

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
	)	
COMMONWEALTH EDISON COMPANY	)	Docket Nos. 50-456
	)	50-457
(Braidwood Nuclear Power Station,	)	
Units 1 and 2)	)	

AFFIDAVIT OF JANICE A. STEVENS IN SUPPORT OF  
STAFF RESPONSE TO MOTION OF COMMONWEALTH EDISON  
COMPANY FOR SUMMARY DISPOSITION OF NEINER CONTENTION 1

I, Janice A. Stevens, being duly sworn, depose and state as follows:

1. I am the Licensing Project Manager for Braidwood Station, Units 1 and 2, Licensing Branch 1, Division of Licensing, Office of Nuclear Reactor Regulation. I have personal knowledge of the matters set forth herein and believe them to be true and correct to the best of my knowledge, information and belief. A copy of my professional qualifications is attached.
2. I give this affidavit in response to the "Motion of Commonwealth Edison Company for Summary Disposition On Pleadings" dated June 11, 1985. The Motion seeks, in part, summary disposition of Intervenor Bob Neiner Farms, Inc. Contention 1. Contention 1 states as follows:

Contention 1

Intervenors contend that the 765 kV transmission lines that will be used to transport the electrical output from the Braidwood Station create an unacceptable, hazardous and dangerous condition to persons living or working on a daily

basis within 600 feet from the closest line, and that the 765 kV transmission lines should not be placed closer than 600 feet from any structure or area in which people can be expected to be present six or more hours per day. The hazardous and dangerous conditions include: audible noise impairing hearing, increasing tension, interfering with sleep, interfering with speech; interference with the operation of cardiac pacemakers; biological effects on humans because of exposure to electric fields excluding the use of nearby areas for working, living or recreation, and the danger of shock to persons and animals.

The basis for this contention is that Commonwealth Edison testified before the Illinois Commerce Commission that as of March 3, 1978, approximately 60% of all transmission right-of-way acquisitions included right-of-way for 345 kV and 765 kV transmission lines. Opinion No. 78-13, involving Case No. 26529, issued by the Public Service Commission of New York discusses the hazards associated with 765 kV lines.

3. I have read the "Motion of Commonwealth Edison Company for Summary Disposition on Pleadings" dated June 11, 1985, Material Facts As to Which There is no Genuine Issue to Be Heard, regarding Neiner Contention 1 and the Affidavits of Alfred H. Getty dated June 12, 1985 and David H. Smith dated June 13, 1985.
4. I have identified and read Section 3.9 Transmission Facilities, Section 6.1 Applicant's Preoperational Monitoring Programs, and Amendment 2 of the Braidwood Station, Units 1 and 2 Environmental Report - Operating License Stage (ER-OL) which contained references to the location, description and environmental effects of a 765 kV transmission line and corresponding right-of-way.

5. I have read and hereby verify the June 10, 1985 submission of Amendment 7 to the Braidwood ER-OL. ER-OL items amended by Amendment 7 under Section 3.9 Transmission Facilities, Section 6.1 Applicant's Preoperational Monitoring Programs, and Amendment 2 include: Section 3.9.1 Location and Description of Right-of-Way; Section 3.9.2 Line Design Parameters; Section 3.9.3 Existing Substations Affected; Section 3.9.4 Radiated Electrical and Acoustical Noise; Section 3.9.6 Electrostatic Field Effects; Figure 3.9-2 Route Map and Structure Profile, Braidwood-Crete R.O.W.; Figure 6.1-7 Radiological Monitoring Sampling Locations; and a revised response to QE100.1. The effect of this Amendment is to remove details of future uses of portions of ROW's that are not needed for construction of transmission lines to transmit power from Braidwood Station, Units 1 and 2.
6. In conclusion, Amendment 7 to the Braidwood ER-OL deletes the proposed 765 kV transmission line associated with the operation of Braidwood Station, Units 1 and 2 from the ER-OL portion of the Braidwood application. Accordingly, the 765 kV transmission line will not be further considered in Staff evaluation of environmental impacts of the proposed action.

Janice A. Stevens  
Janice A. Stevens

Subscribed and sworn to before  
me this 11th day of July, 1985

Melinda J. McDonald  
Notary Public

My commission expires: 7/1/86

JANICE A. STEVENS  
12225 Thoroughbred Road  
Herndon, Virginia 22071

Birthdate: February 1, 1953  
Birthplace: Washington, D. C.  
Marital Status: Married

#### EDUCATION

University of Tennessee  
College of Engineering  
Knoxville, Tennessee

- M. S. in Engineering Mechanics, 1980  
Completed coursework and passed qualifying examination for doctoral program in Engineering Mechanics. Major area of concentration was heat transfer and fluid dynamics. Participated in the Society of Women Engineers (Career Guidance Chairperson).

University of Virginia  
School of Engineering and Applied Science  
Charlottesville, Virginia

- B. S. with Distinction in Nuclear Engineering, 1975
- B. S. with Distinction in Applied Mathematics, 1975  
Participated in Trigon Engineering Society, Engineering Council, and American Nuclear Society. Dean's List.

#### WORK EXPERIENCE

U. S. Nuclear Regulatory Commission (NRC)  
Washington, D. C.  
June 1982 - Present

##### Project Manager/Division of Licensing:

Manage and participate in the review and evaluation of safety and environmental considerations associated with the design and operation of an assigned nuclear power facility; prepare documents required to support licensing, such as Safety Evaluation Reports and Environmental Impact Statements. Service as the principal NRC point of contact for the assigned facility; control information flow between NRC and the utility, public, Congress, other government agencies, and media. Resolve inconsistencies and differences of opinion between NRC and the utility.

Oak Ridge National Laboratory (ORNL)  
Oak Ridge, Tennessee  
September 1975 - June 1982

##### Technical Assistant to Director of NRC Programs/Central Management:

Monitored all ORNL programs funded by the NRC: prepared and presented program status reports; served as interface between ORNL and NRC management; and assisted in establishing long-range goals and objectives for existing programs as well as developing new initiatives for future ORNL participation.

##### Development Associate/Nuclear Division:

Analyzed experiments and developed phenomenological models related to nuclear safety. Developed test programs and participated in long-range planning activities concerning both fossil energy and gas centrifuge technologies.