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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

APR 2 8 1977

MEMORANDUM FOR: Frank J. Arsenault, Acting Director Division of Safeguards, Fuel Cycle and Environmental Research

FROM:

Robert M. Bernero, Chief Fuel Reprocessing and Recycle Branch Division of Fuel Cycle and Material Safety

SUBJECT: COMMENTS ON REPORT NO SAI-121-612-7802

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I have reviewed the subject report and have the following comments:

Decontamination Criteria (p. V-42)

Your investigators should be aware that the Office of Standards Development is active in reconsideration of criteria for decontamination as part of their studies on decommissioning.

2. Sabotage With Nuclear Explosives

It might be useful if these investigators assessed the validity of the widely quoted analysis by Dr. John Gofmanl/ regarding the spread of contamination resulting from the detonation of a 5 to 20 kiloton bomb at the Barnwell facility. Gofman calculated at minimum serious contamination of a multi-state area of 144,000 square miles. Gofman's testimony is reprinted on pages 5-25.29ff of NUREG-0002 (GESMO).

Robert M. Bernero, Chief Fuel Reprocessing and Recycle Branch Division of Fuel Cycle and Material Safety

Gofman, John W., M. D., Ph.D., Some Important Unexamined Questions Concerning the Barnwell Nuclear Fuel Reprocessing Plant, Testimony before the Nuclear Study Committee of the Legislature of the State of South Carolina, Columbia, South Carolina (January 7, 1972)

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