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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of	)	
	)	
Philadelphia Electric Company	)	Docket Nos. 50-352
	)	50-353
(Limerick Generating Station,	)	
Units 1 and 2)	)	

SUPPLEMENTAL AFFIDAVIT OF MAYNARD E. SMITH  
IN SUPPORT OF A MOTION FOR  
SUMMARY DISPOSITION REGARDING CONTENTION V-4

Maynard E. Smith, being duly sworn according to law, deposes and says:

1. My name is Maynard E. Smith. A statement of my responsibilities and qualifications with regard to the captioned matter is contained in my affidavit dated September 22, 1983, submitted in support of Applicant's Motion for Summary Disposition Regarding Contention V-4 (September 27, 1983).

2. The affidavit prepared by Mr. Seymour and myself contains a number of references. The critical portions of these documents are either reproduced or specifically referenced in the affidavit. These references and their use in the September 22, 1983 affidavit are as follows:

1503

ReferenceUse in Affidavit

Gardner & Moon (1970)	p. 9, ¶18, Fig.5
Johns Hopkins Univ. (1977)	pp. 8, 9, ¶17, Fig. 4
Johns Hopkins Univ. (1976)	p. 15, ¶34
Kramer & Seymour (1975)	pp. 6, 7, ¶¶ 10, 11, 12
Kramer & Seymour (1976)	pp. 6, 7, ¶¶ 10, 11, 12
Speiser et al. (1979)	pp. 6, 7, ¶10, Fig. 3
Thomson et al. (1981)	p. 5, ¶8
Amer. Elec. Power Svce. Corp. (1974)	p. 14, ¶31, Fig. 7
Hanna & Gifford (1975)	p. 15, ¶34
Hosler (1974)	p. 15, ¶34

While other portions of these references were not specifically utilized and cited, they support and assist in an understanding of the cited portions.

3. Several sections of the Limerick Generating Station FSAR and EROL documents were utilized in the September 22, 1983 affidavit. Section 5.1.4 of the EROL contained our conclusion that there would be no significant effects on local airports (page 5.1-21). This conclusion was based in part on Sections 5.1.4.1.3 and 5.1.4.3.3.2, in which our analysis of cooling tower plume heights and dimensions was presented.

4. The following sections of the FSAR and EROL provided more general background on meteorology and cooling tower effects, which formed the basis of our understanding of the Limerick site meteorology, but did not contribute directly to any specific portions of the September 22, 1983 affidavit:

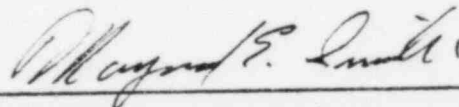
FSAR

Section 2.3.1  
Section 2.3.2  
Section 2.3.3  
Section 2.3.4  
Section 2.3.5

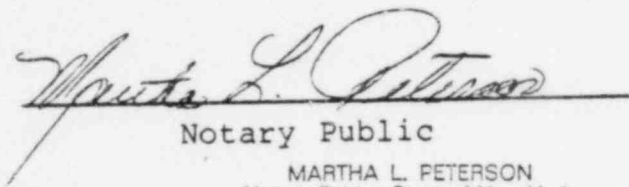
EROL

Section 5.2.2  
Section 2.3.1  
Section 2.3.2

5. As stated at paragraph two of my affidavit of September 22, 1983, all of the sections noted above were prepared under my supervision and to the best of my knowledge, information and belief, they are true and correct.



Maynard E. Smith



Notary Public

MARTHA L. PETERSON  
Notary Public, State of New York  
No. 01PE-4713404  
Qualified in Suffolk County  
Commission Expires March 30, 1984