OAK RIDGE NATIONAL LABORATORY
OPERATED BY
CARBIDE and CARBON CHEMICALS CORPORATION
FOR THE
ATOMIC ENERGY COMMISSION
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NOTEBOOK NO. 73 EXCERPTS

Assigned to: A. D. Warden

Department: 706 D.

Location: Health Physics

Date: 4-1-49

This notebook is assigned to personnel performing research and development work and must be used for all original calculations, notes and abstracts from reports.

Assignee is responsible for the safe-guarding of this notebook in accordance with security regulations.

Do not use scrap paper.

Be sure to record all personal conferences.

This notebook must be returned to Central Files-Bldg. 703-A when completed or upon termination of assignee.

Subject	Page

~~RESTRICTED DATA~~
"This document contains restricted data as defined in the Atomic Energy Act of 1954. [redacted] of its contents in any manner to an unauthorized person is prohibited."

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CLASSIFICATION CANCELLED
DATE 2/4/64
For The Atomic Energy Commission
H. F. Carroll
Chief, Declassification Branch

This document has been approved for release to the public by:

Donald R. Hamrin 7/17/95
Technical Information Officer, ORNL Site — Date

Date

04/16/49

205. Six or seven floor spills found reading up to 30 mr/hr at 2". No α detected; supervisor informed and areas marked.

10^30 A Survey in Chem Lab., Bldg. 205 for Maintenance man G. H. Jones to repair distilling (H_2O) apparatus. Rdg < 5 mr/hr.

11^30 A Probed 2 Maint. men; one who worked welding on 706 C roof had contaminated gloves; issued replacement form, also form X-238.

11^30 A Took water sample of white oak dam

11^45 A Counted thyroid of alue and waters

	5 m BG	LS	RS	nose	Chest
alue	534	106	108	132	109
walters	534	99	109	123	107

12^00 A Changed charts on weather Inst 706 B and top of hill rain gauge

1^30 P When 2½" SS off gas line was cut N. of 706 C about 1 gal of water ran out into hole dug under pipe which read 90 mr/hr. It was necessary for welder to get down in hole to weld so water was drained to one end of hole and ply board and blotter paper placed in hole to keep welder from getting contaminated - a check with probe showed little contamination

Signed

7 45/A to [illegible]/A — Went to Y-12 RR siding to survey two slug carriers and one wooden cask shipped from Hanford.

Cain
cP-91
Vict-8

Made 5 smears each of the three items - see smear log.

Readings obtained were;

Phoenix # II <10 mr/hr

" 301 15 mr/hr @ 3" of side

Cask # 67 40 mr/hr @ 3" of one side, <10 mr/hr on other sides.

04/17/49

10 45/A — First load (carrier) of W slugs dropped into Cell A, 706 D - Carrier read 100 mr/hr at 4" of sides, 300 mr/hr under bottom. Most active slug read 6.3 r/hr at 1' of base of carrier as it was discharged into cell - reading at operator while dropping 340 mr/hr for less than .1 sec for each slug, 16 slugs unloaded.

PWO
[illegible]-C
Cain

11 [illegible]/A — Second carrier of 16 W slugs loaded in Cell A - 706 D - readings like 1st load.

11 30/A — Dam sample - white oak dam.

12 00/A — Changed weather inst Charts 706 B and top of hill.

12 15/P to [illegible] — Three more carriers of W slugs of 16, 16, + 12 [illegible] loaded into Cell A

Signed

46. Date (04/22/49)

8:15 AM — Took readings at skyshine - 48 R/HR
8:45 — Made readings on an outgoing isotope.
1hr. — Smeared same, carried smear to 104 B and counted. Results OK.
9:30 — Probed third level 706 D and pointed out
1hr. — hot spots to operations clean up crew.
Checked skyshine cover plate with CPWO.
No contamination detected.
10:15 AM — Decontaminated CP 86 and changed
.3 — cellophane.
10:30 — Made electroscope readings on truck
.4 — carrying product.
Inside of cab - 1.8 mr/hr.
Rear Wheel Left - 2.2 mr/hr.
R. Rear Wheel - 2.5 mr/hr.
Tailgate - 2.2 mr/hr.

12:30 — Smeared 13E, Cutie Pie 74 C, Cutie Pie 139 C
1hr. — for shop.
1:30 — Smeared 34 outgoing isotopes carriers.
G & P. — Aided GUINN in making readings on
3hrs. — electroscope.

10:00 TO 11:30 AM ELECT. + CPWO + — Smeared + took readings on Chicago truck carriers.

CPWO
3:00 pm — Monitored riggers removing glassware
.4hr. — rinse carriers to storage garden. Men only
exposed for ~ 1 min to ~ 100 mr/hr.

Signed [illegible]