

RELATED CORRESPONDENCE

August 8, 1984

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USNRC

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

In the Matter of )  
)  
CAROLINA POWER & LIGHT COMPANY )  
AND NORTH CAROLINA EASTERN )  
MUNICIPAL POWER AGENCY )  
)  
(Shearon Harris Nuclear Power Plant, )  
Unit 1) )

Docket No. 50-400 OL

APPLICANTS' SUPPLEMENTAL ANSWER TO  
EDDLEMAN INTERROGATORY NO. 57-C-10-3(a) THROUGH (d)

By agreement with Intervenor Wells Eddleman, Applicants are supplementing "Applicants' Response to Wells Eddleman's General Interrogatories to Applicants (Ninth Set)," dated July 25, 1984. Accordingly, Applicants' Answer to Interrogatory No. 57-C-10-3(a) through (d) is revised as follows:

INTERROGATORY NO. 57-C-10-3(a): Please identify all documents, methodologies, data, equations, calculations or other information you have used, or plan to use, in calculating or determining sheltering effectiveness for structures within the Harris EPZ.

(b) Please identify all documents containing such information.

(c) Please identify all documents you possess which describe methods of figuring, calculating, or assessing sheltering effectiveness.

(d) Please state why you have adopted or used any methods, data or calculations of sheltering effectiveness which you have used with respect to structures near Harris or in its EPZ.

ANSWER: (a) - (c): The following documents, copies of which will be produced for review and copying upon request, contain information relating to these interrogatories:

- (1) "Public Protection Strategies for Potential Nuclear Reactor

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Accidents: Sheltering Concepts With Existing Public and Private Structures"  
(SAND 77-1725).

(2) "Protective Action Evaluation Parts I and II, The Effectiveness of Sheltering as A Protective Action Against Nuclear Accidents Involving Gaseous Releases" (EPA 520/1-78-001 A and B).

(3) "Effects of Man's Residence Inside Building Structures on Radiation Doses from Routine Releases of Radionuclides to the Atmosphere"  
(ORNL/TM-6526).

In addition, the documents provided in response to Interrogatory No. 57-C-10-4 contain information on sheltering effectiveness.

(d) Methods, calculations and data contained in the first two reports listed in answer (a) - (c) above are referenced in accordance with NUREG-0654 (at 64) which provides that they may be considered in determining the protection afforded in residential units and other shelters. The data and calculations contained in ORNL/TM-6526 are referenced because they provide additional information on sheltering effectiveness of structures.

With respect to the shelter surveys discussed in response to Interrogatory No. 57-C-10-4, the methodology used to determine sheltering effectiveness of the structures surveyed was in conformity with Federal Emergency Management Agency guidance contained in "National Shelter Survey Instructions," TR-84 and "Mass Thickness Manual for Walls, Floors and Roof," Sept. 1980 and Jan. 1984, TR-68. Copies of these documents will be made available for review and copying upon request. The data collected on a shelter's location, intended use, adequacy of radiation shielding and other characteristics of the structure are used for civil defense purposes and are intended to provide emergency planners with a data base in planning for a wartime nuclear emergency.

Dated: August 8, 1984.

Submitted by:

*Dale E. Hollar*

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Applicants were not able to attach hereto the Affidavit of B. J. Furr, Vice President - Operations Training and Technical Services of Carolina Power & Light Company, because he was out of the office and unavailable due to other conflicts. When the Affidavit is secured, it will be forwarded in a timely manner to the parties for attachment to "Applicants' Supplemental Answer to Eddleman Interrogatory No. 57-C-10-3(a) through (d)."

This 8th day of August 1984.

*Dale E. Hollar*

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CERTIFICATE OF SERVICE

I hereby certify that copies of "Applicants' Supplemental Answer to Eddleman Interrogatory No. 57-C-10-3(a) through (d)" were served this 8th day of August, 1984 by deposit in the United States mail, first class, postage prepaid, to the parties on the attached Service List.

*Dale E. Hollar*

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Dated: August 8, 1984

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