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ARGONNE NATIONAL LABORATORY

DATE Feb 15, 1949

TO W. H. Zinn

DEPARTMENT

FROM J. E. Rose

DEPARTMENT

ARGONNE
NATIONAL LABORATORY
OFFICE OF THE DIRECTOR

FEB 16 1949

SUBJECT Radiation Exposure Records

Reference is made to the request from L. S. Taylor, Division of Biology and Medicine, to A. Tammaro, Manager OCDO.

The letters in the following description pertain to the red pencil identification of each of the enclosed set of forms.

Radiation exposure is determined by records obtained from film badge meters and pocket meters. The enclosed forms show the methods for recording and filing data from them.

A. Individual meter record card

Film Badge Meters are worn for one week. Each film is numbered while in its badge, using soft X-rays. The films are filed numerically and a cross index (names) is kept of the stored film.

Readings are recorded for a ten-week period, all cards changed simultaneously. They are kept in a large loose leaf notebook, filed numerically. At the end of the period the cards are filed alphabetically.

Special badge meter readings as well as those of nose and face swipes or any other special information are recorded on the reverse of the card.

Pocket meter readings are recorded daily and the weekly exposure is totalled. Readings obtained from the wearing of self-reading pocket meters are recorded on the back of the card.

B. Notice of overexposure

1. For film badge meter
2. For pocket meter

These forms are sent to the individuals' supervisor when the exposure has exceeded the permissible levels of 400mr per week for film badges and 100mr per day for pocket meters. An investigation is made and this information recorded.

C. Form ANL-269. Weekly exposures exceeding permissible levels.

This report is sent to the Medical Division. Arbitrary units for the reading of the unshielded portion of the film are determined by comparing the blackening of this portion of the film with films which have been exposed to radium standards.

REPOSITORY DoE Rec Hold Card
 COLLECTION R6 326
 BOX No. 326-78-3 #2
 FOLDER MHS 3-9 Special Cases 1958

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D. Badge meter recording sheets

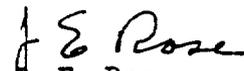
1. For body badges - miscellaneous; not special or weekly film badges.
2. For special badges, Form ANL-348. Information on all special film before recording on reverse side of individual meter record card.

E. Participating Institutions film badge recording sheet.

Each Participating Institution is provided with these forms. Recordings are made directly on the sheet and they are sent in with the weekly films by the Institution. The original is returned to the Participating Institution and the duplicate (yellow) sheet is retained by Argonne.

This Division, after numerous revisions of procedure, has evolved the above on the basis of the least red tape and the smallest number of personnel to do an adequate job. Three girls now handle about 6000 films per month and with the anticipated new quarters and facilities will be able to take care of the laboratory and participating institutions when expanded to its full size.

The communication to Mr. Tammaro implies the possibility of a change to a "standardized reporting system". It is hoped that if and when such a system is projected that this laboratory will reserve the prerogative of considering the consequences of its adoption, especially those involving additional personnel and more or different and complicated forms.


J. E. Rose
Director, Health Physics Division

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cc: A. M. Brues
Reading File

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