Dave Morey
Vice President
Farley Project

Southern Nuclear Operating Company
P.O. Box 1295
Birmingham, Alabama 35201
Tel 205.992.5131

SOUTHERN COMPANY
Energy to Serve Your World℠

September 21, 2000

Docket Number: 50-364

NEL-00-0236

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

Joseph M. Farley Nuclear Plant
Unit 2 Reactor Vessel Surveillance Capsule Pull Schedule Revision

Ladies and Gentlemen:

In accordance with the provisions of 10 CFR 50 Appendix H, Southern Nuclear Operating Company (SNC) hereby requests approval to implement a revised reactor vessel material surveillance program capsule withdrawal schedule for Farley Nuclear Plant (FNP) Unit 2. The proposed schedule (see Attachment 1) was included in WCAP-15171 Rev. 1, "Analysis of Capsule Z from the Alabama Power Company Joseph M. Farley Unit 2 Reactor Vessel Radiation Surveillance Program," which was submitted by our letter of March 10, 2000.

As noted in WCAP-15171 Rev. 1, the analysis of capsule Z has satisfied the reactor vessel material surveillance requirements of ASTM E185-82 for operation of FNP Unit 2 to best estimate end-of-license (36 Effective Full Power Years) neutron fluence. Removal and analysis of capsule V as currently scheduled is therefore no longer needed and the proposed surveillance capsule withdrawal schedule accordingly designates capsule V as "standby."

Approval of this proposed revision to the surveillance capsule withdrawal schedule is requested by December 1, 2000 in order to support finalization of the scope of the upcoming FNP Unit 2 refueling outage.

This letter contains no NRC commitments. Please advise if you have any questions or need additional information.

Respectfully submitted,

Dave Morey

DWD/maf: u2capsched.doc

Attachment:
Attachment 1 – Proposed FNP Unit 2 Surveillance Capsule Withdrawal Schedule

A008

cc: Southern Nuclear Operating Company
Mr. L. M. Stinson, General Manager – Farley

U. S. Nuclear Regulatory Commission, Washington, D. C.
Mr. L. Mark Padovan, Licensing Project Manager – Farley

U. S. Nuclear Regulatory Commission, Region II
Mr. L. A. Reyes, Regional Administrator
Mr. T. P. Johnson, Senior Resident Inspector – Farley

Attachment 1

Proposed FNP Unit 2 Surveillance Capsule Withdrawal Schedule

Capsule	Capsule Location	Lead Factor	Withdrawal EFPY [a]	Fluence (n/cm^2)
U	343°	3.31	1.10	6.44×10^{18} [b]
W	110°	2.86	3.97	1.85×10^{19} [b]
X	287°	3.41	6.41	3.19×10^{19} [b]
Z	340°	3.03	13.24	5.28×10^{19} [b, c]
V	107°	3.47	Standby	(d)
Y	290°	3.03	Standby	(d)

Notes:

a) Effective Full Power Years (EFPY) from plant startup.

b) Plant-specific evaluation.

c) This fluence is not less than once or greater than twice the peak EOL fluence.

d) Capsules V and Y will reach a fluence of 6.29×10^{19} n/cm^2 (E > 1.0 MeV), the 54 EFPY peak vessel fluence at approximately 13.8 and 16.2 EFPY, respectively.