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CARBIDE and CARBON CHEMICALS CORPORATION
FOR THE
ATOMIC ENERGY COMMISSION
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ChemRisk Repos. No. 2039

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NOTEBOOK NO. 110 Bot 2837

PARTIAL COPY

Assigned to: A. D. Warden
Department: Health Physics
Location: 104B - 706D
Date: 6-13-49

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 |
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SECRET

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

David R Hamrin 7/21/95
Technical Information Officer Date
ORNL Site

ChemRisk Document No. 2039

7 30/A (Cont)

| Item | mr/hr with Vict 263 | Smears # | Smears α 38 |
|---|---|---|---|
| Pat 204 | 10 (at Bent spot) | 31-35 | |
| Box 61 | <5 | 41-45 | (See Page 74) |
| Box 84 | <5 | 46-50 | |
| Box 95 | <5 | 51-55 | |
| Pat 203 | <5 | 56-60 | |
| 2 new Plywood Boxes | <5 | 61-70 | |
| 2 small " " | <5 | 71-13 | |
| L&N Car # 1485 | <2 | 74-90 | |

each item was smeared and probed with Vict 263 and read with paper chamber C.P. after all items were removed from car the floor and doors of Car # 1485 was smeared and probed with Vict 263 - nothing detected above BG (< 2 mr/hr)

07/10/49

10 00/A to 1 00/P — 76 W-slugs, six carrier loads, were loaded in cell A 706D - by oper. av. reading at base of carried when slug dropped into cell was ~ 7.8 rhd. and 600 mr/hr 6' of carrier at operators hands while turning crank to unload slugs.

11 30/A — water sample of white oak Dam

12 00/noon — changed weather inst charts and left in 706B attic.

Signed

1:00 P Changed Po samples for Brown at 719B

2:00 P Smeared (10) - Phoenix carriers I & II after cleaned by 706D oper.
one smear on #1 carrier above tol for α & Bγ

3:00 P Checked weather inst - OK

12:00 N Counted 100 smears for α + Bγ

3:10 P 1st coating removal sample read 920 mrhr at 3" of side of sample and 160 mrhr at 4" over top
CPWD
was not notified by oper so did not get to run filtron & ppt before during & after sample was taken.

3:00 P Notified 105 inst man to replace chart on CAM, 7 wd level 706D

Guinn + Nichols 4-12

5:00 pm Resmeared Phoenix carrier #1 where it was above tolerance on day shift. After cleaning it counted 8 c/m α + 17 c/m Bγ.

4:15 P Took film badges and meters to Y-12 and picked up meters. Also checked hand + foot the patrol had called about earlier.

Signed

Date
JUL 12 1949

8 – 4 Cain & Bartley

Cain in 205 area entire day.
Bartley in 7047 area entire day

JUL 12 1949

Grimm + Wiggins 4-12

4:00 pm Got box of bottles from Cottrell for dam sampling.

4:35 pm Made survey at hole 55 in 105 for King. End of aluminum rod reads 4 r/hr @ 3". He is waiting for the rod to decay, so he can put it back in hole 55 safely. He wants another survey at 6:30 pm.

4:30 pm CPWO Sample of heel dissolving taken at A-6 by P. Phillips. Reading 82 mr/hr at his hands for ~ 45 sec. Sample read 2300 mr/hr @ 3".

5:25 pm CPWO F.P. Probe Sample 6 WMB taken at A-6 by G. Phillips Read 10.0 mr/hr at his hands for ~ 30 sec. Sample read 14 r/hr with fishpole probe.

6:30 pm CPWO Re-checked aluminum rod at hole 55 in 105. Rod now reads 1500 mr/hr @ 3". Area around hole is roped off.

8:00 pm Took 60 smears in Chem. Lab.

9:30 pm attended shift meeting at 105, concerning the picnic.

10:00 pm Routine survey Signed 205 lab + roof.

Date

JUL 14 1949

5 30 P Initialed Micro.

6 00 P Took 16 smears on Square carrier at 101 decontamination Pad. Only one #15 (near hole that has pb partially removed) counted above tolerance. 12,423 C/m. To be decontaminated.

8 00 P Resmear hot spot on carrier One smear directly below drain hole still cont. Noticed solution leaking from hole so decont. discontinued till tomorrow. Cont 4,789 C/m

4 15 P Picked up Jones and Grand area meters, Took meters to Y-12 brought back used ones back and took fresh meters to Jones and Grand area.

6 00 Routine bldg survey

7 00 Routine Chem. lab. survey

8 00 Routine survey of 205 lab and roof.

9 00 Routine survey of evaporator and checked at 706 H.B. no survey was made since no personnel were in the bldg.

9 45 P Preparation for skyphine and removal of product.
Found one of our probes with dead battery
Got one from storage room ~~but its~~

Signed

OD. Date

~~of the other readings.~~

Skyshine reading with skyshine instrument was ① 42 r/hr
② 43½ r/hr

Probe #9P 36 r/hr
Probe #13P 52 r/hr

Reading over top when carrier removed was 10,000 mr/hr @ ~ 2'
This reading was coming from bracket that held the cone.
After removal of bracket and installa of cover reading on top was 1600 mr/hr
Side 60 mr/hr.
10 smears were taken

| | α | β | | α | β |
|---|---|---|---|---|---|
| 1 | | 68 | 6 | | Jammed C. |
| 2 | | 29,056 | 7 | | 8329 |
| 3 | | 13,216 | 8 | | Jammed C. |
| 4 | | 2263 | 9 | | 15,114 |
| 5 | | 9040 | 10 | | Jammed Counter |

A percipitron was taken during removal of product $11\frac{05}{P}$ to $11\frac{35}{P}$.
All personel wore Respirators during removal.
Truck Readings: Inside Cab. 2.4 mr/hr
Lt. Rear wheel 2.1 mr/hr Rt. Rear wheel 2.2 mr/hr
Tail gate <1 mr/hr.

JUL 15 1949 12-8 Bussey Borden

1200 Checked CAM's + Micros. CAM Cold Chem Lab.

Signed