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SUBJECT: Forwards addl info re operator action times assumed in steam generator tube rupture analyses for plant, per 900712 telcon.

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United States Nuclear Regulatory Commission ATTENTION: Document Control Desk Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT DOCKET NO. 50-400/LICENSE NO. NPF-63 STEAM GENERATOR TUBE RUPTURE REANALYSES

Gentlemen:

Carolina Power & Light Company (CP&L) hereby submits additional information concerning operator action times assumed in the Steam Generator Tube Rupture (SGTR) analyses for the Shearon Harris Nuclear Power Plant. This information, contained in Attachment 1, was requested by NRC during a telephone conversation on July 12, 1990.

By letter dated December 15, 1989, CP&L submitted the revised SGTR analysis along with a commitment to upgrade the Pressurizer Power-Operated Relief Valve (PORV) manual actuation components, controls, and power supplies to safety-grade for use in the SGTR event only. The plant modification to upgrade two of the Pressurizer PORVs to safety-grade for use in the SGTR event will be completed during the next refueling outage (Fuel Cycle 4).

If you have any questions on this submittal or require additional information on this subject, please contact Mr. J. H. Eads at (919) 546-4165.

Yours very truly,

Leonard I. Loflin

Manage

Nuclear Licensing Section

Attachment

JHE/jhe(porv)

cc: Mr. R. A. Becker

Mr. S. D. Ebneter

Mr. J. E. Tedrow

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Attachment 1

SGTR Operator Action Times

		February-A Simulator Da	ta (15 crews)	August 1989 Simulator Data ¹	Time Used
<u> </u>	Action	mean	mean + 2σ	mean	In Re-Analysis
1.	Identify and isolate ruptured S/G (both steam & FW/AFW lines)	10 min. 55 sec. ²	13 min. 35 sec.	9 min. 4 sec.	13 min. 35 sec.
2.	Operator action to initiate cooldown (open S/G PORV)	4 min. 55 sec. ³	8 min. 1 sec.	2 min. 16 sec.	8 min. 1 sec.
3.	Operator action to initiate RCS depressurization (from stabilized RCS temperature to open prz. PORV)	1 min. 26 sec.	2 min. 14 sec.	1 min. 37 sec.	2 min. 16 sec.
4.	Time to terminate SI (from close prz. PORV to closing BIT outlet valves)	n/a ⁴	N/A	2 min. 34 sec.	3 min. ⁵ 0 sec.

¹ Five simulator runs using 2 non-licensed crews and 3 licensed crews.

² Mean time of 10 min. 55 sec. based only on 11 simulator runs due to simulation problem modelling time to reactor trip during the first four runs; this only affected the timing of the Operator Action Number 1.

³ Mean time of 4 min. 55 sec. based only on 14 simulator runs due to an operator error on one crew which resulted in an abnormally short operator action time.

⁴ The simulator runs conducted in February - April 1989, modelled all 3 pressurizer PORVs as <u>inoperable</u>, therefore, timing of Operator Action Number 4 was not possible.

⁵ Due to the limited sample size, the bounding time was established by conservatively using the longest measured time.

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