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

SUBJECT: Forwards assessment of SEP Topic III-4.D, "Site Proximity Missiles." Topic is complete for facility. No addl review is required during SEP integrated assessment.

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JOHN E. MAIER
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

April 16, 1981

Director of Nuclear Reactor Regulation
Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch No. 5
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: SEP Topic III-4.D "Site Proximity Missiles"
R. E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Crutchfield:

Enclosed is the Rochester Gas and Electric assessment for SEP Topic III-4.D, "Site Proximity Missiles". This assessment for the R. E. Ginna site is modeled upon the NRC's assessment of this topic for Consumers Power Company's Palisades plant, issued by letter from Dennis M. Crutchfield, NRC, to Mr. David P. Hoffman, CPCo, dated January 13, 1981. The majority of the information for this topic was derived from the SEP Topic Assessment II-1.C, "Potential Hazards Due to Transportation, Industrial, Institutional, and Military Facilities." This topic assessment was transmitted by letter from John E. Maier, RG&E, to Dennis M. Crutchfield, NRC, dated April 15, 1981.

Very truly yours,

John E. Maier

Attachment

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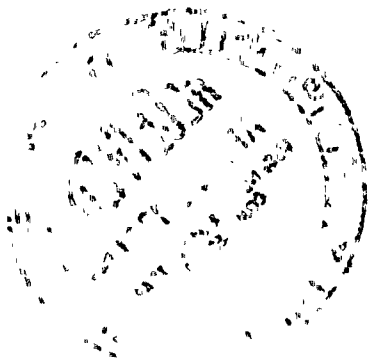

SEP Topic III-4.D - Site Proximity Missiles, R.E. Ginna Nuclear Power Plant

The safety objective of this topic is to ensure that the integrity of the safety-related structures, systems, and components would not be jeopardized due to the potential for a site proximity missile. The review was conducted in accordance with the guidance given in Standard Review Plan Sections 3.5.1.5, 3.5.1.6, and 2.2.3.

Description and Evaluation

The potential for hazardous activities in the vicinity of the Ginna plant has been addressed in SEP topic II-1.C, "Potential Hazards due to Industrial, Transportation, Institutional and Military Facilities". As indicated therein, there is little industrial activity near the plant. The distances to the nearest land transportation routes are such (about 1700 feet to the nearest highway, and 3 1/2 miles to the nearest railroad) that the risk associated with potential missiles from transportation accidents on these routes are within the SRP 2.2.3 guidelines. Similarly, the nearest large gas pipelines are about six miles from the plant, and do not pose a missile threat to the plant. Major Lake Ontario shipping routes are also sufficiently far away (about 23 miles) so as not to present a credible missile hazard from lake traffic. There are no military facilities or activities near the plant which would create a missile hazard.

The review of SEP Topic II-1.C also evaluated the potential for aircraft becoming a missile hazard, both in connection with the operation of the Williamson Flying Club Airport, which is about ten miles ESE of the plant, and due to commercial air traffic in and out of Rochester via federal airways V2N and V2, which are 2 1/2 and 10 miles from the plant site.

As evaluated in Topic II-1.C, it was determined that, since the Williamson Flying Club Airport expected a maximum of only 5000 operations per year, and is about 10 miles from the site, the criteria in III.3.a and III.3.b of SRP 3.5.1.6 were met, and there is no need to determine the probability of an aircraft crash into the plant. Further, the hazard to the plant from commercial aircraft use of airways V2 and V2N was shown to be only 5.1×10^{-8} and 1.4×10^{-8} per year, respectively. No danger to the plant from commercial airline traffic is thus expected.

Conclusion

Since current regulatory criteria are met with respect to SEP Topic III-4.D, "Site Proximity Missiles", it can be concluded that this topic is complete for the R. E. Ginna site. No additional review for this topic is required during the SEP integrated assessment.

References

1. Rochester Gas and Electric Corporation, Robert Emmett Ginna Nuclear Power Plant Unit No. 1 - Final Facility Description and Safety Analysis Report (FSAR), Sections 2.2 and 2.5.
2. Rochester Gas and Electric Corporation, R. E. Ginna Nuclear Power Plant Unit No. 1, Environmental Report, Volume 1, Sections 2.1 and 2.2.
3. Nuclear Regulatory Commission NUREG-75/087, Standard Review Plan, Sections 2.2.1, 2.2.2, 2.2.3, and 3.5.1.6, September 1975.
4. Code of Federal Regulations, Section 10, Part 100 (10 CFR 100).
5. Sterling Power Project Nuclear Unit No. 1, Preliminary Safety Analysis Report Addendum, Rochester Gas and Electric, Volume 1, Sections 2.1 and 2.2.
6. U.S. Nuclear Regulatory Commission Regulatory Guide 1.91, Rev. 1, February 1978.
7. Letter, John E. Maier, RG&E, to Dennis M. Crutchfield, NRC, SEP Topic II-1.C, "Potential Hazards Due to Transportation, Industrial, Institutional and Military Facilities", April 15, 1981.