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February 29, 2008

NL-08-0207

Docket Nos.: 50-321
50-366

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant
Report of Facility Changes, Tests, and
Experiments Safety Evaluation Summaries

Ladies and Gentlemen:

Enclosed is the 24 month report of facility changes, tests, and experiments safety evaluation summaries in accordance with the requirements of 10 CFR 50.59(d)(2). This report is for the time period of January 1, 2006 to December 31, 2007.

This letter contains no NRC commitments. If you have any questions, please contact Paul Herrmann at 205-992-7040.

Sincerely,

D. H. Jones
Vice President – Engineering

DHJ/PAH/daj

Enclosure: Report of Facility Changes, Tests, and Experiments Safety Evaluation Summaries

cc: Southern Nuclear Operating Company
Mr. J. T. Gasser, Executive Vice President
Mr. D. R. Madison., Vice President – Hatch
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Mr. V. M. McCree, Acting Regional Administrator
Mr. R. E. Martin, NRR Project Manager – Hatch
Mr. J. A. Hickey, Senior Resident Inspector – Hatch

Edwin I. Hatch Nuclear Plant

Enclosure

Report of Facility Changes, Tests, and Experiments
Safety Evaluation Summaries

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10 CFR 50.59 SUMMARIES

DESIGN CHANGE REQUESTS (DCR)

DCP 1052517401

Generic letter 2003-001 entitled "Control Room Habitability" requires that the main control room be tested for unfiltered in-leakage to satisfy the requirements of General Design Criteria (GDC) 19. For Plant Hatch, the limit of the unfiltered in-leakage credited in the operator dose estimate is based on operating the main control room environmental control (MCREC) system in the pressurization mode. Currently, the cable spreading room supply and exhaust fans 1Z41C009 and 1Z41C010, are manually tripped by the operator when the control room is pressurized. This is to prevent a potential malfunction of those fans that could impact the ability to maintain the control room at a positive pressure.

This design change is to provide an automatic trip of the cable spreading room supply and exhaust fans upon the automatic initiation of the pressurization mode of the MCREC system. This is a licensing commitment in NL-06-1637, "Request to Implement an Alternate Source Term," dated August 29, 2006.

The cable spreading room fans are not safety-related. Their function is to regulate the temperature in the cable spreading room. The MCREC system is safety-related and the function of the pressurization mode is to maintain the habitability of the control room in the event of a loss of coolant accident, fuel handling accident, main steam line break or control rod drop accident.

The cable spreading room fans will perform the same function as before, that is, to cool the cable spreading room. The fans will be automatically tripped upon automatic initiation of the MCREC system instead of being tripped manually. Automatically tripping the cable spreading room fans will ensure that the MCREC system is not impeded in performing its function to keep the main control room at a positive pressure. No new active components are being introduced. The relays used to trip the cable spreading room fans are existing safety-related relays. Relay coil to contact isolation prevents the nonsafety-related circuit from affecting the safety-related circuit. There is no increase in the impact on the likelihood of a malfunction in the MCREC system. The cable spreading room fans are not an system, structure or component (SSC) previously evaluated in the Updated FSAR. The likelihood of occurrence of a malfunction important to safety is not increased.