



Carolina Power & Light Company

AUG 0 5 1985

SERIAL: NLS-85-238

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NO. 1 - DOCKET NO. 50-400
LOOSE PARTS MONITORING SYSTEM CALIBRATION

Dear Mr. Denton:

By letter dated October 28, 1983, Carolina Power & Light Company (CP&L) submitted a detailed description of the Metal Impact Monitoring System (MIMS) used at the Shearon Harris Nuclear Power Plant. The NRC reviewed this submittal and found it to be an acceptable response to the Draft Safety Evaluation Report Open Item No. 30, as documented on page 4-34 of the Safety Evaluation Report. In the October 28, 1983 submittal, Section II.A, Items 2 and 3, CP&L described the methods to be used to calibrate the accelerometers and conduct system tests. The calibration described in that submittal involved removing the accelerometers from their installed locations, mounting the accelerometers on a vibration calibrator and observing the output of the accelerometer. The system test consisted of impacting the reactor vessel or steam generator in the vicinity of the accelerometer and observing the response of the system. In lieu of these tests, CP&L will perform testing and calibration using a tool that provides a calibrated impact (e.g., 0.5 ft.-lbs.). The tool will be used to verify that each channel alarms upon an impact within a specified distance (e.g., 0.5 ft.-lbs. at a distance of 3 ft.). Such a test conforms with the recommendations of Regulatory Guide 1.133 Position C.a.(3) and provides a means to calibrate the accelerometers without removal of the monitors. We find that this change is acceptable because it provides the same level of assurance that the MIMS is operating properly and it provides a test which is in conformance with the recommendations of Regulatory Guide 1.133.

If you have any questions, please contact me.

Yours very truly,

S. R. Zimmerman
Manager

Nuclear Licensing Section

JHE/ccc (1672GAS)

cc: Mr. B. C. Buckley (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Dr. J. Nelson Grace (NRC-RII)
Mr. G. A. Schwenk (NRC-CPB)
Mr. Travis Payne (KUDZU)
Mr. Daniel F. Read (CHANGE/ELP)
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Dr. Richard D. Wilson
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 AUTH. NAME: ZIMMERMAN, S.R. AUTHOR AFFILIATION: Carolina Power & Light Co.
 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director

SUBJECT: Advises that calibr of accelerometers will be performed using tool which verifies channel alarms upon impact within specified distance, per Reg Guide 1.33. Actions acceptable to resolve SER Open Item 30.

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 ZIMMERMAN, S. R. Carolina Power & Light Co.
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	ELD/HDS1	1 0		IE FILE	1 1
	IE/DEPER/EPB 36	1 1		IE/DQAVT/QAB21	1 1
	NRR ROE, M. L.	1 1		NRR/DE/AEAB	1 0
	NRR/DE/CEB 11	1 1		NRR/DE/EHEB	1 1
	NRR/DE/eqb 13	2 2		NRR/DE/GB 28	2 2
	NRR/DE/MEB 18	1 1		NRR/DE/MTEB 17	1 1
	NRR/DE/SAB 24	1 1		NRR/DE/SGEB 25	1 1
	NRR/DHFS/HFEB40	1 1		NRR/DHFS/LQB 32	1 1
	NRR/DHFS/PSRB	1 1		NRR/DL/SSPB	1 0
	NRR/DSI/AEB 26	1 1		NRR/DSI/ASB	1 1
	NRR/DSI/CPB 10	1 1		NRR/DSI/CSB 09	1 1
	NRR/DSI/ICSB 16	1 1		NRR/DSI/METB 12	1 1
	NRR/DSI/PSB 19	1 1		NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1		REG FILE 04	1 1
	RGN2	3 3		RM/DDAMI/MIB	1 0
EXTERNAL:	24X	1 1		BNL (AMDTS ONLY)	1 1
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