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 AUTH. NAME: MAIER, J. E. AUTHOR AFFILIATION: Rochester Gas & Electric Corp.
 RECIP. NAME: CRUTCHFIELD, D. RECIPIENT AFFILIATION: Operating Reactors Branch 5.

SUBJECT: Forwards NUS Corp "Ginna Station Design Basis Flooding Study for Rochester Gas & Electric Corp," in response to NRC evaluation of SEP Topics II-3.A, II-3.B, II-3.B.1 & III-3.A re potential of local flooding.

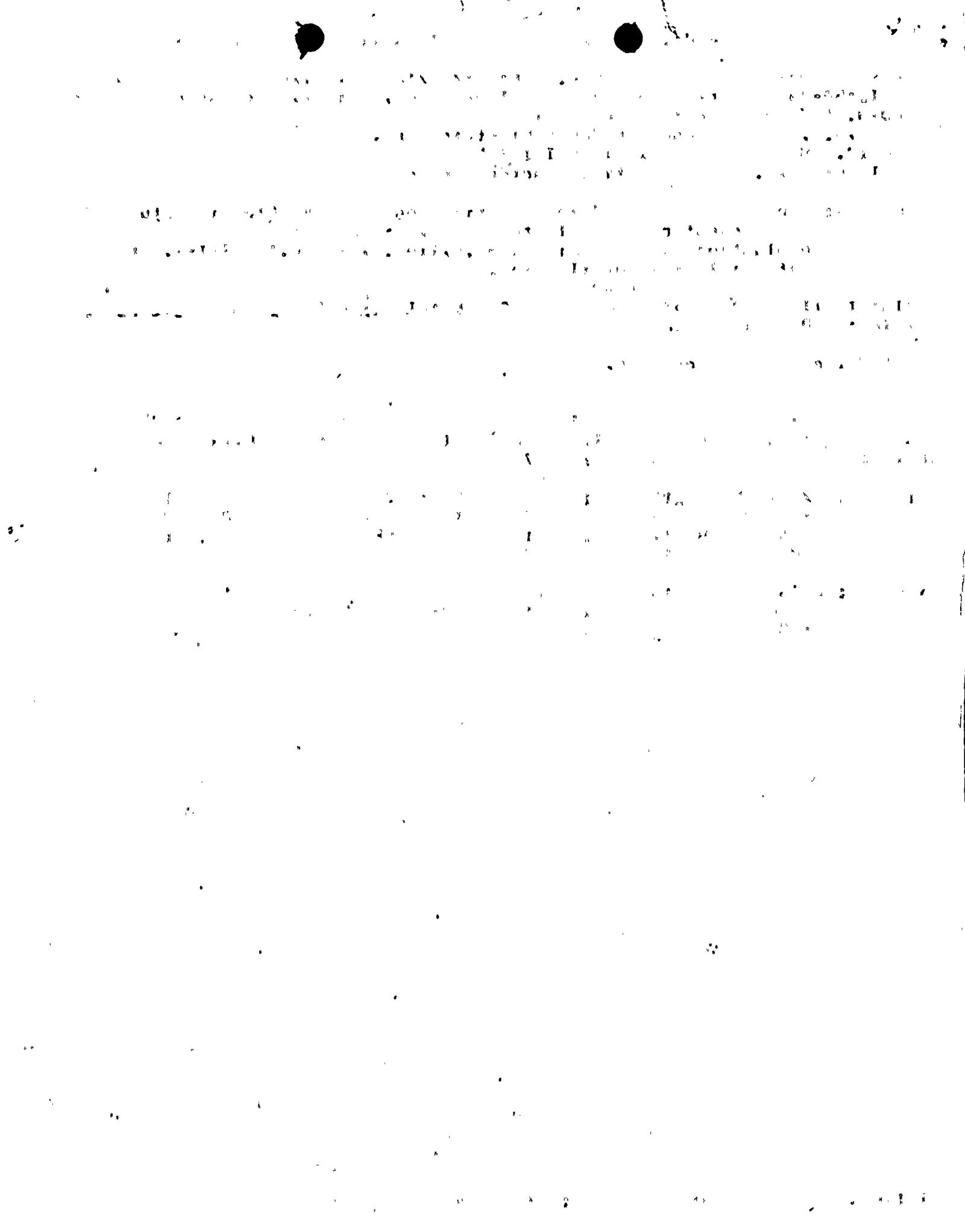
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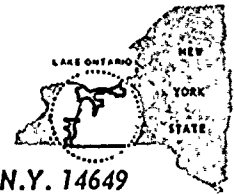




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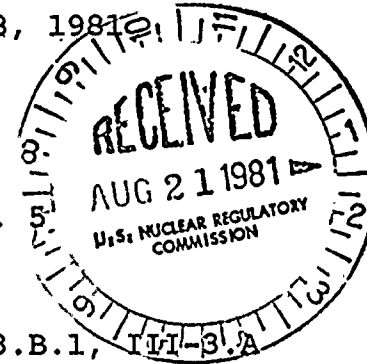
JOHN E. MAIER
VICE PRESIDENT

TELEPHONE
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August 18, 1981

Director of Nuclear Reactor Regulation
Attention: Dennis M. Crutchfield, Chief
Operating Reactors Branch No.
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555



Subject: SEP Topics II-3.A, II-3.B, II-3.B.1, III-3.A
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Crutchfield:

This letter is in response to the NRC Staff's evaluation of the potential for local flooding which was provided by your letter dated April 10, 1981 and to the Staff's evaluation of the effects of high water levels on plant structures which was provided by your letter dated March 24, 1981. The Staff's evaluations concluded that a "Probable Maximum Flood" (PMF) of 37,000 cfs would produce a water surface elevation of about 275 ft msl.

In response to the Staff's assessment, RG&E requested a contractor, NUS Corporation, to analyze the potential for local flooding as a result of storms varying from the 100 year precipitation to the Probable Maximum Precipitation (PMP) which would cause the PMF. Following field reconnaissance, analyses were performed, and the enclosed report has been prepared. It is shown that the Deer Creek channel is capable of carrying a 12-inch rainfall event, with an associated Deer Creek flow of 13,700 cfs, without exceeding a flood level of 270 ft msl. The estimated return period of this event is in excess of 10⁶ years.

Since plant grade in the area of Deer Creek is about 270 ft msl, we conclude that the present Ginna design is adequate to preclude flooding of safety-related structures, systems and components, and that no corrective actions are required. Further, we conclude that the referenced SEP topics should be considered resolved with no open items to be assessed during the integrated assessment.

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TO August 18, 1981
Mr. Dennis M. Crutchfield, Chief

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The basis for our conclusion regarding closure of the currently open items of local flooding is well founded in NRC documentation of the purpose of SEP. On November 17, 1977, the NRC Staff met with SEP utility representatives to describe SEP. (See a memo dated November 22, 1977 from R. D. Silver to D. Eisenhut.) The NRC Staff stated that an acceptable alternative to current criteria was that the "probability of event is sufficiently low" and/or the "consequences (more realistic) are sufficiently low." These alternative approaches were further documented in a letter dated December 1, 1977 from Victor Stello, Director, Division of Operating Reactors, to L. D. White, Jr., RG&E, and have been reiterated verbally by the NRC since then. Since the conclusions provided here are well within the scope enunciated by the NRC, the referenced SEP topics should be considered complete.

Very truly yours,


John E. Maier

Enclosure

