



Consumers
Power
Company

Palisades Nuclear Plant: Route 1, Box 178, Covert, Michigan 49043

March 23, 1973

Mr. F.E. Kruesi, Director
Directorate of Regulatory Operations
U.S. Atomic Energy Commission
Washington, D.C. 20545

Dear Mr. Kruesi:

An overexposure to ionizing radiation of a Combustion Engineering, Inc. employee has occurred at Consumers Power Company's Palisades Nuclear Plant. The overexposure occurred during the recent steam generator repair outage experienced by the plant. The employee, Mr. James Russell, received his exposure while working during the eddy current testing phase of the repairs from January 25, 1973 through February 5, 1973. Film badge dosimetry results indicate that Mr. Russell received a total whole body exposure of 3.19 REM. Mr. Russell has been informed of this exposure in accordance with 10 CFR 20.405. A detailed report of this exposure is attached.

Very Truly yours,

Melvin N. Taie
Melvin N. Taie,
Health Physicist

c.c. U.S. AEC Regional Office
Chicago, Ill.

R.L. Haueter
General Office

J.L. Bacon
General Office

Radiation Protection
Office Files
Palisades Nuclear Plant

*Revised
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REPORT OF OVEREXPOSURE TO

IONIZING RADIATION

Description of Exposure

Mr. Russell, an employee of Combustion Engineering, Inc., received his exposure during the time period of January 25 through February 5, 1973, while working on the eddy current testing phase of the Palisades Plant's recent steam generator repair outage. His work involved working on platform scaffolding set up in front of the manways of both "A" and "B" steam generators as well as making entries into the generators; the radiation fields were approximately 1 R/hr at the mouth of the manways and as high as 4.5 R/hr inside the generators. While in the work area Mr. Russell wore full anti contamination clothing with supplied air, film badge and either 200 mr and 1R or 1R and 5R pocket dosimeters depending on the work he was scheduled to perform. He was monitored by Radiation Protection Technicians at all times while in the work area. The following is a listing of Mr. Russells exposure, during the time period involved, taken from the Radiation Protection Office files:

<u>Date</u>	<u>Recorded Radiation Dose(mrem)</u>
1/25	100
1/26	330 300
1/27	—
1/28	700 (700 not charged)
1/29	750
1/30	31
1/31	65
2/1	200
2/2	<u>75</u>
Total	2559 mrem

The actual overexposure occurred as a result of a bookkeeping error on the Plant's Quarterly Log (See attached copy). Mr. Russell's Dosimeter Log shows two entries on January 29, 1973 of 700 mr each. Because the exposures were identical it appeared to the Radiation Protection Technician performing the daily tally of personnel radiation exposures that there had been an improper entry on the Dosimeter Log. Consequently, he did not charge Mr. Russell with the second 700 mrcm he received on January 29 and this ultimately resulted in the overexposure. Film badge dosimetry results show that Mr. Russell received a total whole body exposure of 3190 mrem.

Proposed Procedural Changes

Approximately two weeks after the repair outage began the Radiation Protection Office gained access, via loan, to a TLD system for personnel monitoring. It is very unlikely that Mr. Russell's overexposure would have occurred had the TLD system been in use at the time as each TLD exposure is made as a separate and distinct entry on a TLD Dose Log (See attached copy). Since the end of the steam generator repair outage the Plant has placed an order for the purchase of a TLD system which will be used for personnel monitoring.