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INL INITIAL NOTIFICATION REPORT

Entered By:	E. J. Schuebert
Date Entered:	15 February 2010
Site:	ATR Complex
Responsible Organization:	ATR Operations
Title:	Radiation Monitoring System (RMS) Channel A Failure
Discussion of Event/Condition:	**Summary:** On 14 February 2010 at 1328 RMS Channel A failed high. Since RMS Channel B was previously out of service and in a manually tripped condition, the failure of Channel A satisfied the actuation logic (two out of three channels in a tripped condition) and an RMS-1 trip was automatically initiated. An RMS-1 trip secures building ventilation fans and shuts ventilation system dampers, isolating the ATR confinement. **Action Taken:** Technical Safety Requirement (TSR) 3.2.2 Condition B was entered. This action requires an RMS-1 to be actuated OR a reactor scram to be initiated within 30 minutes. Since the failure of RMS Channel A caused an RMS-1 to be automatically actuated, the required action was immediately met. The reactor was operating at 111 MW for the operating cycle with two primary coolant pumps (PCP) in operation at the time of failure. Building ventilation is the cooling medium for the PCP motors; therefore the decision was made to shutdown the ATR. The reactor was shut down in accordance with approved procedure at 1357. TSR applicability for the RMS system was exited at 1427 (30 minutes after reactor scram) and building ventilation was restored to provide cooling to the PCP motors at 1441. Notifications were made to management and DOE facility representative.
Safety Significance:	Low, all actions required by the TSR were taken well within the allowed time frame and the reactor was promptly shut down.
Reportability:	No reportability criteria were met.