DUKE POWER COMPANY POWER BUILDING 422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR. VICE PRESIDENT STEAM PRODUCTION

April 20, 1982 2 APR 28 A8 - 20

Mr. James P. O'Reilly, Regional Administrator U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, Suite 3100 Atlanta, Georgia 30303

Re: McGuire Nuclear Station Unit 1 Docket No. 50-369

Dear Mr. O'Reilly:

Please find attached a special report submitted pursuant to T.S.6.9.2 in fulfillment of the special report provision of T.S.3.5.2 (Action b) concerning the safety injection of January 11, 1982. This report is required to be submitted within 90 days in the event the Emergency Core Cooling System is actuated and injects water into the Reactor Coolant System, and is to describe the circumstances of the actuation cycles to date, and provide the current value of the usage factor for each affected safety injection nozzle whenever its value exceeds 0.70.

This event was also the subject of the previously submitted Reportable Occurrence Report RO-369/82-07.

Very truly yours,

William O. Parker, Jr. PAS

PBN/jfw Attachment

cc: Director Office of Management and Program Analysis U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Mr. P. R. Bemis Senior Resident Inspector McGuire Nuclear Station

Records Center Institute of Nuclear Power Operations 1820 Water Place Atlanta, Georgia 30339

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DUKE POWER COMPANY McGUIRE NUCLEAR STATION

Special Report Per T.S.3.5.2 (Action b) or T.S.3.5.3 (Action c) ECCS Actuation and Injection of Water into the Reactor Coolant System

Date of SI	Mode	Circumstances of the Actuation Cycle	Affected Safety Injection Nozzle(s)	Nozzle's Usage Factor Due to Event	Nozzle's Cumulative Usage Factor
9/14/81	1(27% power)	During performance of the loss of control room test, operators had trouble controlling the Auxiliary Feedwater System. An excessive amount of feedwater was pumped into the steam generators causing an abnormally fast cooldown rate and a safety injection actuation. (Reference Reportable Occurrence Report RO-369/81-151). SI duration: 3 min. 26 sec.	RCS Cold Leg Loop A RCS Cold Leg Loop B RCS Cold Leg Loop C RCS Cold Leg Loop D*	0.017 0.017 0.017 0.017	0.017 0.017 0.017 0.017
12/24/81	5	During calibration of the pressurizer pressure controller, technicians inadvertently initiated a low steam line pressure safety injection actuation on both trains. Due to a procedural deficiency, when technicians placed the second channel into the test position, SI blocks in the SSPS logic were cleared and valid indications of low steam line pressure initiated the SI. (Reference Reportable Occurrence Report RO-369/81-193). SI duration: N/A	RCS Cold Leg Loop A RCS Cold Leg Loop B RCS Cold Leg Loop C RCS Cold Leg Loop D	Insignificant Insignificant Insignificant Insignificant	0.017 0.017 0.017 0.017
1/11/82	1(75% power)	Due to extreme cold weather many instrument lines froze with instruments being declared inoperable, eventually leading to inadvertent actuation of engineered safety features causing safety injection, steamline isolation, and reactor and turbine trips. Two S/G "A" pressure instrumentation channels tripped when pressure was released from their impulse lines through manually cracked open test connections in an effort to prevent freezing by drawing warm steam line condensate through the lines. (Reference Reportable Occurrence Report RO-369/82-07). SI duration: 1 min. 54 sec.	RCS Cold Leg Loop A RCS Cold Leg Loop B RCS Cold Leg Loop C RCS Cold Leg Loop D*	0.017 0.017 0.017 0.017	0.034 0.034 0.034 0.034

^{*}Usage factor was calculated for this nozzle which was determined to be the "worst case", and applied to all other nozzles involved in the event.