#### May 8, 1985

BELATED CORRESPONDENCE

### UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

# BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

'85 MAY 10 A9:53

DOCKETED

In the Matter of

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COMMONWEALTH EDISON COMPANY

Docket Nos. 50-456 CALTING & SERVICE 50-457 BRANCH

(Braidwood Nuclear Power Station, Units 1 and 2)

## NRC STAFF INTERROGATORIES AND REQUEST FOR DOCUMENTS TO COMMONWEALTH EDISON COMPANY

The NRC staff hereby requests that the Applicant, Commonwealth Edison Company, pursuant to 10 C.F.R. §§ 2.740 and 2.741 and the presiding Licensing Board's "Order Beginning Discovery" (March 4, 1985), answer separately and fully, in writing under eath or affirmation by May 20, 1985, the following interrogatories and produce or make available for inspection and copying, all documentary material and responses to the interrogatories below. Each answer shall include all pertinent information available to the Applicant, its respective officers, directors, members, employees, advisors or consultants. If the answer to any Interrogatory is based upon a calculation, describe (a) the calculation, (b) identify any documents setting forth such calculation, (c) identify the person who performed each calculation, (d) when it was performed, (e) each parameter used in such calculation, each value assigned to the parameters, and the source of your data, (f) the results of each calculation, and (g) how each calculation provides basis for the answers. To the extent that copies of the documentary material cannot or will not be

provided to the NRC staff, access for inspection and copying should be provided at a mutually agreeable time and place. For all references requested in these interrogatories, identify them by author, title, date of publication and publisher if the reference is published, and if it is not published identify the document by the author, title, the date it was written, the qualifications of the author relevant to this proceeding, and where a copy of the document may be obtained.

If Applicant considers any document called for in this request to be privileged from production, Applicant must include in its response to its request a list of documents withheld from production, identifying each document by date, addresse(s), author, title and subject matter. In addition, Applicant should identify those persons who have seen the document or who were sent copies, and state the ground(s) upon which each such document is considered privileged.

State the name, address, occupation, employer and title of each person or persons answering each Interrogatory and identify the portions of each Interrogatory such person has answered.

The Interrogatories set forth below are to be considered Applicant's continuing obligation in accordance with 10 C.F.R. § 2.740(e). Accordingly, if, after Applicant has answered these interrogatories, additional information comes to its attention with respect to one or more of the answers, concerning identity of witnesses of corrections of any of the answers, the answers should be amended in a timely manner to provide such additional information.

- 2 -

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- Provide the following information for the proposed 765 kV transmission line:
  - A. Normal range of generating voltage.
  - B. Normal range of current flow.
  - C. Expected peak current flow (include the definition of peak flow, for example, a value exceeded less than 5% of the time).
  - D. Vertical clearance for conductors.
  - E. Electric and magnetic field strengths anticipated at the edge of the common corridor for the 345 and 765 kV lines with:
    - 1) only the 345 kV line operating
    - 2) only the 765 kV line operating
    - 3) both the 345 kV and 765 kV lines operating
  - F. Location and distance of nearest residence relative to:
    - 1) 345 kV line
    - 2) 765 kV line
  - G. Provide a graph showing average electric and magnetic field strengths plotted against distance from the center line at the

16

2. A.1. Are there any 765 kV lines in service in Illinois?

A.2. If so, provide the following information for each line:

- 1) Location
- 2) Length of line
- 3) When service initiated
- 4) What is the minimum horizontal distance from the centerline to the edge of the right-of-way?
- A.3. Does Commonwealth Edison Company operate, maintain or have rights in any of these lines?
- B.1. Have any studies been conducted to examine electrical field effects?
- B.2. Provide references of studies.
- C.1. Has Commonwealth Edison Company conducted any studies of electric field or magnetic field effects in anticipation of constructing 765 kV lines?
- C.2. If so, provide copies of these reports.

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- D. What design considerations were used in establishing the corridor width for the 765 kV transmission line?
- A. Provide a map showing transmission line corridors relative to properties and buildings owned or used by the intervenors.
  - B. Indicate locations of residences on adjacent properties.
  - C. Show boundaries of rights-of-way and placement of lines relative to edges of the rights-of-way.
- A. Provide information concerning the status of permits and approvals needed to construct and operate both the 345 and 765 kV lines.
  - B. List and describe showings which must be made to obtain approvals for both lines.
- 5. What procedures will be used to obtain any remaining rights-of-way for the 345 and 765 kV lines?
- 6. A. What transmission lines must be in place to operate the Braidwood Station at full power? How much power will each of those necessary transmission lines carry:

- 1) expressed as a percent of Braidwood Station output and,
- 2) expressed as a percent of carrying capacity of each line.

7.

Why is the 765 kV line needed?

Submitted by,

Elaine D. Chan

Elaine I. Chan Counsel for NRC Staff

Dated in Bethesda, Maryland this 8th day of May, 1985

## 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

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OFFICE OF SECRETARY DOCKETING & SERVICE BRANCH

(Braidwood Nuclear Power Station, Units 1 and 2)

#### CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF INTERROGATORIES AND REQUEST FOR DOCUMENTS TO COMMONWEALTH EDISON COMPANY" in the abovecaptioned proceeding have been served on the following by deposit in the United States mail, first class, or as indicated by an asterisk, through deposit in the Nuclear Regulatory Commission's internal mail system, this 8th day of May, 1985:

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