



Southern Nuclear Operating Company

the southern electric system

Dave Morey
Vice President
Farley Project

June 10, 1994

Docket Nos. 50-348
50-364

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

Joseph M. Farley Nuclear Plant
Steam Generator Water Level Setpoint Changes
Associated With Lower Level Tap Relocation

Gentlemen:

In accordance with the provisions of 10 CFR 50.90, Southern Nuclear Operating Company proposes to amend the Farley Nuclear Plant Units 1 and 2 Technical Specifications to change the Reactor Trip System (RTS) and Engineered Safety Feature Actuation System (ESFAS) setpoints associated with steam generator water level.

The Farley steam generator level tap relocation program increases the span of the narrow range protection system instrumentation by lowering the low pressure tap associated with the level transmitter variable leg sensing line. In addition, the steam generator level corresponding to the protection system low-low level setpoint will be reduced. The modification and reduced setpoint provide increased operating margin between the steam generator normal operating level and the low-low level trip setpoint. The increased operating margin will reduce challenges to the safety systems by producing more forgiving steam generator water level control responses and will provide additional transient capabilities, e.g., loss of a feedpump without reactor trip, to further improve plant reliability and availability. Also, the increased narrow range span allows quicker post-trip level recovery to help minimize cooldown effects and enhance recovery from events such as a tube rupture event by reducing isolation time of the faulted steam generator.

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Farley currently has reactor trip and safeguards actuation on steam generator low-low level for protection from loss of heat sink caused by postulated events such as loss of normal feedwater, feedline rupture, and loss of all AC power to station auxiliaries. The setpoint change reflects the proposed Farley modification to the lower level taps, including Farley specific instrumentation, procedures, calibration practices and uncertainties, and accounts for the increased span due to lowering of the steam generator lower level taps. In addition, the steam generator high-high level setpoint for turbine trip and feedwater isolation has been revised to be consistent with the increased narrow range span.

The proposed Technical Specifications RTS and ESFAS steam generator level setpoint changes are provided in Attachment I. The safety analysis, setpoint uncertainty evaluation, and technical justification for the steam generator lower level tap relocation modification and the associated narrow range low-low and high-high level setpoint changes are provided in Attachment II, WCAP-13992 (Proprietary Class 2) and WCAP-13993 (Proprietary Class 3). Also enclosed with Attachment II are Westinghouse authorization letter CAW-94-600 and accompanying affidavit, proprietary information notice, and copyright notice.

As WCAP-13992 contains information proprietary to Westinghouse Electric Corporation, it is supported by an affidavit signed by Westinghouse, the owner of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of Section 2.790 of the Commission's regulations. Correspondence with respect to the copyright or proprietary aspects of the items listed above or the supporting Westinghouse affidavit should reference CAW-94-600 and should be addressed to Nicholas J. Liparulo, Manager of Nuclear Safety and Regulatory Activities, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230-0355.

Southern Nuclear Operating Company has determined the proposed changes to the Technical Specifications do not involve a significant hazards consideration as defined by 10 CFR 50.92. The significant hazards evaluation is provided in Attachment III. Southern Nuclear Operating Company has also determined the proposed changes will not significantly affect the quality of the environment. A copy of the proposed changes has been sent to Dr. D. E. Williamson, the Alabama State Designee, in accordance with 10 CFR 50.91 (b)(1).

In order to complete the required preparations and finalize the schedule for the Farley Nuclear Plant steam generator level tap relocation design changes, Southern Nuclear Operating Company requests that the NRC review and approve the proposed Unit 1 and Unit 2 Technical Specifications amendments by January 27, 1995 based on a Unit 2 implementation schedule of March 1995. The modification for Unit 1 is presently scheduled for implementation during the refueling outage in September 1995. Therefore, Southern Nuclear Operating Company requests that the license amendments become effective upon implementation of the modifications. Should there be any questions, please advise.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

Dave Morey
Dave Morey

SWORN TO AND SUBSCRIBED BEFORE ME

This 10th day of June, 1994

Carol Louise Taylor
Notary Public

My Commission Expires: June 24, 1997

MGE/cit:SC/IIAP, Dcc

Attachments

- cc: Mr. B. L. Siegel
- Mr. S. D. Ebnetter
- Mr. T. M. Ross
- Dr. D. E. Williamson

ATTACHMENT 1

FNP Unit 1 Technical Specifications Proposed Changed Pages List

FNP Unit 1 Technical Specifications Marked-up Pages

FNP Unit 1 Technical Specifications Typed Pages

FNP Unit 2 Technical Specifications Proposed Changed Pages List

FNP Unit 2 Technical Specifications Marked-up Pages

FNP Unit 2 Technical Specifications Typed Pages