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MOUND LABORATORY
Operated By
MONSANTO CHEMICAL COMPANY
MIAMISBURG, OHIO

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Hugh Kinser
Authorizing Official
Date: 12-1-11

HEALTH-PHYSICS MONTHLY INFORMATION REPORT (u)

MASTER

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1st review date 10/29/08 Determination (circle numbers)
Authority: DC DD 1. Classification retained
Name: CM Davenport 2. Classification changed to
Title: OSTC Class Exns 3. Contains no DOE classified info
2nd review date 10/30/08 4. Coordinate with
Authority: DC DD 5. Classification cancelled
Name: Hugh Kinser 6. Classified info bracketed
Title: OSTC Class Exns 7. Other(specify)
Derived from: DAR-2 DOE OC Issue date 8/98

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Date: June 1-30, 1951

Prepared By: J. E. Bradley
J. E. Bradley
Chief, Health-Physics
Section

Approved By: J. J. Burbage
J. J. Burbage E.M.C.
Executive Director



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OCT 11 2001

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I. HEALTH-PHYSICS SECTION PERSONNEL

Section Chief

J. Bradley

1. Monitoring Group

Supervisor

H. Meyer

Laboratory Assistants

L. Cottongim, A. Czeiszperger, E. Davis, H. Johnson, G. Larimore,
L. Lewis, E. Lane, N. Poling, and M. Virag

2. "T" Area Survey Group

Supervisor

R. Guillet

Health Surveyors

C. Carlin, I. Johnson, T. McGuire, W. Reiter, R. Thomasson, J. Trigg,
and E. Wright

Custodian

L. Belcher

Decontamination Workers

R. Brown, C. Chrisman, W. Cooper, C. Estes, R. Fox, D. Gibson,
J. P. Herman, J. Hill, O. Hughes, T. Kidd, T. McEachern, S. Newman,
V. Nicely, C. Robertson, L. Stump, H. Taylor, J. Walker, and
F. Willis

3. "Q" Area Survey Group

Supervisor

W. Bigler

Health Surveyors

J. Garner, J. Geis, J. Hamman, H. Hedgebeth, B. Minor, A. Sonander,
and A. Toth

Custodian

J. Gerdes

Decontamination Workers

S. Bali, J. Belme, F. Dickerson, L. Harakay, W. Higginbottom,
F. Linville, and W. Penwell

4. Decontamination Group

Supervisor

R. Brodbeck

Decontamination Workers

C. Brodrick, C. Buford, W. Cropper, R. Dowler, N. Fecher,
E. Morton, L. Mosbacker, and J. Taylor

NOTE:

D. Davis	Terminated	5/31/51
J. McGee	Transferred	6/11/51

II. GROUP ACTIVITIES

A. Monitoring Group

1. Urine Activity Analyses

Urine samples are collected periodically from all plant personnel, and are analyzed for activity content. The frequency of collection is determined by their possible exposure to activity. When a man is found to have a count higher than 24 d./min./ml., he is restricted from working in any risk area.

Table I shows the urine record for the period covered by this report.

2. Personnel Monitoring

All personnel assigned to duties in the risk areas of the plant are monitored routinely for beta and gamma exposure. Each person wears a film badge and two pocket meters. The pocket meters are read daily, and the film badges weekly, except when both pocket meters indicate an exposure


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of more than 100 mr., in which case the film badge is read immediately. In addition, those personnel who may be exposed to neutron radiation are monitored with NTA film, which is read weekly.

Table II gives the personnel monitoring results for the month of June.

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TABLE I

URINE SAMPLE RECORD FOR JUNE 1951

	<u>"T" AREA</u>							
	<u>OPERATING</u>				<u>NON-OPERATING</u>			
	6/4	6/11	6/18	6/25	6/4	6/11	6/18	6/25
Week Beginning	6/4	6/11	6/18	6/25	6/4	6/11	6/18	6/25
Total Personnel Examined	101	88	94	96	20	20	16	17
% of Personnel Examined	83	72	77	79	65	64	51	55
% of Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
% of Non-Technical Employees above 24 d/min./50ml.	3.1	3.1	0	0	0	0	0	0
No. of Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
No. of Non-Technical Employees above 24d/min./50ml.	1	1	0	0	0	0	0	0
New Cases above 24 d/min./50ml.	1	0	0	0	0	0	0	0
Old cases above 24 d/min./50ml.	0	1	0	0	0	0	0	0

	<u>"G" AREA</u>							
	<u>OPERATING</u>				<u>NON-OPERATING</u>			
	6/4	6/11	6/18	6/25	6/4	6/11	6/18	6/25
Week Beginning	6/4	6/11	6/18	6/25	6/4	6/11	6/18	6/25
Total Personnel Examined	98	99	85	91	128	111	128	136
% of Personnel Examined	80	80	68	73	30	25	30	31
% of Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
% of Non-Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
No. of Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
No. of Non-Technical Employees above 24 d/min./50ml.	0	0	0	0	0	0	0	0
New Cases above 24 d/min./50ml.	0	0	0	0	0	0	0	0
Old Cases above 24 d/min./50ml.	0	0	0	0	0	0	0	0

TABLE II

PERSONNEL MONITORING

	Total No. <u>Readings</u>	No. Above <u>50mr.</u>	% Above <u>50mr.</u>	No. Above <u>150mr.</u>	% Above <u>150mr.</u>	No. Above <u>300mr.</u>	% Above <u>300mr.</u>
"T" Area Pocket Meters	4035	9	0.21	3	0.07	-	-
"G" Area Pocket Meters	3869	14	0.36	9	0.23	-	-
"T" Area Film Meters	647	5	0.80	0	0	0	0
"G" Area Film Meters	569	1	0.17	0	0	0	0
Visitors (FM)	1158	0	0	0	0	0	0

NEUTRON FILMS

192 monitoring films were processed.

191 films gave results from 0 to 0.4 times the maximum permissible exposure level.

1 film gave a result 0.4 to 1.0 times the maximum permissible exposure level.

0 films gave results \geq 1.0 times the maximum permissible exposure level.

3. Special Samples

Total number of urine activity analyses	1354
Control samples (urine)	36
Mud samples (Miami River)	312
Water samples (Miami River)	457
Water samples for "T" Building	6
Plant water supply samples	40
S.D. samples	40
Vegetation samples	84
WD samples	58
Sewer samples	4

4. Off-Area Surveysa. Air Monitoring

Seventy-one off-area samples were taken during the month of June.

All samples were taken down wind from the plant.

66.2% of the results were 0 d./min./cubic meter.
 33.8% of the results were 1-20d./min./cubic meter.
 0.0% of the results were 20 d./min./cubic meter

b. River Surveys

Mud and water samples were collected routinely from the Miami River, between Dayton, Ohio and Elizabethtown, Ohio. The water samples and the mud samples, after being digested are evaluated to determine their polonium content. During the month of June, 457 water samples and 312 mud samples were analyzed.

B. Survey and Service Groups

1. Air Surveys

Continuous air samples (8-hour) are collected in many areas of the plant. Table III is a record of the average levels of air contamination for the period of this report. In addition to the continuous samples, several spot air samples are collected and their average readings are tabulated in Table IV.

2. Wipe Sampling

Past experience in working with polonium has shown loose surface contamination is more hazardous than fixed contamination. For this reason, in addition to direct surface readings, wipe sample surveys are made periodically. The surfaces to be surveyed are wiped over an area of approximately 40 square inches with filter paper. These samples are evaluated and the surfaces classified white, yellow, or red as follows:

- White - < 500 d./min./wipe sample
- Yellow - 500-2000 d./min./wipe sample
- Red - < 2000 d./min./wipe sample

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Table V is a tabulation of wipe sample results for the period covered by this report.

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TABLE III

8-HOUR CONTINUOUS AIR SAMPLES

"T" AREA

<u>Area Classification</u>	<u>Sampling Site</u>	<u>Samples</u>	<u>Above A</u>	<u>Highest x A</u>	<u>Average x A</u>
Clean	78-Mechanical Equipment	42	0	0.02	0.005
	246-Research	5	0	0.03	0.02
	306-Counting	5	0	0.03	0.01
	323-"Y"	6	0	0.04	0.01
	317-Calorimetry	21	0	0.05	0.006
	319-Calorimetry	6	0	0.01	0.006
	307-Counting	5	0	0.009	0.005
	330-Change House	4	0	0.09	0.04
	300-Change House	5	0	0.06	0.03
	Low Risk	6 & 1 Corridors	21	0	0.50
16-Drum Storage		21	1	1.58	0.13
247-Research		42	0	0.36	0.03
248-"Y"		42	0	0.06	0.01
250-"Y"		42	0	0.10	0.02
251-"Y"		42	1	1.18	0.13
253-"Y"		42	0	0.003	0.001
254-"Y"		42	0	0.10	0.02
256-"Y"		42	0	0.15	0.01
257-"Y"		42	1	1.39	0.16
259-"Y"		42	0	0.67	0.06
260-Micro Assay		126	4	7.06	0.18
311-Control		63	0	0.65	0.05
267-P & E		42	4	1.61	0.25
270-P & E		42	3	1.32	0.15

TABLE III--(CONTINUED)

<u>Area Classification</u>	<u>Sampling Site</u>	<u>Total Samples</u>	<u>Above A</u>	<u>Highest x A</u>	<u>Average x A</u>	
Low Risk	275-Concentration	42	0	0.20	0.03	
	276-Concentration	42	1	1.65	0.06	
	281-Change House	42	0	0.17	0.04	
	237-Storage	4	0	0.18	0.06	
	226-"Y"	21	0	0.03	0.007	
	218-Lounge	21	0	0.03	0.15	
	46-Decontamination	63	0	0.32	0.05	
	61-Decontamination	42	1	1.36	0.49	
	13-Decontamination	42	0	0.48	0.06	
	11-Maintenance	42	0	0.14	0.02	
	"WD"-Building	167	3	4.34	0.14	
	"HH"-Building	21	5	2.70	0.63	
	Incinerator	5	5	10.9	0.92	
	High Risk	C-23-Corridor	21	5	45.0	3.34
249-"Y"		21	3	2.1	0.53	
252-"Y"		21	10	240.0	26.0	
255-"Y"		21	1	5.0	0.08	
258-"Y"		21	18	240.0	52.4	
261-Micro Assay		21	18	19.0	13.7	
262-Micro Assay		21	17	240.0	25.5	
308-Control		21	8	108.0	0.63	
309-Control		21	12	45.0	7.4	
266-P & E		21	21	240.0	110.0	
268-P & E		21	21	240.0	69.5	
269-P & E		20	20	240.0	81.2	
271-P & E		21	14	204.6	14.3	
277-NS		21	0	0.08	0.03	
279-NS		42	0	0.31	0.04	
71-Balance Repair		21	4	240.0	13.2	
52-Maintenance Shop		21	15	67.5	6.65	
Hot		57-Concentration	21	8	43.2	4.15
		59-Concentration	21	5	1.83	0.58
Exhaust Air Systems	E-22	21	0	0.02	0.006	
	E-31B	21	1	2.46	0.13	
	E-21	21	0	0.06	0.009	
	E-31	21	0	0.02	0.004	
	HE-23	21	0	0.02	0.005	
	E-41	21	1	1.47	0.18	
	E-16	21	0	0.02	0.008	
	E-23	21	0	0.04	0.007	
	E-11A	21	0	0.02	0.006	
	E-24	21	0	0.01	0.004	

TABLE III-(CONTINUED)

<u>Area Classification</u>	<u>Sampling Site</u>	<u>Total Samples</u>	<u>Above A</u>	<u>Highest x A</u>	<u>Average x A</u>
Pre-Filter	E-31-A	21	0	0.08	0.02
Exhaust Air	E-24	21	0	0.03	0.01
	E-23	21	0	0.04	0.01
	E-21	21	2	9.12	0.07
<u>"G" AREA</u>					
Low Risk	R-102-Rest Room	22	0	0.04	0.01
	R-103-Study Room	22	0	0.07	0.01
	R-106-Stockroom	44	0	0.03	0.01
	R-107-Battery Room	22	0	0.06	0.01
	R-108-Decontamination Storage	22	0	0.03	0.02
	R-109-Calorimetry	22	0	0.02	0.008
	R-110-Calorimetry	22	0	0.09	0.01
	R-111-Waste Disposal	22	0	0.03	0.01
	R-112-Standards	22	0	0.05	0.01
	R-113-Mass Spectroscopy	22	0	0.02	0.005
	R-114-Cloud Chamber	44	0	0.04	0.007
	R-115-Cloud Chamber	22	0	0.03	0.007
	R-120-Physics	44	0	0.04	0.009
	R-122-Physics	22	0	0.03	0.01
	R-123-Change Room	22	0	0.03	0.01
	R-127-Waste Disposal	44	0	0.56	0.12
	R-129-Waste Disposal	22	0	0.05	0.01
	R-130-Waste Disposal	22	0	0.02	0.006
	R-131-Decontamination	22	0	0.06	0.01
	R-133-Decontamination	22	0	0.04	0.01
	R-134-Health Electronics	22	0	0.03	0.01
	R-136-Decontamination	22	0	0.08	0.02
	R-137-Decontamination	22	0	0.26	0.03
	R-140-Decontamination	22	1	1.40	0.07
	R-142-High Vacuum	44	0	0.86	0.04
	R-145-Fundamental Research	22	1	1.50	0.09
	R-147-Fundamental Research	21	2	9.45	0.51
	R-149-Fundamental Research	22	0	0.84	0.06
	R-151-Purification	22	0	0.48	0.08
	R-152-Change Room	22	0	0.64	0.04
	R-155-Electrolytic Research	22	0	0.03	0.008
	R-156-Electrolytic Research	22	0	0.04	0.01
R-157-Electrolytic Research	22	0	0.02	0.009	

TABLE III-(CONTINUED)

<u>Area Classification</u>		<u>Total Samples</u>	<u>Above A</u>	<u>Highest x A</u>	<u>Average x A</u>
Low Risk	R-159-Electrolytic Research	44	0	0.05	0.01
	R-161-Electrolytic Research	22	0	0.03	0.01
	R-162-Waste Disposal	22	0	0.07	0.02
	R-163-Waste Disposal	22	0	0.02	0.01
	R-164-Distillation Room	22	0	0.02	0.005
	R-165-IR Shop	22	0	0.06	0.01
	R-166-Fundamental Research	22	0	0.04	0.01
	R-167-Waste Disposal	21	1	2.14	0.20
	R-168-Waste Disposal	21	1	2.22	0.18
	R-169-Health Electronics	44	0	0.03	0.008
	R-170-Absorption Spectroscopy	22	0	0.03	0.01
	R-171-Fundamental Research	44	0	0.13	0.02
	R-172-Fundamental Research	22	0	0.05	0.01
	R-173-Quartz Fiber	22	0	0.07	0.01
	R-174-Quartz Fiber	22	0	0.07	0.01
	R-175-Quartz Fiber	22	0	0.03	0.01
	R-176-Balance Room	22	0	0.02	0.01
	R-177-X-Ray Diffraction	22	0	0.06	0.01
	R-178-X-Ray Diffraction	22	0	0.06	0.01
	R-179-Spectroscopy	22	1	54.00	2.52
	R-181-Spectroscopy	22	0	0.08	0.02
	R-182-Rest Room	22	0	0.03	0.01
	R-202-Penthouse	22	0	0.31	0.02
R-208-Fan Room	44	0	0.16	0.03	
R-Corridors	220	1	1.64	0.03	
High Risk	R-119-Elephant Corridor	22	1	1.17	0.09
	R-121-Elephant Corridor	22	1	1.08	0.16
	R-128-Elephant Corridor	22	1	1.30	0.09
	R-132-Elephant Corridor	22	0	0.04	0.02
	R-135-Decontamination	22	1	4.31	0.25
	R-141-Elephant Corridor	22	0	0.71	0.06
	R-143-Elephant Corridor	22	2	54.00	2.65
	R-144-Elephant Corridor	22	0	0.70	0.11
	R-146-Elephant Corridor	22	0	0.13	0.03
	R-148-Elephant Corridor	22	0	0.11	0.02
	R-150-Elephant Corridor	22	1	1.84	0.12
R-158-Elephant Corridor	22	0	0.97	0.17	

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TABLE III-(CONTINUED)

<u>Area Classification</u>	<u>Sampling Site</u>	<u>Total Samples</u>	<u>Above A</u>	<u>Highest x A</u>	<u>Average x A</u>
High Risk	R-160-Elephant Corridor	22	2	8.38	0.77
	R-221-Filter Bank Corridor	44	0	0.16	0.03
	R-Corridor No. 5	88	1	2.29	0.06
	H-Laundry	66	7	8.81	0.51
	B-208-Filter Bank Corridor	44	0	0.08	0.01
	B-105 A-Corridor	22	0	0.57	0.03
	B-109 A-Corridor	22	0	0.47	0.09
Exhaust Air System	H-205	22	0	0.02	0.01
	H-Annex	22	0	0.05	0.01
	B-209	22	0	0.02	0.004
	B-212	22	0	0.14	0.02
	B-213	22	0	0.03	0.01
	B-214	22	0	0.02	0.004
	B-215	22	0	0.05	0.01
	B-216	22	0	0.04	0.01
	R-209	22	0	0.22	0.02
	R-210	22	0	0.11	0.01
	R-211	22	0	0.10	0.01
	R-212	22	0	0.16	0.01
	R-213	22	0	0.06	0.01
	R-214	22	0	0.29	0.02
	R-215	22	0	0.19	0.01
	R-216	22	0	0.20	0.02
	R-217	22	0	0.02	0.007
	R-218	22	0	0.03	0.01
	R-219	22	0	0.04	0.008
R-220	22	0	0.01	0.002	
Clean	H-Laundry	110	0	0.15	0.02
Low Risk	H-Laundry	44	0	0.52	0.06
	H-Change Houses	20	0	0.13	0.02
	B-Penthouse	65	0	0.12	0.02
	C-Corridors	131	0	0.15	0.03
	B-102 Chronic Exposure	66	0	0.59	0.02
	B-104 Chronic Exposure	44	0	0.52	0.03
	B-105 Chronic Exposure	64	0	0.77	0.08
	B-108 Physiology	66	0	0.17	0.03
	B-109 Acute Exposure	66	0	0.59	0.05
	B-111 Acute Exposure	88	0	0.05	0.01
	B-112 Source	88	0	0.35	0.02
	B-122 Biochemistry	65	0	0.06	0.02

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TABLE III--(CONTINUED)

<u>Area</u> <u>Classification</u>		<u>Total</u> <u>Samples</u>	<u>Above</u> <u>A</u>	<u>Highest</u> <u>x A</u>	<u>Average</u> <u>x A</u>
Low Risk	B-125 Plating	22	0	0.18	0.03
	B-126 Glassware Cleaning	43	0	0.55	0.06
	B-136 Bacteriology	66	0	0.06	0.02
	B-137 Genetics	44	0	0.07	0.02
	B-141 Animal Stock	22	0	0.04	0.02
	B-142 Animal Stock	22	0	0.05	0.02
	B-143 Animal Stock	22	0	0.04	0.01
	B-144 Isolation & Records	22	0	0.13	0.02
	B-119 Pathology	88	0	0.05	0.01

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TABLE IV

<u>Area Classification</u>	<u>Sampling Site</u>	<u>Total No. Samples</u>	<u>Average x A</u>
Clean	T-Plenum	2	0.09
Low Risk	T-Plenum	6	0.31
	WD-During repairs	4	2.71
	R-145 Research	41	0.11

A = 1000 d./min./cubic meter.

TABLE V

WIPE SAMPLES OVER A 40 SQUARE INCH AREA

"T" AREA

Location	No. of Wipes	% White	% Yellow	% Red
267-P & E	1938	93	1	6
270-P & E	1939	95	2	3
260-265-Micro Assay	1976	96	1	3
311-Control	820	98	1	1
275, 276-Concentration	720	98	0	2
277, 279-NS	798	97	1	2
230-233-Preparations	248	99	1	0
248-"Y"	180	99	1	0
250-"Y"	442	99	0	1
251-"Y"	324	98	1	1
253-"Y"	204	100	0	0
254-"Y"	180	98	1	1
256-"Y"	170	100	0	0
257-"Y"	881	99	1	0
259-"Y"	840	100	0	0
"WD"-Building	1785	98	2	0
"HH"-Building	248	84	3	13
247-Research Offices	455 431	99 99	0 1	1 0
Decontamination Laboratory	384	90	6	4
A. M. Floor Surveys	1604	98	1	1

"G" AREA

R-102-Rest Room	70	100	0	0
R-103-Study Room	84	100	0	0
R-107-Battery Room	56	100	0	0
R-108-Decontamination Stock	92	100	0	0
R-109-Calorimetry	92	100	0	0
R-110-Calorimetry	120	100	0	0
R-111-Waste Disposal	104	99	0	1
R-112-Standards	104	100	0	0
R-113-Mass Spectroscopy	80	100	0	0
R-114, 115-Cloud Chamber	136	100	0	0
R-116-Neutron Laboratory	182	100	0	0
R-117-Vault	84	100	0	0
R-120, 122-Physics	754	100	0	0

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TABLE V-(CONTINUED)

"G" AREA

Location	No. of Wipes	% White	% Yellow	% Red
R-123-Change Room	91	100	0	0
R-129-Waste Disposal	270	100	0	0
R-130-Waste Disposal	240	100	0	0
R-131-Decontamination	320	100	0	0
R-133-Decontamination	288	100	0	0
R-134-Health Electronics	203	100	0	0
R-140-Decontamination	324	100	0	0
R-142-High Vacuum	561	99	0	1
R-145-Gamma Scale	519	100	0	0
R-147-Fundamental Research	836	98	0	2
R-149-Fundamental Research	675	97	0	3
R-151-Purification	468	92	1	7
R-152-Change Room	134	100	0	0
R-155, 156-Electrolytic Research	234	99	0	1
R-157-Electrolytic Research	231	98	1	1
R-159-Electrolytic Research	651	100	0	0
R-161-Electrolytic Research	370	100	0	0
R-162-Waste Disposal	216	100	0	0
R-163-Waste Disposal	108	100	0	0
R-164-Distillation Room	72	100	0	0
R-165-IR Shop	104	100	0	0
R-166-Fundamental Research	140	100	0	0
R-170-Absorption Spectroscopy	92	100	0	0
R-171, 172-Gamma Scale	287	100	0	0
R-173, 174, 175-Quartz Fiber	88	100	0	0
R-176-Balance Room	41	100	0	0
R-177, 178-X-Ray Diffraction	100	100	0	0
R-179, 180-Spectroscopy	124	100	0	0
R-181-Health Survey	92	100	0	0
R-182, 183, 184-Rest Room	56	100	0	0
R-Corridors	268	100	0	0
R-Doors	234	100	0	0
B-102-103 Chronic Exposure	96	100	0	0
B-104 Chronic Exposure	72	100	0	0
B-105 Chronic Exposure	232	99.6	0	0.4
B-106-107 Change Rm. & Air Lock	64	100	0	0
B-108 Physiology	144	100	0	0
B-109 Acute Exposure	192	100	0	0
B-110-111 Acute Exposure	112	100	0	0
B-112 Source	88	100	0	0
B-119 Pathology	336	100	0	0

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TABLE V-(CONTINUED)

"G" AREA

<u>Location</u>	<u>No. of Wipes</u>	<u>% White</u>	<u>% Yellow</u>	<u>% Red</u>
B-122 Biochemistry	504	100	0	0
B-125 Plating	88	100	0	0
B-126, 126A Glassware Cleaning	144	100	0	0
B-135, 148, 149-Microscopic Studies	176	99	0	1
B-136 Bacteriology	192	100	0	0
B-137, 138 Genetics	96	97	0	3
B-139 Equipment Design & Repair	72	100	0	0
B-Corridors and Platform Breezeway	392 81	100 100	0 0	0 0
H-114-123 Change Rooms	88	100	0	0
H-124-127 Laundry, Sorting, Office Survey, etc.	279	100	0	0
H-128-132 Laundry "C" Area	286	99	0	1
H-131, 134 Laundry "LR" Area	117	95	0	5
H-133, 135 Laundry "H" Area	153	8	0	92

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3. General Surveys

Seventy-seven maintenance work permits were issued during June. For each permit issued a complete survey of area conditions was made and proper protective measures were recommended.

Five outgoing shipments were surveyed at the request of the Atomic Energy Commission. All readings were below the prescribed levels for such shipments.

Two truck loads of contaminated waste materials were shipped to Oak Ridge for burial.

A total of 434 trips were made into the high risk areas during this period. Each person was supplied with protective clothing consisting of coveralls, underclothes, socks, shoes, respirator or assault mask, goggles (if a respirator was worn,) and a head covering. Personnel were required to shower before returning to the low risk areas.

The following surveys were made routinely:

- a. Weekly surveys in all clean areas.
- b. Beta and gamma surveys in all operating areas. All areas having radiation intensities greater than 7.5 mr/hr are either shielded or roped off.
- c. All materials leaving the plant site were checked for possible contamination.
- d. Hand checks were made twice daily.
- e. Sho® surveys were made weekly.
- f. All plant vehicles were surveyed weekly.

4. Unusual Occurrences

None to report.

C. Decontamination Group

1. Routine Decontamination

The following items were decontaminated by this group during the month of June.

- 173 Respirators
- 53 Pairs of shoes
- 261 Mask facepieces
- 190 Gauntlet rings
- 393 Foil holders
- 65 Foil carriers
- 7672 Items of glassware
- 138 Maintenance tools
- 69 Samplers
- 3 Electronics instruments
- 424 Miscellaneous items

2. Decontamination Research

The final report of the laundry testing program is being written.

III. FUTURE PLANS

1. Complete laundry report.
2. Prepare a catalog of supplies.
3. Continue training of personnel.