



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 30, 1999

Mr. D. N. Morey
Vice President - Farley Project
Southern Nuclear Operating
Company, Inc.
Post Office Box 1295
Birmingham, Alabama 35201-1295

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2 — ISSUANCE OF AMENDMENTS RE: CONVERSION TO IMPROVED STANDARD TECHNICAL SPECIFICATIONS (TAC NOS. MA1364 and MA1365)

Dear Mr. Morey:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 146 to Facility Operating License No. NPF-2 and Amendment No. 137 to Facility Operating License No. NPF-8 for the Joseph M. Farley Nuclear Plant, Units 1 and 2. The amendments change the Unit 1 and Unit 2 Technical Specifications (TS), TS Bases, and Facility Operating Licenses in response to your application of March 12, 1998, as supplemented by your following letters:

- | | | |
|---------------------|--------------------------------|----------------------|
| — April 24, 1998 | — April 30, 1999 (two letters) | — August 30, 1999 |
| — August 20, 1998 | — May 28, 1999 | — September 15, 1999 |
| — November 20, 1998 | — June 30, 1999 | — September 23, 1999 |
| — February 3, 1999 | — July 27, 1999 | |
| — February 20, 1999 | — August 19, 1999 | |

The amendments fully convert your Current TS (CTS) to Improved TS (ITS) based on NUREG-1431, "Standard Technical Specifications, Westinghouse Plants," Revision 1, of April 1995. The amendments add two new Additional Conditions to Appendix C of the Unit 1 and Unit 2 Facility Operating Licenses. The first new Additional Condition authorizes you to relocate certain CTS requirements to Southern Nuclear Operating Company-controlled documents. The second new condition addresses the schedule for performing new and revised ITS surveillances.

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ENCLOSURE

Mr. D. N. Morey

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November 30, 1999

We have also enclosed a copy of our related safety evaluation. We will include a Notice of Issuance in the Commission's biweekly *Federal Register* Notice.

Sincerely,

Original signed by:
L. Mark Padovan, Project Manager, Section 1
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-348 and 50-364

- Enclosures: 1. Amendment No. 146 to NPF-2
- 2. Amendment No. 137 to NPF-8
- 3. Safety Evaluation
- 4. Notice of Issuance

cc w/encls: See next page

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Docket File MPadovan
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PD II-1 R/F CSchulter
ACRS
OGC RScholl (E-mail SE)
PSkinner, Rll HBerkow

DOCUMENT NAME: G:\PDii-1\Farley\Farley ITS amd rev 5.wpd *No major changes to SEs.

To receive a copy of this document, indicate in the box: "C" = Copy with SE but no TS "E" = Copy with enclosures
"N" = No copy

OFFICE	PDII-1/PM	PDII-1/LA	C	IQMB/BC	SPLB/SC	SRXB	EELB/SC
NAME	MPadovan <i>MP</i>	CHawes <i>CH</i>		SE dated*	SEs dated*	SEs dated*	SE dated*
DATE	10/10/99	11/13/99		9/10/98	2/31 & 7/26/99	4/7, 5/19, & 7/23/99	7/28/99

EMCB/SC	EEIB/SC	IOLB/SC	IOLB/SC	RTSB/BC	OGC	PDII-1/SC
SE dated*	SE dated*	SE dated*	SE dated*	WBeckner <i>WB</i>	<i>OGC</i>	REmch <i>RE</i>
9/8/99	6/16/99	6/28/99	6/28/99	11/16/99	11/15/99	11/30/99

NO W/changes

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Table 3.3.1-1 (page 5 of 8)
Reactor Trip System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	TRIP SETPOINT
15. Turbine Trip						
a. Low Auto Stop Oil Pressure	1 (i)	3	O	SR 3.3.1.10 SR 3.3.1.13	≥ 43 psig	≥ 45 psig
b. Turbine Throttle Valve Closure	1 (i)	4	P	SR 3.3.1.10 SR 3.3.1.13	NA	NA
16. Safety Injection (SI) Input from Engineered Safety Feature Actuation System (ESFAS)	1,2	2 trains	Q	SR 3.3.1.12	NA	NA
17. Reactor Trip System Interlocks						
a. Intermediate Range Neutron Flux, P-6	2 (d)	2	S	SR 3.3.1.10 SR 3.3.1.11	≥ 6E-11 amp	≥ 1E-10 amp
b. Low Power Reactor Trips Block, P-7	1	1 per train	T	NA	NA	NA
c. Power Range Neutron Flux, P-8	1	4	T	SR 3.3.1.10 SR 3.3.1.11	≤ 30.4% RTP	≤ 30% RTP
d. Power Range Neutron Flux, P-9	1	4	T	SR 3.3.1.10 SR 3.3.1.11	≤ 50.4% RTP	≤ 50% RTP
e. Power Range Neutron Flux, P-10	1,2	4	S	SR 3.3.1.10 SR 3.3.1.11	≥ 7.6% RTP and ≤ 10.4% RTP	≥ 8% RTP and ≤ 10% RTP
f. Turbine Impulse Pressure, P-13	1	2	T	SR 3.3.1.1 SR 3.3.1.10 SR 3.3.1.11	≤ 11% turbine power	≤ 10% turbine power

(d) Below the P-6 (Intermediate Range Neutron Flux) interlocks.

(i) Above the P-9 (Power Range Neutron Flux) interlock.

Table 3.3.1-1 (page 6 of 8)
Reactor Trip System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	TRIP SETPOINT
18. Reactor Trip Breakers (j)	1,2	2 trains	R, V	SR 3.3.1.4	NA	NA
	3 (a) , 4 (a) , 5 (a)	2 trains	C, V	SR 3.3.1.4	NA	NA
19. Reactor Trip Breaker Undervoltage and Shunt Trip Mechanisms	1,2	1 each per RTB	U	SR 3.3.1.4	NA	NA
	3 (a) , 4 (a) , 5 (a)	1 each per RTB	C	SR 3.3.1.4	NA	NA
20. Automatic Trip Logic	1,2	2 trains	Q, V	SR 3.3.1.5	NA	NA
	3 (a) , 4 (a) , 5 (a)	2 trains	C, V	SR 3.3.1.5	NA	NA

(a) With RTBs closed and Rod Control System capable of rod withdrawal.

(j) Including any reactor trip bypass breaker that is racked in and closed for bypassing an RTB.