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March 5, 1986

Docket No. 50-352 OL

Dr. Thomas E. Murley, Administrator
U. S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

SUBJECT: Special Report - Reactor Core Isolation Cooling (RCIC) System Actuations and Injections - Limerick Generating Station - Unit 1

REFERENCE: Technical Specifications 3.7.3.b and 6.9.2

Dear Dr. Murley:

This Special Report is being submitted pursuant to the requirements of Limerick Generating Station Technical Specification 3.7.3.b and 6.9.2. Specification 3.7.3.b states, "In the event the RCIC system is actuated and injects water into the reactor coolant system, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date." Technical Specification 6.9.2 states, "Special Reports shall be submitted to the Regional Administrator of the Regional Office of the NRC within the time period specified for each report".

This report concerns the occurrence of three Reactor Core Isolation Cooling (RCIC) system actuations and injections into the reactor coolant system of Unit No.1.

Below is a description of each of the RCIC system actuation and injection events.

On January 2, 1986 the Reactor Core Isolation Cooling (RCIC) system actuated and injected to the reactor pressure vessel. The actuation occurred manually in response to potential low water level during a planned turbine trip under the purview of STP-27.4 "Turbine Trip at Test Condition 6".

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Reactor parameters prior to the transient (test) were as follows:

Reactor Power -	3259 MWt
Reactor Coolant System Pressure -	1003 PSIG
Moderator Temperature -	542 deg. F
Core Flow -	98.9 Mlbm/Hr.
Feedwater Flow -	14.1 Mlbm/Hr.
Feedwater Temperature -	426 deg. F

RCIC injected twice for a total of approximately 6 hours. The RCIC flow was directed to the reactor vessel until the pump tripped on high reactor water level. The pump was subsequently restarted with the flow directed to the condensate storage tank. Once the reactor water level dropped to an acceptable level, the RCIC flow was again directed to the reactor vessel to control water level. Therefore, two actuations and injections occurred during the transient. These constitute the sixteenth and seventeenth RCIC actuations and injections to date.

On January 13, 1986 the Reactor Core Isolation Cooling (RCIC) system actuated and injected to the reactor pressure vessel. The actuation occurred manually in response to decreasing water level after a reactor trip to shut down to repair control valve #4.

Reactor parameters prior to the transient were as follows:

Reactor Power -	930 MWt
Reactor Coolant System Pressure -	931 PSIG
Moderator Temperature -	522 deg. F
Core Flow -	58.9 Mlbm/Hr.
Feedwater Flow -	3.59 Mlbm/Hr.
Feedwater Temperature -	322 deg. F

Average RCIC flow was approximately 600 gpm which operated continously for approximately 17 minutes. This constitutes the eighteenth RCIC actuation and injection to date.

Since RCIC operated as designed to control level, no corrective action is to be taken.

Should you require additional information, please do not hesitate to contact us.

Very truly yours,

W. T. Ullrich
Superintendent
Nuclear Generation Division

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See Attached Service List

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February 4, 1986