



General Electric Company
175 Curtner Avenue, San Jose, CA 95125

April 11, 1994

Docket No. 52-001

Chet Poslusny, Senior Project Manager
Standardization Project Directorate
Associate Directorate for Advanced Reactors
and License Renewal
Office of the Nuclear Reactor Regulation

Subject: Submittal Supporting Accelerated ABWR Schedule -
Suppression Pool Strainers

Dear Chet:

In a conference all on April 11, 1994, between GE Nuclear Energy and the NRC Staff, an agreement for closing Open Item 6.2.1.9-1 (Suppression Pool Strainer) of the ABWR Advanced FSER was reached. Messrs. R. Barrett, J. Moring, D. Tang, and C. Poslusny for the NRC and C. Sawyer, A. Beard and W. Taft of GENE participated in the call and agreed that the requirements in the enclosure satisfactorily resolve this Open Item F6,2.1.9-1. A SSAR modification of Appendix 6C will follow in the next couple of days incorporating the agreed upon requirements and including a sample calculation.

If you should have any further questions, please contact Alan Beard at (301)770-5985.

Sincerely,

Jack Fox
Advanced Reactor Programs

cc: Alan Beard (GE)
Norman Fletcher (DOE)
Joe Quirk (GE)

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ENCLOSURE

- 1) All ECCS Strainers will at a minimum be sized to conform with the guidance provided in Reg Guide 1.82 Rev. 1 for the most severe of all postulated breaks.
- 2) The following clarifying assumptions will also be applied and will take precedence:
 - a) The debris generation model will utilize right angle cones acting in both directions;
 - b) The amount of insulation debris generated will be assumed to be 100% of the insulation in a distance of $3 L/D$ of the postulated break within the right angle cones including targeted insulation;
 - c) All of the insulation debris generated will be assumed to be transported to the suppression pool;
 - d) The debris in the suppression pool will be assumed to remain suspended until it is captured on the surface of a strainer.
- 3) The sizing of the RHR suction strainers will assume that the insulation debris in the suppression pool is evenly distributed to the 3 pump suctions. The strainer size will be determined based on this amount of insulation debris and then increased by a factor of 3. The flow rate used for calculating the strainer size will be the runout system flow rate.
- 4) The sizing of the RCIC and HPCF suction strainers will conform to the guidance of Reg Guide 1.82 and will assume that the insulation debris in the suppression pool is proportionally distributed to the pump suctions based on the flow rates of the systems at runout conditions. The strainers assumed available for capturing insulation debris will include 2 RHR suction strainers and a single HPCF or RCIC suction strainer.