

PRIVACY ACT MATERIAL REMOVED

time is available on the exposure of the hands. The health-physics group is assured that experiments at this level will not occur in the future. If they are to be repeated it would seem wise to set up a means for cleaning the trays by remote control, that is to say, using distance as a shield.

On 2-26-45, 600 microcuries of strontium were spilled. Readings taken after cleaning showed 25 mr per hr on the door and 10 mr per hr on the floor. On 3-1-45 the door still showed about 20 mr per hr at a distance of 3 inches soft radiation.

5. West Stand surveys show conditions essentially unchanged when compared with the surveys of the previous week. It is of interest to note that one of the caves now has a reading of 5r per hr at a distance of 1 inch from the cave. This, naturally is not in a working area. During the week arrangements were made to remove two hot sinks from 217. These are to be replaced by stainless steel sinks.

Laundry monitoring detected only 1 contaminated garment during the week. Monitoring at the present time is only for beta and gamma contamination.

A spill occurred on 3-1-45 in room 217. [REDACTED] who had the spill and who decontaminated it received 0.67r as measured by a Landsverk self-reading pocket electroscope. It is known that this reading is probably too high, but how high is uncertain.

Miss Dorothy Wallace reported on the following matters:

1. Air surveys. 35 surveys were done; the highest value on a 24-hour count was 19, which is 12% of the tolerance value of 5×10^{-16} grams of product per cc.
2. Centrifuge surveys. 34 were surveyed during the past week. None were found to give counts greater than 500 per minute on smear.
3. Clothing monitoring; 77 coats were monitored for alpha, beta, and gamma contamination. One coat was sent through the laundry with readings of 600 and 1500 alpha counts per minute on 2-26-45. The West Stands laundry counter did not detect this material. No alpha contamination was noted.
4. Ellis Laboratory was surveyed. No contamination was noted. This survey was done on 3-2-45.
5. Routine rooms surveys. Room 32 has a sink which has the equivalent of more than 140,000 disintegrations per minute, assume product. The activity is essentially due to product. Actually it is known as activity due to product.

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J. J. Nickson reported on the following matters:

1. Carbon tetrachloride hazard in room 384 Ryerson was reviewed. Lieutenant Bauman of the United States Public Health Service was called in to determine the level of the carbon tetrachloride in air during simulated working conditions. Above tolerance levels for carbon tetrachloride in air were found in room 384A.
2. A tuballoy oxyfluoride hazard, which may be present at the Argonne and Armory, was discussed with Dr. Zinn who will be in charge of the work. Conditions under which the health hazards would be minimized were outlined in a letter to Dr. Zinn.
3. 212 Kent has been a subject of considerable discussion during the past week. It is hoped to put the decontamination squad into this room the early part of next week.
4. Badge meter readings. No readings greater than 0.6r were reported for the week.
5. Requests for surveys. 11 surveys were done because of low white blood cell count. 8 were on individuals who are members of the control group. It is not felt that exposure plays a role in their low counts. The average count for this group is 4250. Three individuals were members of the exposed group. Two from West Stands, and one from the Armory. Mr. [REDACTED] the individual at the Armory, does not have any exposure to other than T compounds and that mostly in the past. He does have a slight exposure to beryllium at the present time. Dr. Schwartz has recently reexamined this individual and has found a number of abnormal values. It is not known to what extent this rather small beryllium exposure enters into the low white count picture. Mr. [REDACTED], 2900 on 2-20-45, is a man who for the past month has been working on the hexone absorption column. Pocket and badge meter readings do not indicate any radiation levels approaching the 100 mr per day. Survey of the work site revealed no area above 1 mr per hr. Mr. [REDACTED] was surveyed because of a white blood count of 4900 on 2-27-45. This man has also been working on the column. His badge and pocket meter readings do not indicate any exposure that approaches tolerance. Survey of the work area reveals no activity greater than 1 mr per hr.

Surveys for alpha contamination do not reveal any contamination.

6. High pocket meter readings for the week ending 5-3-45. 16 readings are reported. 11 are felt to be valid readings. 2 are from the Argonne, 4 from the West Stands, 1 from Mr. Jesse's section, 2 from Mr. Rose's group, and 1 each from Mr. Sugarman's and Mr. Seaborg's section.

JJN: jz

J. J. Nickson, M.D.

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