



ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14604



KEITH W. AMISH  
SENIOR VICE PRESIDENT  
ELECTRIC AND STEAM

TELEPHONE  
AREA CODE 716 546-2700

July 21, 1971

Mr. Lawrence D. Low  
Director, Division of Compliance  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

Dear Mr. Low:

Notice is hereby given as required by 10 CFR 20.405 of the exposure of an individual to a radiation dose in excess of 3 Rem in one quarter. The individual has been notified as required by 10 CFR 20.405b.

The individual is a steamfitter and received the following film badge doses:

April	.470 Rem
May	1.450 "
June	<u>1.170</u> "
	3.090 Rem total for quarter

Dosimeter records kept during this period showed the following:

April	.401 Rem
May	.962 "
June	<u>1.329</u> "
	2.692 Rem total for quarter

On June 21, 1971, upon receipt of the May film badge report, the individual was restricted from controlled areas. His June badge was sent in immediately and the report received on June 29, 1971. All badges were verified by recheck and were correct as read.

As a steamfitter, much of his work involves handling contaminated materials in radiation fields. Most of his exposure in June (1136 MR) occurred while installing an air eductor on the distillate line from the waste evaporator prior to testing the unit. This covered a two week period in early June.

The large difference between his May dosimeter and his film badge reading is of concern. Dosimeter readings are adjusted by a previous experience correlation factor to provide a safety margin. This adjustment factor to the dosimeter reading is developed from film badge results but in this particular case it resulted in a lower value than actual. When the May badge report was

8304150123 710810  
PDR ADOCK 05000244  
S PDR

COPY SENT REGION

10762

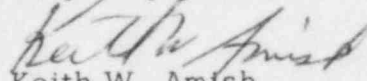
DATE July 21, 1971  
TO Mr. L. D. Low, Director  
Division of Compliance, AEC

received, the man had already worked in the controlled area for three weeks in June, ultimately resulting in film badge totals for the quarter exceeding 3 Rem. Other steamfitters working in the same areas do not show the large degree of difference (0.962 versus 1.450 Rem) in the month of May.

The receiving of the report on film badges in 2 to 4 weeks after they are submitted is a real problem.

We have arranged for a demonstration for the potential use of Thermal Luminiscent Dosimeters which would allow immediate exposure readouts. In the meantime, individuals approaching exposures of 2.5 Rem for the quarter will be restricted from controlled areas temporarily, pending verification of their actual exposures recognizing the delay in film badge processing.

Very truly yours,

  
Keith W. Amish

xc: Mr. Robert W. Kirkman, Director  
Region I, Division of Compliance  
U. S. Atomic Energy Commission  
970 Broad Street  
Newark, New Jersey 07102