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 AUTH. NAME - AUTHOR AFFILIATION
 TERRY, C.D. Niagara Mohawk Power Corp.
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SUBJECT: Provides results of exams of FW nozzle A, in response to commitment made in 910111 ltr providing in part, results of ISIs performed on four NMPNS, Unit 1 FW nozzles during 1988 refueling outage, per NUREG-0619.

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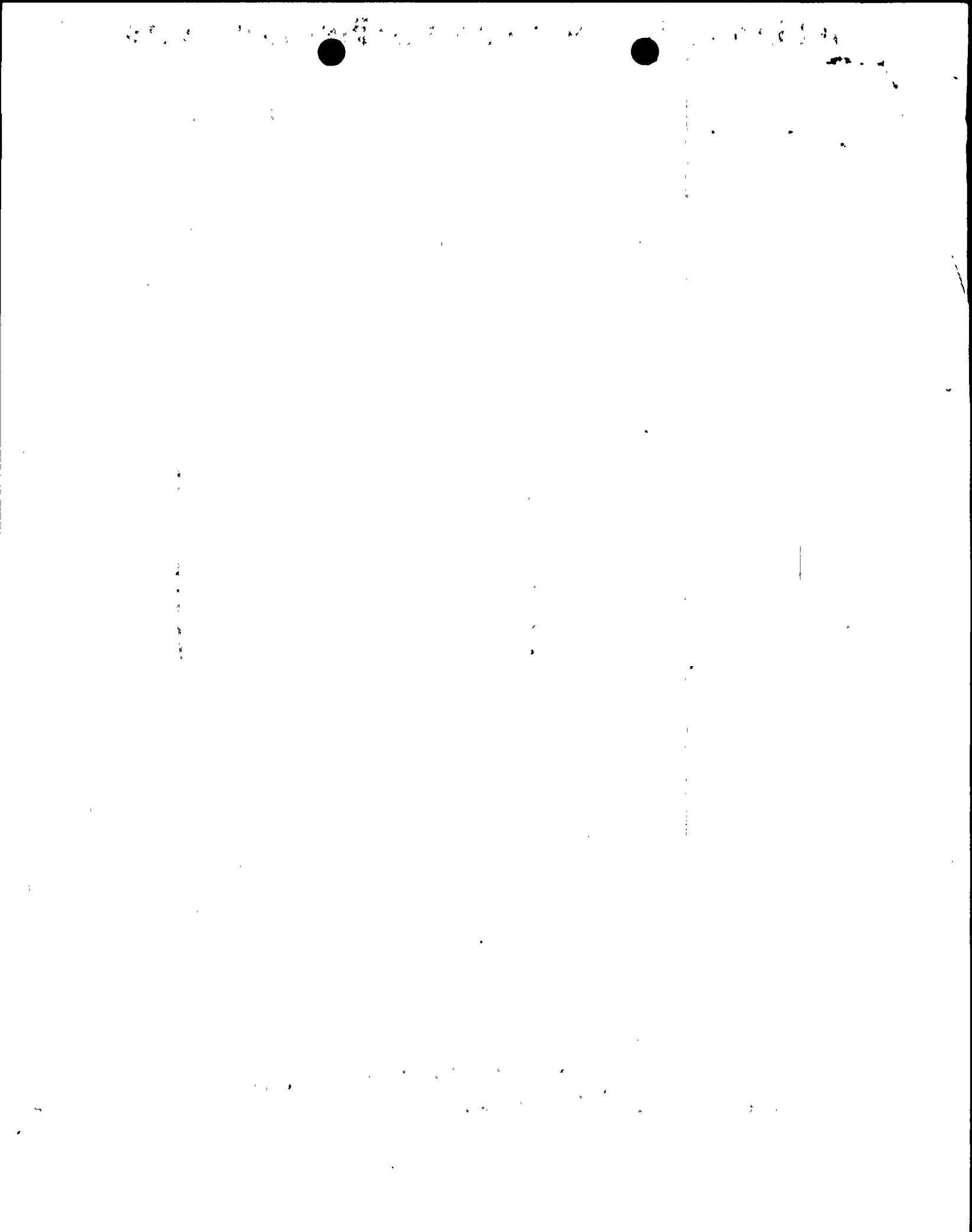
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August 25, 1993
NMP1L 0777U. S. Nuclear Regulatory Commission
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Docket No. 50-220
DPR-63

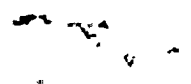
Gentlemen:

**SUBJECT: NUREG-0619, BWR FEEDWATER NOZZLE AND CONTROL ROD
DRIVE RETURN LINE CRACKING**

By letter dated January 11, 1991, Niagara Mohawk submitted to the Commission the information required by NUREG-0619, "BWR Feedwater Nozzle and Control Rod Drive Return Line Cracking." NUREG-0619 requires that licensees provide the Commission a detailed report of NUREG-0619 required inspections performed during an outage. Our January 11, 1991 letter, in part, provided the results of the inservice inspections performed on the four (4) Nine Mile Point Unit 1 feedwater nozzles during the 1988 refueling outage. As indicated in our letter, seven (7) "recordable" indications were identified on feedwater nozzle "A". These indications were attributed to two (2) separate flaws. Niagara Mohawk evaluated these flaws using fracture mechanics and determined that continued plant operation was acceptable. Also, Niagara Mohawk committed to examine feedwater nozzle "A" during the next refueling outage (1993). The purpose of this letter is to provide you the results of the examinations of feedwater nozzle "A".

The previous indications were found only in Zone 4 of feedwater nozzle "A". However, all four (4) zones of nozzle "A" were examined during Nine Mile Point Unit 1's 1993 refueling outage. Zones 1, 2 and 3 were examined with the same ultrasonic techniques used during our 1988 outage examinations. The examinations indicated no recordable indications. Zone 4 was also examined with the same ultrasonic technique as previously used. However, the calibration standard was modified to include code allowable 10% notches as well as the previously used 5% notches.

The Zone 4 indications detected in the 1988 outage were seen but not at recordable levels based on either the 5% or 10% notch calibrations. Electric Power Research Institute sizing techniques were then attempted to see if an adequate through-wall dimension could be attained on the previously recorded indications. Although a base signal could be seen, no tip signals were noted with either the Relative Arrival Time technique or the Absolute Arrival Time technique. Since no tip could be resolved, the source of these reflectors was



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determined to be from scratches or inside diameter (ID) surface irregularities and not from ID cracking. These inservice inspection results have been reviewed and approved by a Niagara Mohawk Level III examiner.

Very truly yours,



C. D. Terry
Vice President
Nuclear Engineering

JMT/mls
004169GG

pc: Mr. T. T. Martin, Regional Administrator, Region I
Mr. R. A. Capra, Director, Project Directorate I-1, NRR
Mr. D. S. Brinkman, Senior Project Manager, NRR
Mr. W. L. Schmidt, Senior Resident Inspector
Records Management



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