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NTD-NTD-94-4161  
DCP/NRC0102  
Docket No.: STN-52-003

June 7, 1994

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTENTION: R. W. BORCHARDT

SUBJECT: LOADS AND LOAD COMBINATIONS FOR INDEPENDENT ANALYSES OF  
THE AP600 CONTAINMENT VESSEL

Dear Mr. Borchardt:

The following is provided to document the responses to questions from Lowell Greimann, Ames Lab. The questions and responses are provided below. These responses were discussed by Richard Orr and Tom Cheng during the meeting in San Francisco the week of May 1, 1994.

1. What is the operating pressure?  
ANSWER: The operating pressure is specified to be in the range of -0.2 psig to 1.0 psig.
2. What is the operating temperature?  
ANSWER: The operating temperature is specified to be in the range of -40°F to 120°F. This temperature is the metal temperature and can be expected to be different above and below the 132' floor in the shield building annulus.
3. What is the temperature associated with 2.5 psig and 3.0 psig external pressure?  
ANSWER: The external pressure (2.5 psig and 3.0 psig) is associated with the operating temperature.
4. Are we also to analyze the containment for 3.0 psig external pressure and, if so, what loads should it be combined with?  
ANSWER: NRC requested that analyses should be performed for SSE concurrent with the 3.0 psig external pressure.
5. Should wind be combined with SSE in Level C analysis?  
ANSWER: Analyses are not required at this time for wind loads. Note that Westinghouse transmitted WCAP-14068 on the wind tunnel tests on June 6, 1994 with letter number NTD-NRC-94-4156.

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