

From: Cheng-Ih Wu
To: Rick Ennis
Date: 7/21/05 12:44PM
Subject: TOPICS TO BE DISCUSSED WITH GE AND ENTERGY

Attached is the topics we discussed today at the conference call with GE and Entergy.

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TOPICS TO BE DISCUSSED WITH GE AND ENTERGY DURING AUDIT AT GE VALLECITOS FACILITY PERTAINING TO THE SCALE MODEL TEST

- 1. Validation of the scale model test results against the available in-plant test data, the scaling method of pressure amplitude and the effect of medium properties at elevated pressure and temperature on the excitation source strength and on sound attenuation in the full-scale plant.**
- 2. Applicability of the small-scale model to the VYNPS, including details of main steam piping and other secondary piping, water-steam interface, upstream and downstream boundary conditions as well as the degree of geometry simplification in the model, e.g. dryer vanes and main steam isolation valve.**
- 3. Measurement methodology pertaining to locations of microphones and strain gauges, interference of measuring sensors with the flow, phase between different signals as function of frequency, proper orthogonal decomposition of pressure signals to understand excitation sources, and flow visualization.**
- 4. Benchmark testing of the acoustic circuit method, including tests with and without flow or sound excitation, method of introducing external sound excitation, effect of flow rate and intensity of applied sound, and reasons for selecting the test conditions of benchmark testing.**
- 5. Source screening test results and how the knowledge gained from these tests can be used to solve the dryer problem.**
- 6. Comparison of the CFD simulation to the small-scale model results.**
- 7. Effects of test pressure on the amplitude of pressure oscillations.**