

August 7, 1981

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:

SOUTH CAROLINA ELECTRIC AND
GAS COMPANY, et al.

(Virgil C. Summer Nuclear
Station, Unit 1)

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Docket No. 50-395-OL

APPLICANTS' MEMORANDUM ON CONSIDERATION
OF ACCIDENTS IN EMERGENCY PLANNING

The consideration of Class 9 accidents and WASH 1400 accident consequence scenarios by the Commission may be traced briefly as follows. The Commission's notice adopting its final amended rule on emergency planning (45 Fed. Reg. 55402, August 19, 1980) stated:

"Predetermined protective actions are needed for the EPZs These distances are considered large enough to provide a response base that would support activity outside the planning zone should this ever be needed." (45 Fed. Reg. at 55406)

The Commission cited, as "the regulatory basis" for the adoption of the ten and fifty mile EPZs, the policy endorsed by the Commission in a policy statement published on October 23, 1979.

That policy statement (44 Fed. Reg. 61123, October 23, 1979) concurred in and endorsed NUREG-0396, saying:

"In endorsing this guidance, the Commission recognizes that it is appropriate and

prudent for emergency planning guidance to take into consideration the principal characteristics [such as nuclides released and distances likely to be involved] of a spectrum of design basis and core melt accidents The Commission is directing its staff to incorporate the planning basis into existing documents used in the evaluation of State and local emergency response plans to the extent practicable." (id.)

NUREG-0396 had said in this regard:

"If adopted by the NRC, the Task Force expects that the key elements of the guidance would be incorporated in the NRC's primary emergency planning guidance publication for States and their local governments (NUREG-75/111) ^{1/} and therefore used by Federal agencies as a part of the basis for concurrence in State and local government Radiological Emergency Response Plans in support of power reactor facilities." (NUREG-0396, Foreward at ii).

NUREG-0396 considered both the consequences and probabilities of a full range of accidents, including those exceeding both Part 50 design basis events and Part 100 assumptions, and including specifically a range of Class 9 events and WASH 1400 scenarios.

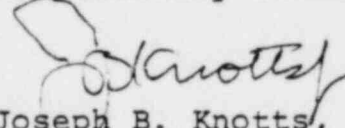
"As an alternative to attempting to define a specific accident sequence, the Task Force decided to identify the bounds of

^{1/} The Foreward to NUREG-0654 indicates that it provides a basis for, inter alia, state and local governments to develop emergency plans and improve emergency preparedness, and that it "supersedes other previous guidance and criteria published by NRC and FEMA on this subject." (NUREG-0654 at i). The text states "This document supersedes NUREG-75/111 (NUREG-0654 at 5)

the parameters for which planning is recommended based upon a knowledge of the potential consequences, timing, and release characteristics of a spectrum of accidents." (NUREG-0396 at 5; see also pages 6, 8-9, 14-15, 17, 24, and Appendices I and III).

It is thus clear that NUREG-0396 was considered by the Commission in promulgating its final emergency planning rules. It is likewise clear that the guidance of NUREG-0396 was to be, and was, considered and drawn upon ^{2/} by the federal planners who prepared NUREG-0654, the successor document to NUREG-75/111. (See note 1/).

Respectfully submitted,


Joseph B. Knotts, Jr.
Counsel for Applicants

Date: August 7, 1981

2/ NUREG-0654 at 4-18, especially Tables 1, 2, 3 on pages 17-18, and Appendix 1. The planning basis in Part I of NUREG-0654 is carried over into the standards and evaluation criteria in Part II, e.g. page 42, and page 46. For example, the licensee must include the initiating conditions in Appendix 1; see e.g., pages 1-16 through 1-19.

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SOUTH CAROLINA ELECTRIC &
GAS COMPANY and

SOUTH CAROLINA PUBLIC SERVICE
AUTHORITY

(Virgil C. Summer Nuclear
Station)

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Docket No. 50-395 L

CERTIFICATE OF SERVICE

I hereby certify that copies of "Applicants' Motion to Exclude Testimony of Dr. Raku on Contention A8" and Attachments in the above captioned matters, were served upon the following persons by deposit in the United States mail, first class postage prepaid this 7th day of August, 1981.

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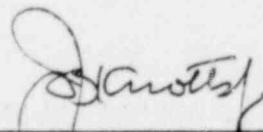
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