



file
NEW
YORK
STATE

ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649

LEON D. WHITE, JR.
VICE PRESIDENT

TELEPHONE
AREA CODE 716 546-2700

May 19, 1975

Mr. Donald F. Knuth, Director
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Washington, D. C. 20555

Subject: Notice of overexposure of individuals and failure to document
air mask training
R. E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

Dear Mr. Knuth:

Notice is hereby given, as required by 10 CFR 20.405, of the exposure of six individuals to concentrations of radioactive material in excess of the maximum permissible concentrations allowed by our Technical Specification, Section 6.4.2. In addition, related to the same activity, there was an apparent violation to Technical Specification Table 6.4-1, footnote 2bi which involved three additional individuals.

*Failure to use proper mask
excessively contracted*
On 18 April 1975, while plugging tubes in the "A" Steam Generator, six individuals entered the tent around the steam generator manway using masks for which the protection factor was 100, into an atmosphere which was 770 times mpc (Appendix B, Table I, Column 1 of 10 CFR 20). All involved individuals were given whole body counts after their exposure to determine the uptake of radioisotopes and only one showed an uptake above maximum permissible limits. The others ranged between 1 and 20% of permissible burden. All except one had received training in the use of masks and had used them properly prior to this incident. All signed the Special Work Permit issued for use during blasting, indicating they understood the requirements for the job which included use of a supplied air mask. Three of the people are RG&E employees and three were contracted through Westinghouse.

not properly trained
With reference to Technical Specification Table 6.4-1, footnote 2bi, three other persons used the proper masks but without documented mask use training. None of these persons showed above permissible body burdens by whole body counts.

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DATE May 19, 1975

TO Mr. Donald F. Knuth, Director

Of the nine individuals reported, eight individuals had only a technical exposure. For these the results of whole body counts show less than 40 MPC hours of exposure to radioactive materials. Therefore no dose estimates are included in this report.

Whole body counts will be continued on the one individual who showed above permissible body burdens on his initial count. As of this date, he has been counted six times since the exposure. The 4/25/75 count (7 days after exposure) represents the material which is slowly removed from the lung and an amount of iodine which would result in a total thyroid dose of 610 mRem. The dose to the lung from Cobalt and Zirconium is 9.6 Rem, for the first year, based on the standard biological half-life of 120 days. This value may be revised on the basis of additional body counts.

Analysis of airborne radioactive materials of a sample taken during explosive plugging on 18 April 1975 gave the following analysis:

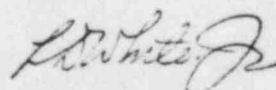
Co 60 - 4.2×10^{-6}	$\mu\text{ci/cc}$	Mn 54 - 2.5×10^{-7}	$\mu\text{ci/cc}$
Co 58 - 3.4×10^{-6}	" "	I 131 - 8.1×10^{-8}	" "
Nb 95 - 3.0×10^{-6}	" "	Fe 59 - 6.6×10^{-8}	" "
Zr 95 - 1.7×10^{-6}	" "	N 239 - 4.4×10^{-8}	" "
Cr 51 - 1.6×10^{-6}	" "	BaLa 140 - 7.2×10^{-9}	" "
Ru 103 - 1.1×10^{-6}	" "	Cs 134 - 2.2×10^{-9}	" "
Ce 144 - 6.8×10^{-7}	" "		
Ce 141 - 3.3×10^{-7}	" "	Mixed MPC - 2.14×10^{-8}	$\mu\text{ci/cc}$

The radiation in the work area around the steam generator manway was between 50 and 100 mRem/hr. Careful radiation dose records were maintained on all who worked in this area.

Corrective Actions:

1. Check sheet for mask use will be incorporated.
2. Escorts and supervisors will be advised of the necessity for closer supervision of contract personnel when they are working in high radiation, and airborne activity areas or on jobs in which radiological conditions are changing.

Very truly yours,



L. D. White, Jr.

Att.

xc: Mr. J. O'Reilly

May 19, 1975

<u>Name</u>	<u>Social Security Number</u>	<u>Date of Birth</u>
Thomas Everett	159-42-5758	6-19-51
Vincent P. Burke	183-26-4963	3-28-35
John E. Duvall, Jr.	197-38-2799	6-18-46
Larry G. Brodie	061-42-2574	4-5-49
James F. Wheeler	079-42-7803	7-6-51
James R. Davenport	111-18-2317	8-27-27
Michael W. Cox	177-42-7903	7-9-50
Charles H. Courty	162-20-7346	9-11-26
James L. Hartley	278-40-0327	9-22-44

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
631 PARK AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

REVISED DRAFT 8/15/75

No. 75-

FOR IMMEDIATE RELEASE

Contact: Karl Abraham

(.....)

Tele : (215) 337-1150

NRC PROPOSES TO FINE ROCHESTER GAS & ELECTRIC CORPORATION \$10,000 FOR
ALLEGED VIOLATIONS OF WORKER RADIATION PROTECTION REGULATIONS

The Director of Inspection and Enforcement of the Nuclear Regulatory Commission has proposed fining the Rochester Gas & Electric Corporation \$10,000 for alleged noncompliance with NRC regulations governing radiation protection of workers at RG&E's R. E. Ginna Nuclear Power Plant in Wayne County, New York, relating to an incident that occurred during April 1975.

The incident allegedly resulted in a worker being exposed to concentrations of airborne radioactivity, in restricted areas where he and others were working, in an amount that exceeded permissible limits contained in NRC regulations. The notice of violation sent by NRC to the company also alleged it failed to use prescribed respiratory protective equipment of a proper type and failed to assure proper supervision and training of personnel who were to use this equipment.

In a letter to the company, Dr. Donald F. Knuth, Director of Inspection and Enforcement, asked the company to inform NRC of the steps which have been or will be taken to "strengthen management control" of the radiation safety program at the Ginna plant.

The company also was informed that it has 20 days from the receipt of Dr. Knuth's letter to either pay the proposed civil penalty or to protest it in writing, stating its reasons why all or part of the proposed fine should not be imposed.

Officials of the State of New York have been informed of the proposed action.

(More)



50-244
map

The Ginna plant has an electrical generating capacity of 490,000 kilowatts and began commercial service in July 1970.

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(Note: This announcement also was issued today at NRC Headquarters in Washington, D. C.)

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May 1974
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AS sent to OGC
by DFK 11-6-74
in by L&PS
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11-6-74

Mr. Ralph Nader
2030 "P" Street, N.W.
7th Floor
Washington, D. C. 20036

Dear Mr. Nader:

I am responding to your letter of July 27, 1974, in which you asked for information concerning the circumstances surrounding the exposure of workers to radiation at the Consolidated Edison Company of New York's Indian Point 1 and Rochester Gas and Electric Company's R. E. Ginna nuclear facilities.

As discussed in Mr. Nader's September 5, 1974 letter to you, we have concluded that the last paragraph of your letter represents a request for action pursuant to the provisions of 10 CFR 82.296. To provide current information, a special inspection of the personnel monitoring procedures and of the circumstances surrounding the several exposures at Indian Point 1, was conducted on August 19 through 22, 1974; a copy of the report of this inspection is attached. Additionally, we reviewed the enforcement action which was taken with respect to the several exposures referenced in your letter. It was determined that enforcement action in the form of a notice of violation dated April 23, 1974, was taken for those exposures which were reported by the licensee on November 23 and December 13 and 18, 1973, and February 14, 1974; the notice of violation referenced the exposures that were reported on September 14 and June 18, 1973.

No specific enforcement action was taken with respect to the exposures which were reported on September 14, June 18, May 17 and April 16, 1973, and November 22, 1972. In his reports of these overexposures, the licensee described the violations, the cause of the violations, and the corrective actions to be taken. Under our procedures then in effect, a notice of violation was not issued to reiterate the violation since it was already a matter of public record as was the licensee's description of the cause and the corrective actions to be taken. In his letter of May 16, 1974, in reply to our notice of violation dated April 23, 1974, the licensee described his corrective actions. The inspection of August 20-22, 1974, verified that these actions had been implemented.

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