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Date: Wed, Nov 2, 2005 5:01 PM
Subject: AP1000 Hot leg Tap Question

Here is the response relative to the impact on PRA

Comment: What is the impact of requiring both hot legs tripped above the P10 permissive (but below the P-8) permissive to result in a reactor trip? Is the statement in SER 19.3.6.6 still true?

Response:

The range of operation being considered here is between approximately 10 and 48 per cent power. Since the plant is expected to be in this power level range very infrequently there would be little or no effect on the PRA results. Please note that the 2 out of 4 pump speed trip considered in the PRA is not changed. The statement in Chapter 19 of the DCD that partial power conditions are bounded by full power conditions is not changed. The analyses for partial loss of flow with two pumps coasting down are based on one pump on each steam generator.

The most likely reason for two cold legs to lose flow would be because of the loss of power to two pumps. The power supply to the RCPs is arranged such that the power bus feeds two pumps connected to opposing steam generators. Loss of power to one pump each on two steam generators would result in low flow in both hot legs.

We believe that the statements in SER 19.3.6.6 remains true for the change in flow sensor to a hot leg elbow tap.

D. A. Lindgren

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