

LER SUPPLEMENTAL INFORMATION

BFRO-50- 260 / 82024 Technical Specification Involved 2.1

Reported Under Technical Specification 6.7.2.b.(1)* Date Due NRC 08/29/82

Event Narrative:

Unit 1 was operating at 80-percent power and unit 3 at 86-percent power. These units were unaffected by this event. While operating unit 2 at 63-percent power, it was determined that the computer heat balance (OD-3) was calculating an incorrect thermal power (T.S. 2.1.A). After recalibration of the feedwater flow rate instrumentation, the cause was determined to be a leaking root valve to the "A" feedwater line flow transmitter. The valve was a Dragon model 500-F needle valve. The correct thermal power was determined by manual heat balance. The total feedwater flow rate value for this calculation was obtained by doubling the "B" feedwater lines flow rate value. The power calculated by OD-3 was 1632 MWe, and 2209 by manual heat balance. Core thermal limits were evaluated using the offline computer method (CLIP) and the APRMs were recalibrated per SI 4.1.B-2 using the power level obtained from the manual heat balance. A review of thermal limit calculations and APRM calibration data for the period affected by this problem indicated that no thermal limits were exceeded as a result of this problem and that the correct scram setpoints were not exceeded. The unit was shutdown for refueling on July 30, 1982. The feedwater flow rate indication will be corrected prior to startup. The manual heat balance technical instructions (TI1) will be revised to monitor individual feedwater line flow rate and plant efficiency to provide early detection for similar problems. There was no danger to the health or safety of the public. Thermal limits and calculated scram points were not exceeded. There are no redundant systems.

* Previous Similar Events:

NONE

Retention: Period - Lifetime; Responsibility - Document Control Supervisor

*Revision: J.R.R.