ENCLOSURE 3

CONDITION REPORT (CR 11041)
REVERSED RESISTANCE TEMPERATURE DEVICE
WIRING IN DRIFT SCALE TEST

The condition report revealed that two sensors (ESF-HD-158-TEMP13-RTD-6 and ESF-HD-158-TEMP13-RTD-7) were mistakenly cross-wired during the test. Consequently, the conversion constants that were applied to the temperatures measured by these two sensors were reversed. After checking the wiring pattern of other sensors and reviewing the test's scientific notebook (SN-LANL-SCI-319-VI), it was found that there were no other instances of this condition.

Although the affected temperatures were identified, the Data Tracking Numbers with the original temperatures were not changed or superseded and continue to be qualified for the following reasons:

- The corrected temperatures do not perceptibly affect the test results as they comprise only about 0.06 percent of all the temperatures that were collected.
- The corrected temperatures differ from calculated temperatures for the same locations by less than 0.5°C.
- The corrected temperatures are consistent with the temperatures measured by sensors that were properly wired.

The Total System Performance Assessment (TSPA) does not directly rely on any of the temperatures measured during the Drift Scale Heater Test. Rather, the measured temperatures corroborate calculated temperatures that TSPA uses directly as modeling inputs. Consequently, the errors in the measured temperatures do not propagate into the modeling results.

For these reasons, the original temperatures, which are enclosed, remain qualified and are not superseded by the corrected temperatures.