICENSE NO. NPF-14
SUSQUEHANNA STEAM ELECTRIC STATION
UNIT NO. 1

Licensee, Pennsylvania Power & Light Company, hereby files proposed Amendment No. 105 to its Facility Operating License No. NPF-14 dated July 17, 1982.

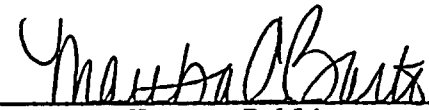
This amendment contains a revision to the Susquehanna SES Unit 1 Technical Specifications.

PENNSYLVANIA POWER & LIGHT COMPANY
BY:



H. W. Keiser
Vice President - Nuclear Operations

Sworn to and subscribed before me
this 15th of December, 1987.



Notary Public
MARTHA C. BARTO, NOTARY PUBLIC
ALLENTOWN, LEHIGH COUNTY
MY COMMISSION EXPIRES JAN. 15, 1990
Member, Pennsylvania Association of Notaries

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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 350
LECTURE 10

LECTURE 10: QUANTUM MECHANICS
OF PARTICLES

1. The wave function $\psi(x)$ is a complex-valued function of position x . It is normalized so that the total probability of finding the particle somewhere is 1.

2. The probability density is given by $|\psi(x)|^2$. The probability of finding the particle between x_1 and x_2 is $\int_{x_1}^{x_2} |\psi(x)|^2 dx$.

3. The expectation value of position is $\langle x \rangle = \int x |\psi(x)|^2 dx$.

4. The expectation value of momentum is $\langle p \rangle = \int \psi^* (-i\hbar \frac{d}{dx}) \psi dx$.

5. The uncertainty principle states that $\Delta x \Delta p \geq \frac{\hbar}{2}$.

