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F. L. CLAYTON, JR.
Senior Vice President

Alabama Power
the southern electric system

August 20, 1980

Docket No. 50-364

Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. A. Schwencer

JOSEPH M. FARLEY NUCLEAR PLANT - UNIT 2
TMI-2 ACTION PLAN

Gentlemen:

In accordance with item 2 of Mr. Tedesco's letter dated July 16, 1980, Alabama Power Company submits the attached information concerning the TMI-2 Action Plan for Farley Nuclear Plant - Unit 2.

If you have any questions, please advise.

Yours very truly,

for F. L. Clayton, Jr.

RWS/rt

Attachment

cc: Mr. R. A. Thomas
Mr. G. F. Trowbridge
Mr. L. L. Kintner
Mr. W. H. Bradford

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ATTACHMENT

Position

2. Before full power operation, provide the frequency of leak inspection and the criteria that will be used for determining acceptable leakage limits for each system (or subsystem) to which you refer in items C and D on page 88 and 89 of your response.

Response

A plant procedure (FNP-2-ETP-168) will be written and approved prior to fuel loading describing the following leakage measurement system:

1. All vent and drain lines in the scoped systems will be verified to be capped and not leaking.

2. The packing of all valves (except Kerotest which is a packless, stainless steel diaphragm valve) in the scoped liquid systems will be inspected for leakage (or evidence of leakage such as boric acid accumulation) with the systems in operation. Maintenance will be performed on the packing of liquid system valves identified as requiring work to provide for lowest practical leakage. Leakage rates will be recorded in drops per minute or hour.

3. The seals and packing on all pumps in the scoped liquid systems will be inspected for leakage or signs of leakage. Maintenance will be performed as required to provide for lowest practical leakage and leakage rates recorded in drops per minute or hour.

4. Valves, fittings, and compressor seals in the scoped gaseous systems will be "snooped" for leakage. Maintenance will be performed on gas system valves to provide for lowest practical leakage and instrument fittings identified during leak tests as requiring work. Leakage rates will be recorded in bubbles per minute.

5. Following items 1 through 4, three integrated leak rate tests using mass balance technique will be conducted as follows:

   (a) RCS, charging, letdown, RCS sampling and high lead safety injection to containment isolation valves and BIT inlet valve.

   (b) Systems listed in (a) plus one train of RHR and low head safety injection to containment isolation valves.

   (c) Same as (b) but with opposite RHR train on service.

6. System leakage will be calculated by converting leakage of each component to gpm for liquids and cfm for gases and summing the values. These values will be verified by comparison to the integrated test results.

This program is under the supervision of the Maintenance Superintendent and includes removal of boric acid residue on components in order to facilitate leak detection during subsequent inspections. Leak rate measurements will be performed initially during power ascension testing and periodically at intervals not to exceed each refueling outage. Records of leakage rates will be retained in the plant maintenance files for NRC I & E inspection and will be retrievable using computer indexing.