

FEB 21 1975

Docket No. 50-313

Arkansas Power and Light Company
ATTN: Mr. J. D. Phillips
Senior Vice President
Production, Transmission
and Engineering
Sixth and Pine Streets
Pine Bluff, Arkansas 71601

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Gentlemen:

We have reviewed the information you submitted concerning deletion of the generator separation test at 100 percent power during the power escalation test program for the Arkansas Nuclear One - Unit 1 (ANO-1) plant, Facility License No. DPR-51. The matter was discussed on several occasions with representatives of Arkansas Power and Light Company (AP&L).

Your bases for deletion of the generator separation test was submitted by your letter dated January 6, 1975, and supplemented on January 14, 1975, by a report of an unplanned generator trip from full power. Your justification for the deletion of this test from your power escalation test program was that the generator separation test would give similar results for the transient on the unit as experienced during the turbine trip test already performed. You also indicated that no new data would be obtained by performing this test.

Based upon our review of your justification for deletion of the generator separation test, we have concluded that the results of the turbine trip test did not satisfy the test objectives for the generator trip (separation) test as given in Regulatory Guide 1.68 or an earlier guide, "Guide for the Planning of Initial Startup Programs". The objectives of the generator trip test are to assure that the turbine generator will not exceed its design speed and to establish that the plant's electrical system will perform as designed for this transient test during which the electrical system may be subjected to frequencies in excess of 60Hz. To accomplish these test objectives, you should assure that the generator is

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disconnected from the transmission system in a manner that will result in plant conditions consistent with the assumptions used to calculate the maximum overspeed value for the generator. Such plant conditions can normally be simulated by opening the generator output breaker in a manner that will require a turbine generator overspeed condition to initiate closure of the steam admission or stop valves. The inadvertent generator trips that have been experienced at ANO-1 recently were initiated in a manner that resulted in automatic simultaneous generator separation from the transmission system and closure of the steam stop valves. For such cases, the turbine generator would not be expected to increase in speed and the objectives of the generator trip test, as stated above, would not be satisfied.

Section 13 of the Final Safety Analysis Report provides for the performance of generator trip test at 100 percent power. Our acceptance of the test program was based, in part, on this test. Based on our review as discussed above, we have concluded that your justification for deletion of the generator trip test is unacceptable, and therefore, the generator trip test should be performed at 100 percent power and in a manner which satisfies the test objectives stated above.

Sincerely,

Original signed by:
Karl R. Goller, Assistant Director
for Operating Reactors
Division of Reactor Licensing

cc:
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