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Dear Mr. Engelken:

In response to IE Bulletin No. 80-05, "Vacuum Condition Resulting in Damage to Chemical Volume Control System Holdup Tanks," we have taken the prescribed actions and are reporting the results herewith.

There are five types of low pressure tanks containing primary coolant at the Diablo Canyon Nuclear Power Plant. These are the reactor coolant drain tank, the pressurizer relief tank, the Chemical and Volume Control System (CVCS) volume control tank, the miscellaneous equipment drain tank, and the Chemical and Volume Control System (CVCS) liquid holdup tanks. All of these tanks are presently protected against failure under vacuum conditions, as follows:

1. Reactor Coolant System (RCS) reactor coolant drain tank (one for each unit): structurally designed to withstand an external pressure of 15 psig (full vacuum).
2. Reactor Coolant System (RCS) pressurizer relief tank (one for each unit): structurally designed to withstand 15 psig external pressure.
3. Chemical and Volume Control System (CVCS) volume control tank (one for each unit): structurally designed to withstand 15 psig external pressure.
4. Liquid Radwaste System (LRS) miscellaneous equipment drain tank (one only): structurally designed to withstand 15 psig external pressure.

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5. Chemical and Volume Control System (CVCS) liquid holdup tanks (two for each unit, plus one common tank): structurally modified with external stiffening rings to withstand 1.5 psig external pressure. Control valves on two independent cover-gas supplies are set to open at +1.25 psig and +1.0 psig, respectively; discharge pumps are set to trip on negative tank pressure; and a vacuum relief valve on the vent line next to the roof is set to open at 1.15 psig external pressure.

Since the tanks are already adequately protected against failure under vacuum conditions, no further action is planned.

Very truly yours,

*Philip A. Brane, J*

CC: Service List

