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INL INITIAL NOTIFICATION REPORT

Entered By:	Bruce Criswell
Date Entered:	26 July 2010
Site:	ATR Complex
Responsible Organization:	ATR Operations
Title:	Momentary Slow Setback from loop 2D-SW
Discussion of Event/Condition:	**Summary:** At 1327 on 25 July 2010, while establishing loop temperature on loop 2D-SW experiment at the sponsor requested test conditions, a slow setback (SSB) occurred due to loop thermocouple (TC-4) reaching the SSB setpoint. The reactor was at full power at the time of the setback. Approximate duration of the SSB was 4 seconds and resulted in a 3% power reduction. The loop was at startup temperature with temperature control being maintained with the temperature control valve (TCV) -31 control valve and line heater controller in the automatic mode. With the TCV-31 control valve in "AUTO", 4-5 degree peak to peak loop temperature oscillations were occurring at approximately one minute intervals. As a result of the temperature oscillations, the loop TCV -31 was placed in the "manual" mode in accordance with OMM-3.15.3.2.7, "Establishing Loop Temperature Conditions". Placing the controller in manual occurred on an oscillation upswing which resulted in temperature increasing to the TC-4 SSB setpoint. The temperature overshoot resulted in an unexpected high temperature alarm and a momentary SSB. The experiment contains 12 themocouples (TC), one of which is used to control experiment operating parameters, the others provide experiment data, experiment alarms, and a SSB function. **Action Taken:** When loop high temperature alarm was received, Loop Operating Control Station operators lowered the control signal to TCV-31 to reduce loop temperature. Once conditions stabilized loop temperature was raised to test conditions and the reactor returned to full power at 1356. LWP-13815, "INL Investigation Process" was entered and no Appendix A criteria or appendix C criteria were met. A formal critique of this issue will be scheduled.
Safety Significance:	Reactor safety was not impacted. Loop temperature SSB set points are established to provide for experiment protection and are not required to assure the safety of the reactor.
Reportability:	No reportability criteria were met.