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 AUTH. NAME    AUTHOR AFFILIATION  
 WHITE, L.D.    Rochester Gas & Electric Corp.  
 RECIP. NAME    RECIPIENT AFFILIATION  
 ZIEMANN, D.L.    Operating Reactors Branch 2

SUBJECT: Forwards evaluation of prestressed tendon forces in response to NRC 791120 ltr.

**SEE REPORTS.**

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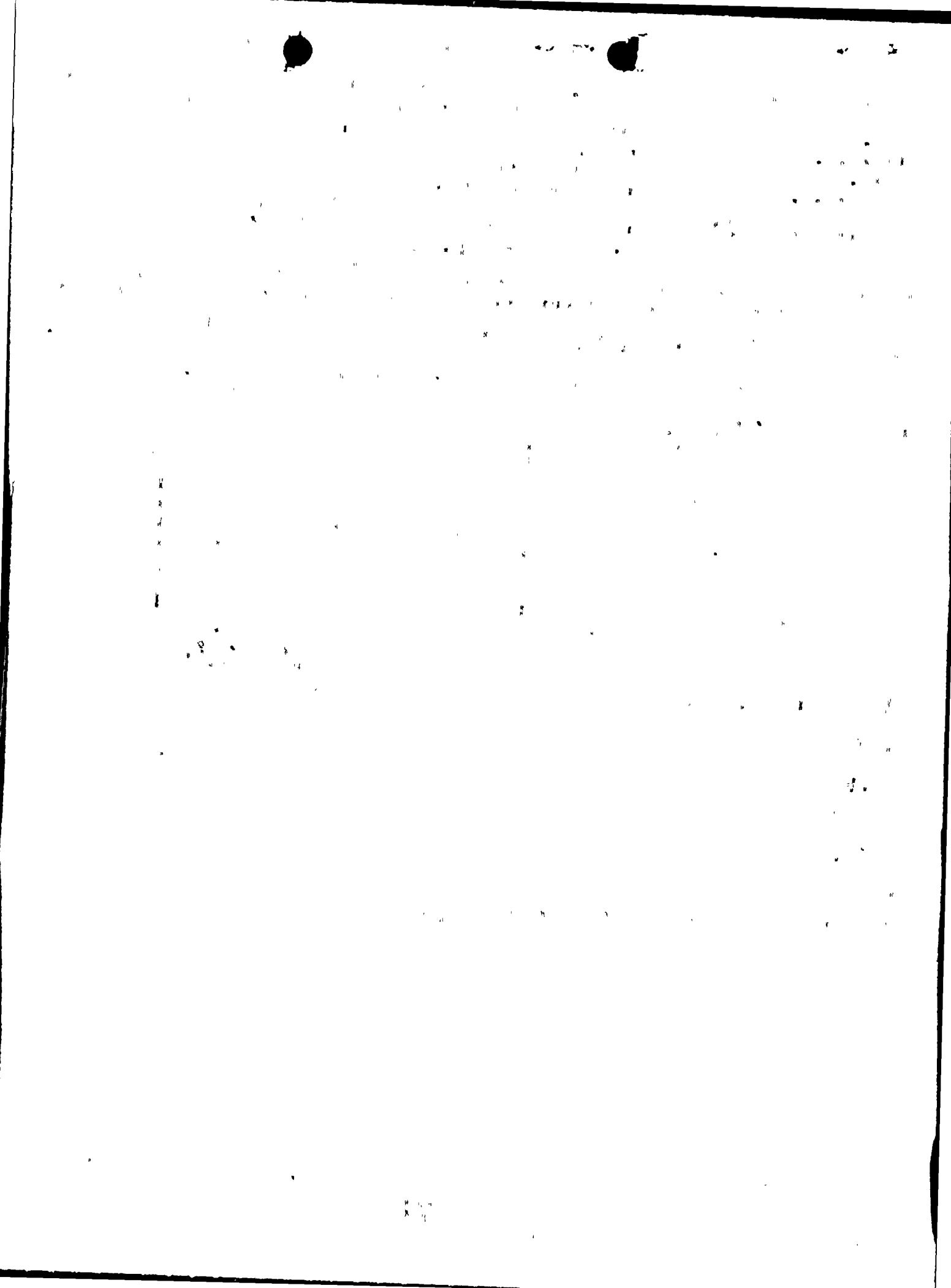
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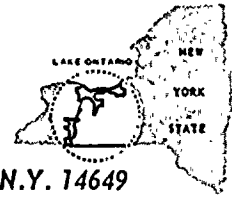
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LEON D. WHITE, JR.  
VICE PRESIDENT

TELEPHONE  
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December 12, 1979

Director of Nuclear Regulation  
Attention: Mr. Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Tendon Inspection and  
Lift-Off Verification  
Docket No. 50-244

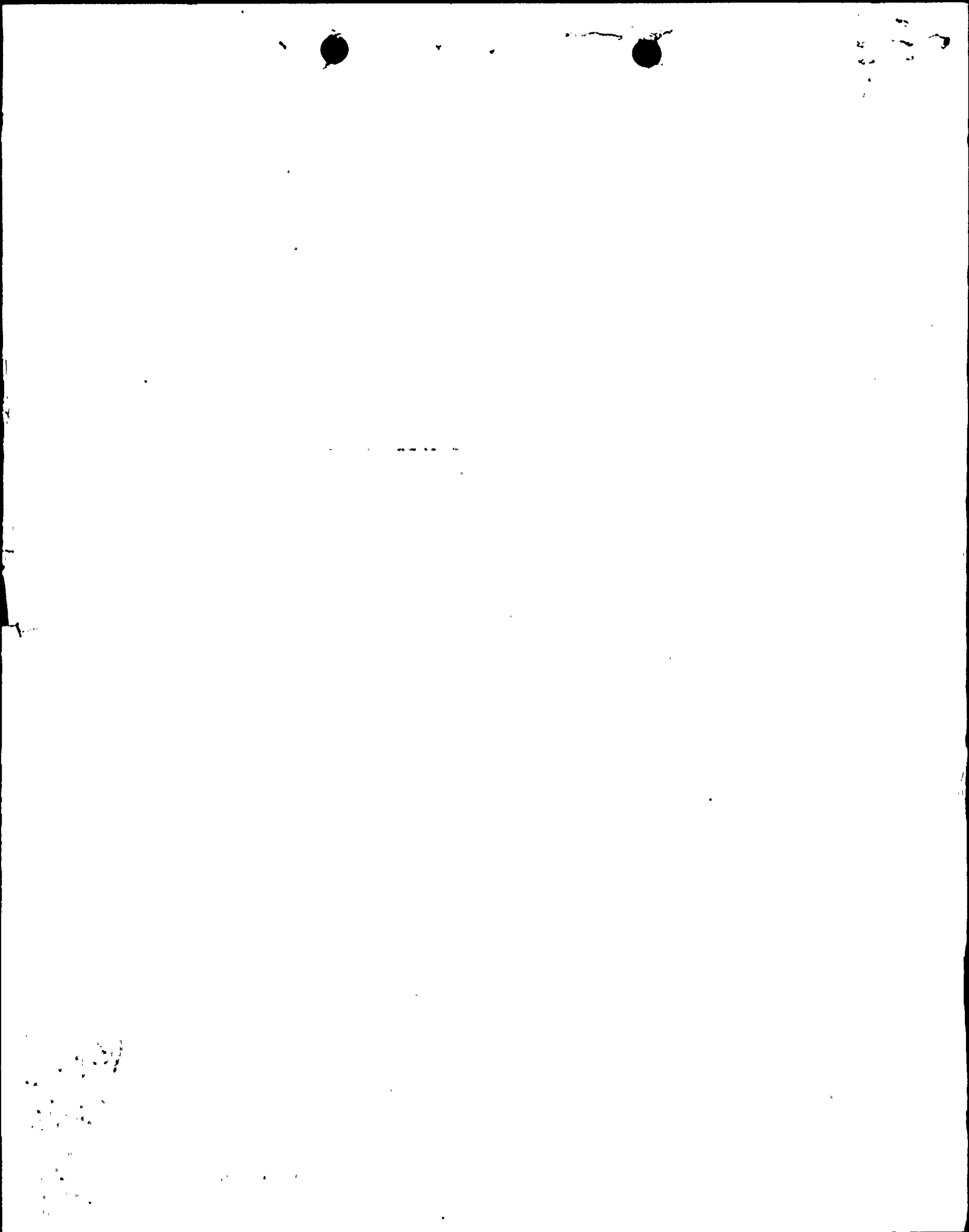
Dear Mr. Ziemann:

In response to your letter dated November 20, 1979, we have prepared the following information. Also, one copy of the report "Evaluation of Prestressed Tendon Forces - Robert E. Ginna Nuclear Power Station" will be sent as Attachment 1 to this letter.

1. The inspection of June 1977 was the eight year tendon surveillance required by the Technical Specification. Some of the data recovered during that surveillance, although acceptable based on the Technical Specification requirements, did not appear to correlate well with previous data. As a result of discussions with USNRC Regional I&E personnel and the containment designer, RG&E decided to perform a retest. The retesting was completed in October 1979. The results of an analysis of previous test data, as well as the retest, are contained in the attached report and Addendum I.
2. The results of all tests are contained in Table 1 of the report and in Table I-1 and I-2 of Addendum I to the report.
3. The report and Addendum I discuss possible causes of the tendon losses. The requirements at the time of the design did not include actual relaxation tests and the predictions made were only for the 40 year period. Interim losses were not evaluated. The current rate of loss appears to be compatible with 12% relaxation wire which the manufacturer states was the type manufactured at that time. The remedial action will be to retension

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DATE December 12, 1979  
TO Mr. Dennis L. Ziemann

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the tendons within the next year. A retest of 14 retensioned tendons would be made 6 months later. An evaluation of the losses in that period would determine the future inspection schedule.

4. Sections 4.4, page 7; 4.11, page 13; 6.0, page 16; and 2.3, page I-3 of the report Addendum discuss the rock anchors. It does not appear that these anchors are contributing in a significant manner to the tendon losses.
5. Table 1 of the report and I-1 and 2 of the Addendum indicate surveillance results. Figures 4.1 through 4.42 of the report plot these results against time and include plots of predicted behavior as well.

If there are any questions regarding this information, please contact us.

Very truly yours,



L. D. White, Jr.

LDW:mkv

xc: Mr. Boyce H. Grier, Director  
Office of Inspection and Enforcement  
Region I  
U.S. Nuclear Regulatory Commission  
(Letter and Attachment 1)

