

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Powe 05000220  
 AUTH. NAME AUTHOR AFFILIATION  
 DISE, D.P. Niagara Mohawk Power Corp.  
 RECIP. NAME RECIPIENT AFFILIATION  
 IPPOLITO, T.A. Operating Reactors Branch 2

SUBJECT: Submits info re feedwater sys low flow controller. Changes to  
 sys design &/or operation needed to assure feedwater flow  
 can be controlled in low range. (up to 10% of rated feedwater  
 flow), per NUREG-0619 & GE rept NEDE-21821-A.

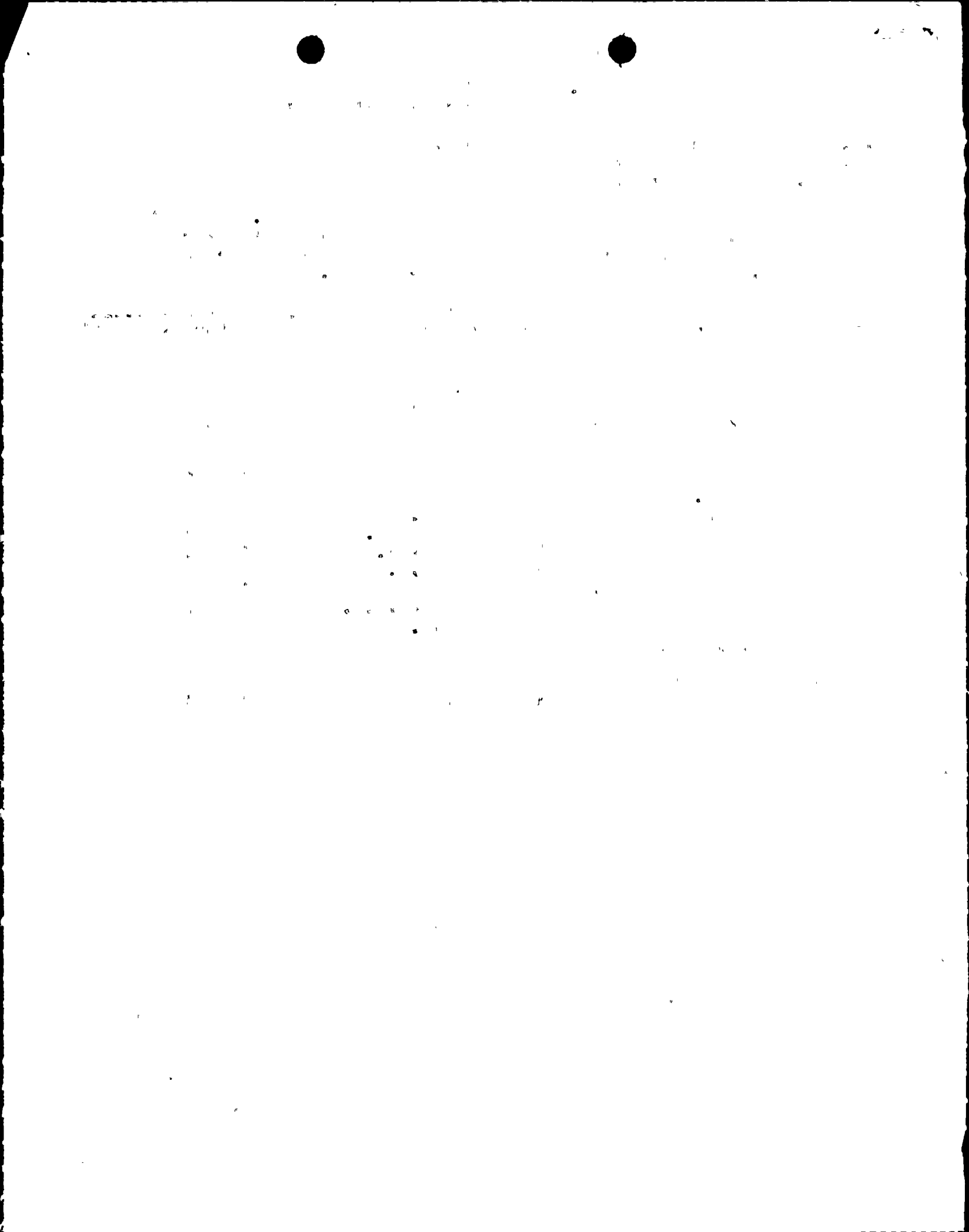
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 TITLE: BWR Feedwater Nozzles/Spargers or Control Rod Drive Return (USI A-10)

NOTES:

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September 8, 1981

Mr. Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Re: Nine Mile Point Unit 1  
Docket No. 50-220



Dear Mr. Ippolito:

Your letter of July 10, 1981 requested information regarding a feedwater system low flow controller at Nine Mile Point Unit 1. The information you requested is provided below.

As stated in our letter of December 29, 1980 to Mr. D. G. Eisenhut, Nine Mile Point Unit 1 currently utilizes a low flow controller in the feedwater system. In this system, feedwater flow to the feedwater nozzles is controlled by regulating the amount of bypass flow recirculated back to the condenser. With this system in operation, reactor water level can be maintained without on/off operation of the feedwater pumps.

We have recently evaluated this low flow controller with respect to the six functional requirements described in Section 3.4.4.3 of General Electric Report NEDE-21821-A (BWR Feedwater Nozzle/Sparger Final Report). Results of our evaluation indicate that changes to the system design and/or its operation will be required. These changes are needed to assure that feedwater flow can be controlled in the low flow range (up to 10% of rated feedwater flow) in accordance with the intent of NUREG-0619 and General Electric Report NEDE-21821-A. We are now in the process of evaluating alternate system and procedural modifications necessary to upgrade the present system. In addition, we will also evaluate new low flow controller systems such as the one described in the above General Electric report. Any required system

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modifications will be implemented by June 30, 1983. Procedural modifications will be implemented after they are developed and prior to June 30, 1983. The final plant operating procedures will reflect all system changes implemented by Niagara Mohawk to reduce thermal cycling of the feedwater nozzles.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

*Donald P. Dise*

Donald P. Dise  
Vice President Engineering

DKG:ja

