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 DISE, D.P.                      Niagara Mohawk Power Corp.  
 RECIP. NAME:                    RECIPIENT AFFILIATION  
 IPPOLITO, T.A.                    Operating Reactors Branch 2

SUBJECT: Describes plans to address verification of adequate core spray distribution in steam environs. Core spray evaluation will include analysis of spray performance of existing ring sparger & nozzles. Results due by 820630.

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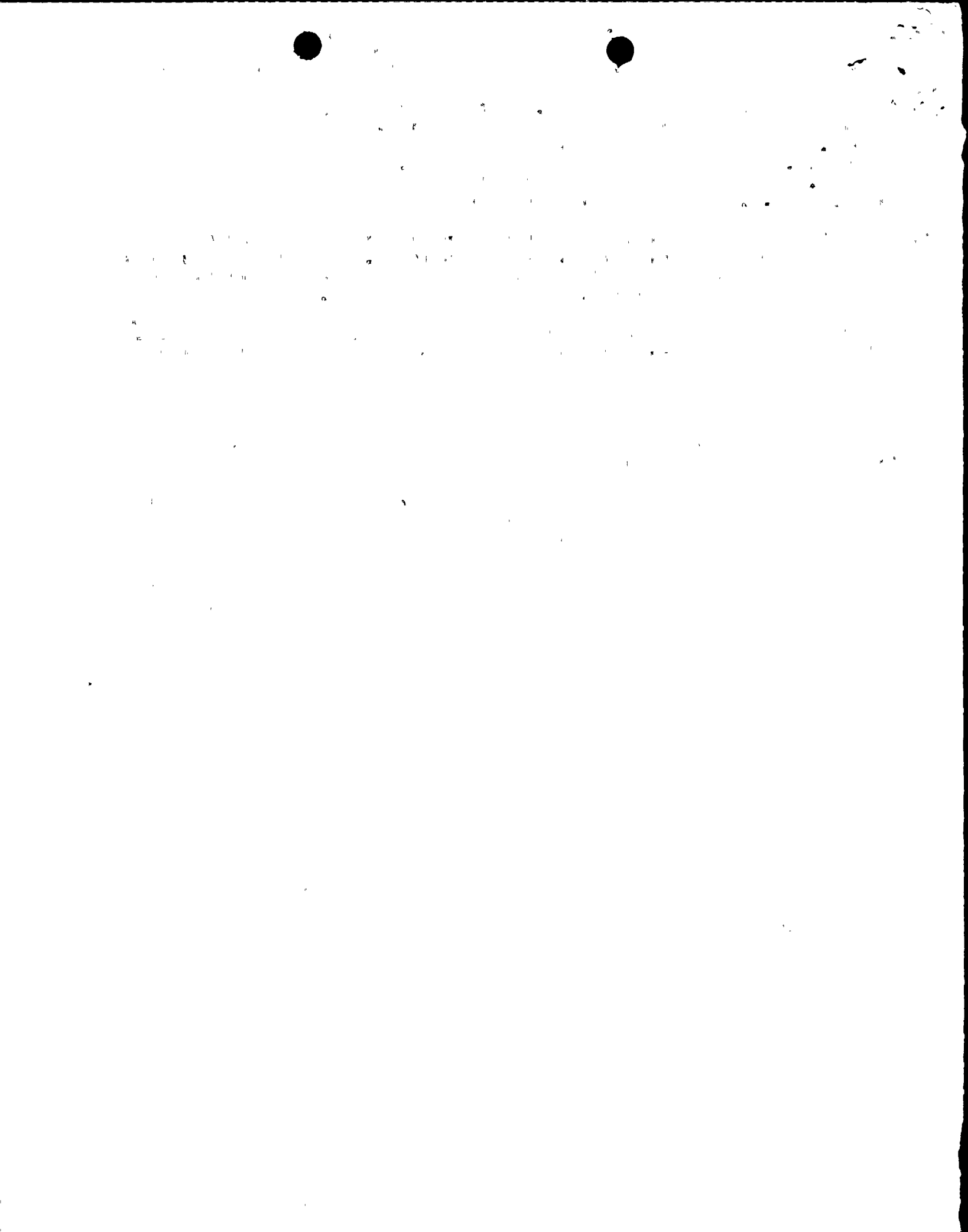
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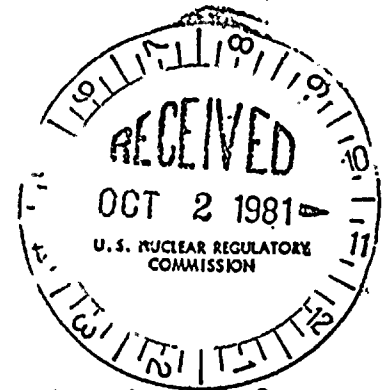
Donald P. Dise  
Vice President  
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NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

September 30, 1981

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

Re: Nine Mile Point Unit 1  
Docket No. 50-220  
DPR-63



Dear Mr. Ippolito:

In our May 22, 1981 letter, we committed to provide a description of our plans to address the verification of adequate core spray distribution in steam environments. This letter provides that information.

Niagara Mohawk is initiating a core spray system evaluation which will include the following major elements:

1. Analysis of the spray performance of the existing Nine Mile Point Unit 1 ring sparger and nozzles. The analysis will predict full scale spray distribution using existing individual nozzle data in air and steam. Multiple interaction effects will be estimated using data from tests on similar ring spargers. A best estimate of performance in the Nine Mile Point Unit 1 steam environment will be made.
2. Reevaluation of the original core spray design criteria by investigating radial peaking factors, steam cooling, and radiation heat transfer effects.

The results of this program will be submitted for your review by June 30, 1982.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

Donald P. Dise  
Vice President Engineering

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