



ARM2.950119.004

HEADQUARTERS
ANNISTON ARMY DEPOT
ANNISTON, ALABAMA 36201

IN REPLY REFER TO:
SSMAN

11 JAN 1965

SUBJECT: Report of Exposed Film Badge

TO: Commanding General
U. S. Army Supply and Maintenance Command
ATTN: AMSSM-SA
Washington, D. C. 20315

1. On 20 November 1964 this installation received a teletype from Lexington-Blue Grass Army Depot, Lexington, Kentucky, to the effect that a film badge worn by Mr. Garvis W. Singleton, Badge No 2532, had been exposed with an indicated dosage of X-Radiation of 4.5 REM.
2. The operation consisted of Fluoroscoping 2.75 Rocket Motors in 150KV Fluoroscope Machine, Dwg No NFSOD 3004, and was being conducted by SOP AOY-R-6. This operation requires three men who rotate their functions each thirty minutes. During the period of the film badge exposure, the operators were Garvis W. Singleton, Badge No 2532; Clifford R. Phillips, Badge No 3226, and Melvin T. Morris, Badge No 4757. There was no indication of any exposure on the other two film badges worn by Mr. Phillips and Mr. Morris.
3. Mr. Singleton was sent to the Depot Dispensary where he was examined, questioned, and counseled by the Depot Medical Director. He was removed from the operation and the area of the fluoroscope, and placed in the repacking operation, where there will be no possible exposure to radiation from the operation.
4. Monitoring of the fluoroscope operation was conducted by the Depot Safety Director and Chemical Engineer using a cutie pie and CD-V 700 radiac meters. There were no leaks or other abnormal operation of the machine. There were no locations outside of the machine that indicated a rate of more than .2 M/R. A zero to fifty roentgen dosimeter was run through the machine ten times; 11.2 roentgens were recorded on the dosimeter.
5. Mr. Singleton was questioned at length in an effort to determine

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how this exposure occurred. He emphatically stated that he knew of no way that the badge could have been exposed other than the normal exposure of the operation. The badges were required to be turned in each afternoon and no one in the operation was wearing a radium dial watch.

6. The Health Physics Branch, U. S. Army Chemical Center and School, Fort McClellan, Alabama, was contacted and a detailed study of our fluoroscope operation was requested. A copy of the survey report is inclosed.

7. All of the possibilities as to how the exposure of the film badge occurred were considered, and the following information was developed:

a. At about the same time the film badges were received, a number of radiac meters with calibrating sources were received at the depot. The packing of these meters was opened and they were stored in the same general area in which the film badges were received and possibly stored.

b. The subsequent shipment of film badges was already opened when it was received in the Ammunition Division Office. It could not be determined if the group with the recorded exposure had been opened prior to arrival at that office.

c. It was determined by questioning of the supervisors and members of the work crew that Mr. Singleton did not go to the lunchroom with the other members of the crew at break period and at lunch, but remained at the work site. The fluoroscope machine was locked in the off position but the key was left at the work location, and most of the employees knew where it was located. There was nothing to prevent the badge from being run through the machine at this time.

d. A check of the Photodosimetry Report, SC Form 787, revealed that there had been only one recorded exposure in this operation in the last two years. This occurred to one of the inspectors. He received .004 roentgens for the period 16 March 1964 to 18 April 1964.

8. The following actions have been taken to preclude an incident of this type:

a. Workers in the fluoroscope operation have been provided with pocket dosimeters, 0-200 MR scale, in addition to the film badge that is worn. These dosimeters are read and recorded each day.

b. All personnel are required to leave the operation and go to the change house during break and lunch period.

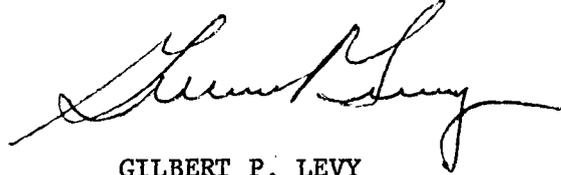
c. The fluoroscope machine will be locked in the off position and the supervisor will keep the key in his possession at all times that the machine is in operation.

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d. Mr. Singleton will not be placed in an operation where he can be exposed to radiation for one year.

e. Personnel have been informed not to open the film badge or radiac meters packing in the mail room or receiving bay in Consolidated Property Division.



GILBERT P. LEVY
Colonel, Ord Corps
Commanding

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