

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 22, 1981

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555



Dear Ms. Adensam:

In the Matter of
Tennessee Valley Authority

) Docket Nos. 50-327
) 50-328

Enclosed is TVA's fourth quarterly progress report on the Sequoyah Nuclear Plant "Research on Hydrogen Combustion and Control." This quarterly progress report is an update concerning the schedule, scope of activities, and major progress of activities. A review is provided of TVA's hydrogen programs, the Ice Condenser Owner's Group programs, and the IDCOR program.

Attached to the quarterly progress report is the Acurex Corporation report FR-81-87-EE, "Catalytic Combustion of Hydrogen in the Presence of Methyl Iodide." The Factory Mutual final report concerning the conduct of small scale tests for the interrelationship between droplet size, water concentration, and hydrogen concentration will be transmitted separately as soon as it is available.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

A handwritten signature in cursive script, appearing to read "L. M. Mills".

L. M. Mills, Manager
Nuclear Regulation and Safety

Sworn to and subscribed before me
this 22nd day of Sept. 1981

Bryant M. Lowery
Notary Public
My Commission Expires 4/4/82

Enclosure
cc: See page 2

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Director of Nuclear Reactor Regulation

September 22, 1981

cc (Enclosure):

Mr. K. C. Canady, Manager
Project Coordination & Licensing
Duke Power Company
P.O. Box 33189
Charlotte, North Carolina 28242

Mr. Juan Castresan
American Electric Power Service Co.
2 Broadway
New York, New York 10004