



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 24, 1994

Docket No. 52-003

Mr. Nicholas J. Liparulo
Nuclear Safety and Regulatory Activities
Westinghouse Electric Corporation
P.O. Box 355
Pittsburgh, Pennsylvania 15230

Dear Mr. Liparulo:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON THE AP600 *

The staff requires additional information on the SPES-2 test conditions to set up consistent test conditions in the ROSA/AP600 test facility for counterpart tests. Enclosed is the staff's question (Q952.49)*. In order to support the ROSA/AP600 test schedule, please respond to this request within 30 days of the date of receipt of this letter.

You have requested that portions of the information submitted in the June 1992, application for design certification be exempt from mandatory public disclosure. While the staff has not completed its review of your request in accordance with the requirements of 10 CFR 2.790, that portion of the submitted information is being withheld from public disclosure pending the staff's final determination. The staff concludes that this request for additional information does not contain those portions of the information for which exemption is sought. However, the staff will withhold this letter from public disclosure for 30 calendar days from the date of this letter to allow Westinghouse the opportunity to verify the staff's conclusions. If, after that time, you do not request that all or portions of the information in the enclosures be withheld from public disclosure in accordance with 10 CFR 2.790, this letter will be placed in the NRC's Public Document Room.

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*The number in parentheses designates the tracking numbers assigned to the question.

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Mr. Nicholas J. Liparulo

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This request for additional information affects nine or fewer respondents, and therefore, is not subject to review by the Office of Management and Budget under P.L. 96-511.

If you have any questions regarding this matter, you can contact me at (301) 504-1120.

Sincerely,

Original Signed by...

Thomas J. Kenyon, Project Manager
Standardization Project Directorate
Associate Director for Advanced Reactors
and License Renewal
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

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Mr. Nicholas J. Liparulo
Westinghouse Electric Corporation

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AP600

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REQUEST FOR ADDITIONAL INFORMATION
ON THE SPES-2 TEST CONDITIONS

952.49 Provide the following information on the SPES-2 test conditions.

- a. Break geometry
 - 1. Target break mass flow at specified conditions.
 - 2. Scaling criteria for break area.
 - 3. Break length-to-diameter ratio.
 - 4. Break geometry, e.g., beveled orifice, etc.
- b. Core power decay
 - 1. Basis for core power decay, viz. exposure, fuel makeup, steady-state conditions.
 - 2. Scaling basis, e.g., how should stored energy be considered?
- c. Trace heating

Should trace heating be used and, if so, using what scaling basis? Provide a description of the control logic.
- d. Initial conditions
 - 1. Pressurizer level (Based on what? Scaled gas volume? Scaled liquid volume? Height?)
 - 2. Initial thermodynamic conditions in primary and secondary, e.g., pressure and temperature.
 - 3. Initial flow conditions.
 - 4. Secondary water level or mass level?
 - 5. Pressurizer heater level.
 - 6. Tank water levels, e.g., IRWST
 - 7. Back pressure setpoints for breaks.
- e. Boundary conditions
 - 1. Trip points and time delays for all equipment, e.g., pressurizer heaters, S-valves (CMT, IRWST, PRHR, and isolation valves), ADS, scram, turbine stop valve, secondary SRVs and PORVs, pumps, and accumulators.
 - 2. Pump coastdown curves.
 - 3. Pressurizer heater controls.
 - 4. Secondary valve closure controls.
 - 5. Core power control.
- f. ADS
 - 1. The basis for design.
 - 2. Scaling requirements for ADS orifices, including target mass flows at specified conditions.
- g. SRVs & PORVs

Target mass flows at specified conditions.

Enclosure