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## Exercise 1

During a monthly surveillance to verify the boron concentration in the standby liquid control storage tank, the licensee identified that the boron concentration was substantially less than that required for the system to fulfill its safety function during an anticipated transients without scram (ATWS) event. It was subsequently determined that the cause of the low boron concentration in the tank was the failure to establish the required boron concentration following maintenance on the tank, which had been performed 28 days earlier. If an ATWS had occurred and standby liquid control (SLC) was ineffective in reducing power due to the low boron concentration, the emergency operating procedures would have directed the operators to perform alternate boron injection to reduce reactor power. The operators were trained on the emergency operating procedures, sufficient time was available to perform alternate boron injection before core damage occurred, the equipment was available to perform alternate boron injection and the reactor building environmental conditions would not have been degraded at that point in the event.

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