

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK300 ERIE BOULEVARD, WEST
SYRACUSE, N. Y. 13202

March 13, 1984

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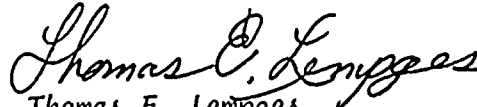
Dr. Thomas E. Murley
Regional Administrator
United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Re: Docket No. 50-220

Dear Dr. Murley,

In accordance with Nine Mile Point Nuclear Station Unit 1 Technical Specifications, we hereby submit the following 30 day Nonroutine Radiological Environmental Operating Report. This report is submitted in accordance with the required content of section 4.6.2 of the Appendix B Technical Specifications.

Very truly yours,



Thomas E. Lemppes
Vice President
Nuclear Generation

TEL/HJF/lo

cc: Director, Office of NRR (1 copy)

T.J. Perkins

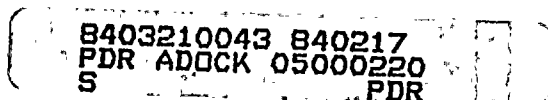
T.W. Roman

E.W. Leach

H.J. Flanagan

Enclosure

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NONROUTINE RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Nine Mile Point Nuclear Station Unit 1
Docket No. 50-220
February 17, 1984

INTRODUCTION

This Nonroutine Radiological Environmental Operating Report is submitted in accordance with Section 4.6.2.b of the Nine Mile Point Nuclear Station Unit 1 Technical Specifications, Appendix B (Environmental Technical Specifications). Section 4.6.2.b indicates that "if a confirmed measured level of radioactivity in any environmental medium exceeds ten times the control value, a written report shall be submitted".

DESCRIPTION

Samples of shoreline sediment were collected and analyzed in accordance with Appendix B specification 3.2.a and Table 3.2-1. The samples in question were collected in November of 1983. The indicator sample showed concentrations of Cs-137 and Sr-90 in excess of ten times the applicable control sample values for the same radionuclides. The control sample values were LLD values.

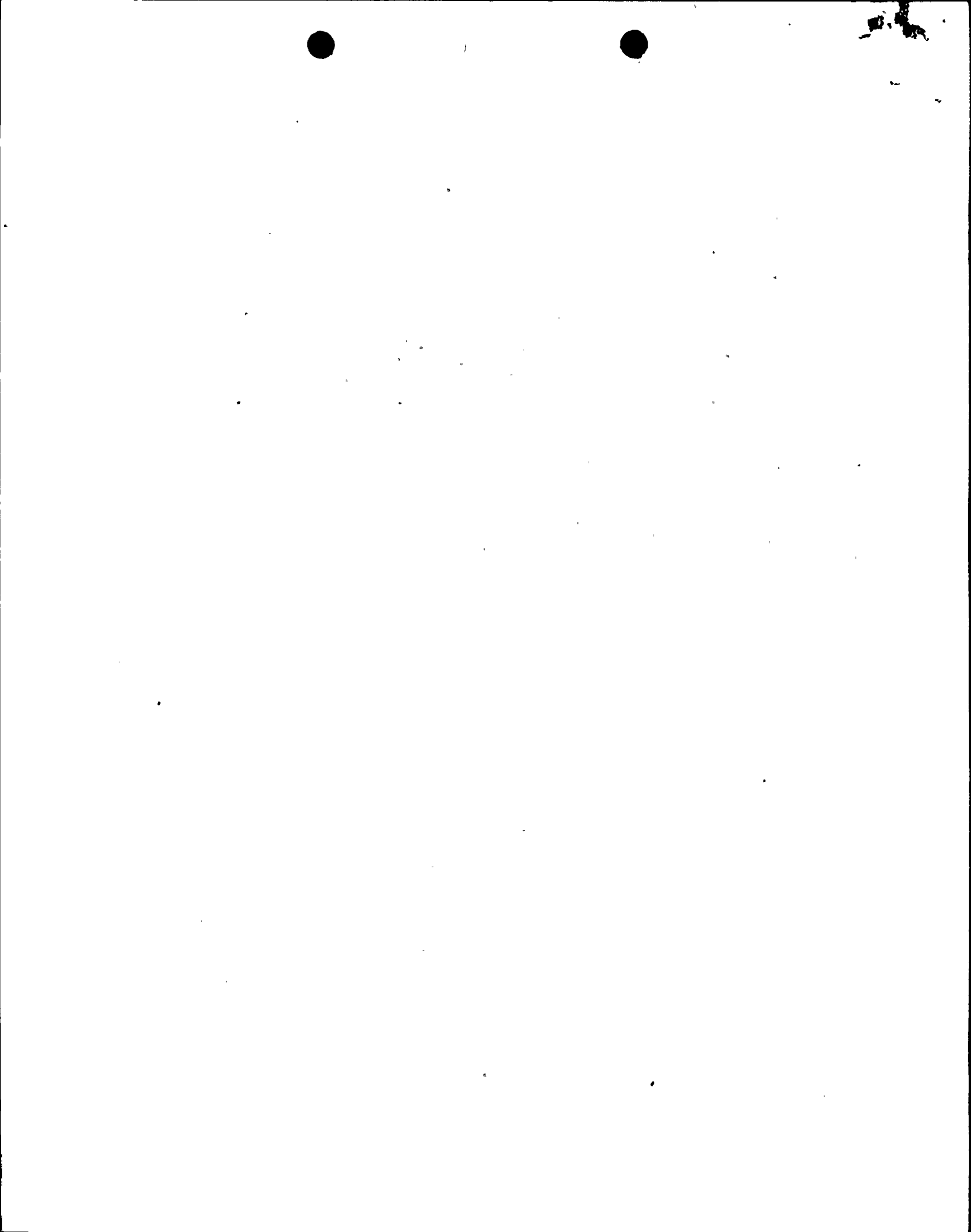
CAUSE

The presence of Cs-137 and Sr-90 in shoreline sediment is a result of past liquid effluent discharges at the site. All liquid effluent discharges at the site were well within Technical Specification limits during 1983 and previous to 1983.

CORRECTIVE ACTION(S)

No corrective action is anticipated for the following reasons:

1. Site liquid effluent discharges are and have been well within Technical Specification limits.
2. The shoreline area, where the sediment samples were obtained, is controlled by Niagara Mohawk security personnel. Therefore, access to the shoreline area is limited to members of the public. The dose consequences, as delineated below, are minimal.



IMPACT

The impact on members of the public, with respect to Cs-137 and Sr-90 concentrations greater than ten times the control result in shoreline sediment, is minimal. For purposes of illustration, however, the dose consequences could be evaluated by assuming that the shoreline area at Nine Mile Point is a beach area for public recreation. Using standard Regulatory Guide 1.109 methodology, the maximum exposed individual (teenager) would receive a whole body dose of 0.006 mrem per year and a skin dose of 0.007 mrem per year. An annual dose as a result of Sr-90 is not evaluated since any dose from this beta emitter is insignificant. Standard Regulatory Guide 1.109 methodology assumes an exposure time of 67 hours per year, a sediment mass of 40 Kg/m² dry (to a depth of 1 in.), a shore width factor of 0.3, a Cs-137 concentration of 1.81 ± 0.18 pCi/g - dry weight, and no radiological decay.

A summary of this reportable occurrence will also appear in the 1983 Annual Environmental Operating Report.

US NRC
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