

ABNORMAL OCCURRENCE REPORT

Report No.: BFEAO-7422W
Report Date: December 12, 1974
Occurrence Date: December 2, 1974
Facility: Browns Ferry Nuclear Plant

Identification of Occurrence

Water temperatures in Wheeler Reservoir were not recorded during the period 0100 CST to 0815 CST on December 2, 1974.

Conditions Prior to Occurrence

Unit 1 load held constant at 1030 MWe and unit 2 load at 650 MWe. River flow was 21,000 cfs at 0100 CST, decreasing to 19,000 cfs at 0300 CST, then increasing to 46,000 cfs at 0815 CST on December 2. Water temperature at the time of occurrence was 49.7°F. at the downstream monitor and 49.6°F. at the upstream monitor.

Description of Occurrence

The last valid record of river water temperatures was made at 0045 hours CST on December 2, 1974. At 0730 hours CST, the environmental data collection system maintenance supervisor was notified. Maintenance personnel were immediately dispatched to the plant arriving at 0800 hours CST and began a manual reporting of reservoir water temperatures at 0815 hours CST. Additional reports were made at 0915 hours CST. The environmental data collection system was restored to normal operation at 1000 hours CST on December 2, 1974.

Designation of Apparent Cause of Occurrence

River water temperatures were not recorded because of a failure in the computer controlling the collection of these data.

Analysis of Occurrence

An analysis of all river water temperature data available before and following this occurrence indicates that the Environmental Technical Specification limits regarding temperature and temperature increases were not exceeded during the occurrence. These data are tabulated on the following table:

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<u>Date and Time</u> CST	<u>Temperature</u> <u>Upstream</u> °F	<u>Temperature</u> <u>Downstream</u> °F	<u>Delta T</u> °F	<u>River Flow</u> cubic feet per second
12/1/74, 2400 hrs	49.7	49.7	0	27,000
12/2/74, 0045 hrs	49.6	49.7	+ .1	
0100 hrs				21,000
0200 hrs				19,000
0300 hrs				19,000
0400 hrs				19,000
0500 hrs				20,000
0600 hrs				28,000
0700 hrs				40,000
0815 hrs				46,000
0915 hrs				49,000
1000 hrs				51,000

Corrective Action

Upon arrival of the environmental data collection system maintenance personnel, the standby computer spare memory board was interchanged with the existing memory board and normal operations resumed. The standby memory board had been software program loaded and maintained at the environmental data station for just such ready access situations.

Failure Data

The memory board malfunction, as verified by diagnostic test program, was not a hardware failure. Further tests on software program indicated that an electrical transient condition resulted in changing the program information in some memory locations.

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401

December 12, 1974



Mr. Edison G. Case
Acting Director of Licensing
Office of Regulation
U.S. Atomic Energy Commission
Washington, DC 20545

Dear Mr. Case:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT
UNIT 1 - DOCKET NO. 50-259 - FACILITY OPERATING LICENSE
DPR-33 - ABNORMAL OCCURRENCE REPORT BFEAO-7422W

The enclosed report provides details concerning the failure to record river water temperatures because of a malfunction in the computer controlling the collection of these data. This event occurred at Browns Ferry Nuclear Plant on December 2, 1974, and is reported in accordance with Appendix A to Regulatory Guide 1.16, Revision 1, October 1973.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

E. F. Thomas
E. F. Thomas
Director of Power Production

Enclosure
CC (Enclosure):

Mr. Norman C. Moseley, Director
Region II Regulatory Operations Office, USAEC
230 Peachtree Street, NW., Suite 818
Atlanta, Georgia 30303

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