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WHITE,L.D. Rochester Gas & Electric Corp.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation
ZIEMANN,D.L. Operating Reactors Branch 2

SUBJECT: Forwards proprietary rept, "Three-H Fire Exposure Test Per ASTM E-119 w/Hose Stream,QC Qualification Test of Normal Density CT-18 Silicone Foam Vs Light Density Silicone Foam Comparion." Rept withheld (ref 10CFR2.790).

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H. Smith - L+R

see Prop Rpts:
1) 3hr fire exposure test (8001020551)
2) Fire Endurance test on Penetration Seal Systems in Precast Concrete Floor Utilizing Silicone Elastomers (8001020562)
3) Fire Endurance Tests on Silicone Foam, Ceramic Fiber, Cellular Concrete & Marinite XL Panel Penetration Seals in Masonry Floors (8001020574)
4) Fire Test on BISCO SE-20 Silicone Foam & Radiation Shielding Penetration Seals in Masonry Wall Design (8001020582)

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NOTE TO NRC AND/OR LOCAL PUBLIC DOCUMENT ROOMS

The following item submitted with letter dated 12-21-79 from RG+E is being withheld from public disclosure in accordance with Section 2.790.

PROPRIETARY INFORMATION

Rpts dealing with Fire Endurance

Don Lowlow
DLB

Distribution Service's Branch

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MEMORANDUM FOR: TERA Corp.

FROM: US NRC/TIDC/Distribution Services Branch

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LEON D. WHITE, JR.
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

December 21, 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, DC 20555

Subject: Robert E. Ginna Nuclear Power Plant, Unit 1, Fire Protection Safety Evaluation Report, Section 3.2.5 (Electrical Cable Penetrations)

Dear Mr. Ziemann:

In accordance with your letter dated February 14, 1979 and the Fire Protection Safety Evaluation Report, dated February 14, 1979, RG&E has reviewed the applicability, to the Ginna Plant, of the results of electrical cable penetration fire resistance tests which have been performed on materials and construction similar to those being used in the Ginna Plant.

Cable penetrations at R.E. Ginna Nuclear Plant were surveyed, and sealed in late 1975 by Brand Industrial Services, Inc. (BISCO) using proprietary materials and methods. The penetrations installed at that time utilized BISCO SF-20 silicone foam. The qualification of these seals is based on the following test reports.

1. Factory Mutual Research, Report #24963, August 5, 1975.

   This test was performed on BISCO SF-20 silicone foam and radiation shielding penetration seals in masonry wall. The test was performed in accordance with ASTM E-119 without hose stream.

2. Factory Mutual Research, Report # J.I. 1A5Q6.AC, May 10, 1978.

   This test was performed on masonry floor seals constructed with BISCO SF-20 foam, ceramic fiber and Marinite XL panel, and cellular concrete. The test was performed in accordance with ASTM E-119 and included hose stream test.

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The listed fire resistance tests are applicable to all penetration seals installed during the 1975 program, with the exception of the floor penetration seal located in the northwest corner of the relay room. This fire barrier is not within the size range of the reported test configurations above, and is being reviewed for qualification applicability.

Cable penetrations at R.E. Ginna were again surveyed in 1979, and all new cable penetrations and penetrations with damaged seals are being sealed by Chemtrol Corporation using proprietary methods and materials. These seals are constructed with Chemtrol Corporation CT-18 silicone foam. The qualification of these seals is based on the following reports;

1. Factory Mutual Research, Report # 26543, October 28, 1975.

   This test was performed on silicone foam seals in floor penetrations. The test was performed in accordance with ASTM E-119 without hose stream.

2. Southwest Research Institute, Report CTM-0200, January 17, 1979.

   This test was performed on silicone foam seals in floor penetrations. The test was performed in accordance with ASTM E-119 with a hose stream.

   All penetrations being sealed in the current program are within the range of configurations in these reports.

The configurations of the cable tunnel entry ways are not within the scope of the reports referenced above. These locations are being conceptually reevaluated in light of the required ASTM E-119 qualification.

Very truly yours,

L D White, Jr.

L. D. White, Jr.