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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

PACILITY NAME (1)	DOCKET NUMBER (2)	Τ		L	ER NUMBER (T	PAGE (3)					
		t	YEAR		SEQUENTIAL		NUMBER	22				
Browns Ferry - Units 1, 2, and 3	0 15 10 10 10 12 15 1	9	8 4	-	01210	-	.010	0	2	OF	0	12

During normal operation, Unit 1 was at 100-percent power, Unit 2 was at 60-percent power, Unit 2 was at 60-percent power, and Unit 3 was in a refueling outage.

TVA's design group discovered present design was not in accordance with Section 8.5.2.3 of the FSAR. The section states,

"For the long-term (greater than ten minutes), three of the Units 1 and 2 diesel-generators, paralleled with the three respective Unit 3 diesel-generators, shall be adequate to supply all required loads for the safe shutdown and cooldown of all three units in the event of loss of offsite power and a design basis accident in any one unit."

Contrary to the above, in the presence of an accident signal, paralleling is not possible with the configuration installed by a 1976 modification. It was believed by the designer at that time that an accident signal would not be present for longer than ten (10) minutes and for the initial ten (10) minutes a single dieselgenerator (EK) could support its required shutdown board (ECDB) load. Current analysis assumes this common accident signal might not be cleared within ten minutes and therefore the sustained signal would prevent parallel operation. For periods over ten (10) minutes in a worse case situation, a single diesel-generator can be overloaded and it would be necessary to parallel diesel-generators. In addition, there is no documented evidence the diesel-generators can handle the longterm load requirements for a loss of offsite power combined with design basis accident without paralleling the diesel-generators.

Plant instructions Emergency Operating Instruction 36 and Operating Instruction 57 were revised to include a temporary administrative procedure that will defeat the lockout feature of the accident signal by use of a relay (RLY) contact inhibit (this would be installed to facilitate long-term load requirements following a loss of coolant accident). A modification to make this feature automatic is in progress and should be complete by August 15, 1984.

This error was found by TVA's design group in the Appendix R Analysis Review and this review is ongoing.

Responsible Plant Section - ED

Previous Similar Events - None

NRC Form 366A

TENNESSEE VALLEY AUTHORITY Browns Ferry Nuclear Plant P. O. Box 2000 Decatur, Alabama 35602

May 25, 1984

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE REPORT BFR0-50-259/84020

The enclosed report provides details concerning failure to meet design basis for paralleling diesel-generators. This report is submitted in accordance with 10 CFR 50.73 (a)(2)(ii).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

CA

G. T. Jones Power Plant Superintendent Browns Ferry Nuclear Plant

Enclosure cc (Enclosure): Regional Administrator U. S. Nuclear Regulatory Commission Office of Inspection and Enforcement Region II 101 Marietta Street, Suite 2900 Atlanta, GA 30303

NRC Inspector, Browns Ferry Nuclear Plant

