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HEALTH DIVISION REPORT
FOR THE MONTH ENDING JUNE 30, 1952



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING JUNE 30, 1952

J. S. Felton, M. D.

DATE ISSUED

AUG 25 1952

OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS COMPANY
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DISTRIBUTION OF EFFORT FOR THE MONTH

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
Physicians	2	0	0
Nurses	1	5	0
Medical Technicians	0	4	0
X-ray Technician	0	1	0
Office Personnel	0	8	0
Custodial Personnel	0	0	3

Number of technical personnel added: 0

Number of technical personnel terminated: 0

ALLOCATION OF TIMEPhysicians

Administrative	1/3	0	0
Physical Examination	2/3	0	0
Dispensary Service	2/3	0	0
Health Education	1/3	0	0

Nurses

Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	5	0

Medical Technicians

General Laboratory	0	2	0
Blood studies	0	1 1/2	0
Urinalysis	0	1/2	0

X-ray Technician

	0	1	0
--	---	---	---

Office Personnel

	0	8	0
--	---	---	---

Custodial personnel

	0	0	3
--	---	---	---

	<hr/>	<hr/>	<hr/>
	3	18	3

STATISTICAL SUMMARY

Severity Rate 4.7 days lost per illness absence.
 Disability Rate 14.0 days lost per 1000 days scheduled.
 Frequency Rate 3.0 illness absences per 1000 days scheduled.
 Visit Rate 57.4 visits per 1000 days scheduled.

Number of patients

Employee 1780
 Non-employee
 A. E. C. 30
 duPont (Savannah) 36
 American Cyanamide 1
 Other 43
 Total 110
 Prospective employees 10
 Total patients 1900

Number of patients seen at X-10 Dispensary 1636
 Number of patients seen at Y-12 Dispensary 264
 Total patients 1900

Number of visits

Employee
 X-10 Dispensary 3318
 Y-12 Dispensary 585
 Total 3903
 Non-employee
 A. E. C. 46
 duPont (Savannah) 73
 American Cyanamide 1
 Other 93
 Total 213
 Total visits 4116

Number of procedures

Procedures performed at X-10 4955
 Procedures performed at Y-12 610
 Preliminary procedures 51
 Total procedures 5616

Number of employees at the Laboratory 3236

STATISTICAL SUMMARY (Continued from page 4)

Percent Employees visiting Dispensary	55.0
Number of Visits per Employee	1.2
Percent of Visitors Visiting Dispensary	15.4
Number of Visits per Visitor3
Number of Illness Absences per Employee1
Ratio of Occupational to Non-occupational Procedures	1: 0.5
Ratio of Non-occupational to Occupational Injuries, first visit	1: 1.4
Ratio of Non-occupational to Occupational Injuries, all visits	1: 2.3
Ratio of Occupational to Non-occupational Illnesses, first visits	1: 36 ⁴
Ratio of Occupational to Non-occupational Illnesses, all visits	1: 67
Ratio of Occupational to Non-occupational Absences	1: 32.6
Ratio of Occupational to Non-occupational Days Lost	1: 1.20

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PROCEDURES ACCOMPLISHED FOR THE MONTH OF JUNE 1952

	<u>No. of Procedures</u>
Non-occupational injury	150
" " " " , revisit	151
Non-occupational illness	727
" " " " , revisit	355
Occupational injury or exposure, chemical	21
" " " " " " , revisit	66
Occupational injury or exposure, chemical, a.o.q.*	1
" " " " " " , revisit	0
Occupational injury or exposure, n.o.c.**	177
" " " " " " , revisit	418
Occupational injury, n.o.c.**, a.o.q.*	1
" " " " " " , revisit	7
Occupational Injury or exposure, radiation	2
" " " " " " , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	0
" " " " " " , revisit	0
Occupational illness, n.o.c.**	2
" " " " , revisit	14
Absence due to illness or injury non-occupational	197
Absence due to illness or injury occupational	6
Physical examination, industrial hygiene	72
Physical examination, job transfer	9
Physical examination, periodic health	66
Physical examination, pre-placement	55
Physical examination, re-hire	3
Physical examination, termination	47
Physical examination, other	34
Audiogram	252
Blood donation	6
Clinical laboratory procedure /	643

* a.o.q - alleged or questionable
 ** n.o.c. - not otherwise classified
 / see next page

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	<u>No. of</u> <u>Procedures</u>
Electrocardiogram	260
Occupational vision section procedures	
Spectacles issued, plano	101
Spectacles ordered, prescription	79
Spectacles issued, prescription	40
Ortho-rater examination	204
Partial replacement	20
Adjustment or repair	13
Advisory service	23
Total	480
X-ray examination:	
X-ray examination, non-occupational	54
X-ray examination, occupational	291
Total	345
Special study interview	23
Clinical photograph	14
Dispensary visit, patient not seen	11
Psychologic consultation	7
Psychiatric consultation	7
Ballistocardiogram	2
Consultation, occupational conditions	15
Consultation, non-occupational condition	237
Consultation without patient, occupational	6
Consultation without patient, non-occupational	94
Pre-marital serodiagnostic test	4
Immunizations	607
Medical terminations	1
Diagnostic procedures for an outside M.D.	21
GRAND TOTAL	<u>5616</u>

4 The figure on page 6 represents the number of clinical laboratory visits. More than one laboratory procedure may be performed in one visit. The following is a breakdown of the procedures performed:

Agglutination	5
Bacteriological smear	5
Basal metabolism	1
Blood glucose	7
Blood N.P.N.	1

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	<u>No. of Procedures</u>
Blood urea nitrogen	12
Blood urea clearance	12
Clotting time	1
Feces, Fishberg	12
Feces, complete	1
Gastric analysis	2
P.S.P.	9
Red blood count and hemaglobin	534
Reticulocyte count	1
Rh factor	98
Sedimentation rate	3
Typing - blood	98
Urinalysis	549
Creatinine	12
Venipuncture for V.D. R.L.	315
White blood count and differential	535
	2213

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DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	4930
Return modified or part-time work	303
Death	3
Remain off work	306
Accepted	58
Sent to hospital or physician's office	16
	5616

ATTENDANT

Psychiatrist	7
First aid attendant	73
First aid attendant and nurse	17
First aid attendant, nurse and doctor	8
Nurse	2440
Nurse and doctor	246
Doctor	752
Doctor and first aid attendant	78
Technician	1988
Psychologist	7
	5616

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TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than one day	18	0
1 day	100	100
2 days	21	42
3 days	10	30
4 days	7	28
5 days	10	50
6 days	4	24
7 days	2	14
8 days	1	8
10 days	7	70
11 days	2	22
12 days	1	12
13 days	1	13
19 days	5	95
20 days	2	40
22 days	1	22
23 days	1	23
24 days	3	72
26 days	1	26
27 days	1	27
28 days	1	28
35 days	1	35
52 days	1	52
54 days	1	54
69 days	1	69
	203	956

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NUMBER OF DIAGNOSES FOR ALL VISITS

No. of Diagnoses

INJURIES

Non-occupational:

Superficial injuries (scratches, blisters insect bites, abrasions)	95
Lacerations	51
Contusions	39
Strains and sprains	55
Foreign body	3
Burns (thermal, chemical and radiant)	40
Fractures	23
Head injury	1
Poisonings	1
Miscellaneous	32
Total	340

Occupational:

Superficial injuries (scratches, blisters insect bites, abrasions)	146
Lacerations	191
Contusions	104
Strains and sprains	38
Foreign body	20
Burns (thermal, chemical and radiant)	209
Fractures	20
Amputations	1
Head injury	18
Poisonings	5
Miscellaneous	7
Total	759

GRAND TOTAL OF INJURY 1099

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No. of Diagnoses

ILLNESSES

Non-occupational:

Respiratory	294
Digestive	254
Circulatory	58
Diseases of the blood and blood-forming organs	13
Genito-urinary	116
Bones and joints	131
Diseases of the skin	156
Dermatitis	61
Diseases of the eye	82
Diseases of the ear	93
Allergic, endocrine, metabolic, etc.	93
Diseases of the thyroid	50
Infectious diseases	126
Psychoneurotic disorders	16
Common and benign tumors	12
Symptoms and ill-defined conditions	132
Total	1687

Occupational:

Bones and joints	1
Dermatitis	17
Total	18

GRAND TOTAL OF ILLNESSES 1705

No abnormal findings	22
General medical examinations	1
Persons receiving prophylactic inoculation and vaccination	8
Follow-up care of other cases of tuberculosis	1
Follow-up examination after operation, injury or disease other than tuberculosis	33

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	<u>No. of diagnoses</u>
Normal pregnancy	10
Consultation regarding sick relative	7
Consultation regarding death of relative	1
Medical and surgical aftercare	21
Immunizations	624
Loss due to accident by cutting and piercing instrument	1
Congenital malformation	10
Operations as cause of absences	
Non-occupational	18
Occupational	1
Deliveries and complications of pregnancy	19
Neoplasms	2
	8
Total	768
TOTAL DIAGNOSES	<u>3572</u>
Special services not involving diagnoses	2345
GRAND TOTAL	<u><u>5917</u></u>

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
<u>INJURIES</u>		
Lacerations	1	3
Contusions	1	1
Strains and sprains	7	77
Fractures	1	0
Miscellaneous	5	8
 <u>ILLNESSES</u>		
Respiratory	34	83
Digestive	67	114
Circulatory	3	64
Genito-urinary	27	56
Bones and joints	8	23
Diseases of the skin	1	69
Non-occupational dermatitis	2	33
Diseases of the ear	2	8
Allergic, endocrine and metabolic disease	5	98
Infectious diseases	2	8
Symptoms and ill-defined conditions	15	29
General medical examination	1	5
Follow-up examination after operation		
injury or disease other than tuberculosis	5	14
Operations as cause of absences	14	259
Deliveries and complications of pregnancy	2	4
 Total	 203	 956

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NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	3903	3236	1.2
<u>SEX</u>			
Male	3318	2713	1.2
Female	585	523	1.1
<u>OCCUPATION</u>			
Life scientist	31	68	.5
Physical scientist	591	604	1.0
Engineer	437	475	.9
Technical assistant	676	474	1.4
Administrative and managerial personnel	152	147	1.0
Clerical	337	372	.9
Laborer	190	119	1.6
Maintenance	192	66	2.9
Protective	234	179	1.3
Craftsman	882	592	1.5
Chemical operator	132	92	1.4
Equipment operator	49	48	1.0
<u>RACE</u>			
White	3586	3057	1.2
Colored	314	175	1.8
Yellow	3	4	.8
<u>MARITAL STATUS</u>			
Married	3111	2611	1.2
Single	714	560	1.3
Widowed	41	27	1.5
Divorced	37	38	1.0
<u>HEALTH STATUS*</u>			
H-1	578	573	1.0
H-2	2850	2341	1.2
H-3	316	236	1.3
H-4	1	0	0
H-5	158	86	1.8

- * H-1 Physically qualified for any position.
 H-2 Physically qualified for any position, but has minor defects.
 H-3 Physically qualified for special employment only, with restrictions.
 H-4 Deferred
 H-5 Temporary employees who aren't given a complete physical examination.

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	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	151	101	1.5
Physics	72	103	.7
Chemistry	111	121	.9
Reactor Experimental Engineering	213	101	2.1
Biology	61	111	.5
Metallurgy	143	149	1.0
Reactor Projects	0	1	0
Education Relations and Training	140	115	1.2
Health Physics	198	112	1.8
Engineering and Maintenance	1266	952	1.3
Industrial Relations	325	171	1.9
Health	23	25	.9
General Office	108	154	.7
Laboratory Protection	242	194	1.2
Directors	20	37	.5
Analytical Chemistry	277	211	1.3
Math Panel	14	26	.5
Chemical Technology	177	150	1.2
Information and Reports	53	75	.7
Materials Chemistry	110	73	1.5
Research Director	64	73	.9
Electromagnetic Research	21	50	.4
Isotope Research and Production	36	63	.6
ANP	68	61	1.1
Assistant Research Director	0	2	0
Solid State Division	10	5	2.0
<u>AGE GROUP</u>			
18 to 19 years	33	20	1.7
20 to 29 years	1321	1035	1.3
30 to 39 years	1415	1291	1.1
40 to 49 years	804	657	1.2
50 to 59 years	293	204	1.4
60 to 69 years	37	29	1.3
<u>SHIFT</u>			
Straight days	3389	2926	1.2
Rotating shifts	445	275	1.6
Straight shift	69	35	2.0
<u>PAYROLL</u>			
Hourly	1630	1067	1.5
Weekly	1032	878	1.2
Monthly	1241	1291	1.0

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TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>SEX</u>			
Male	594	56973	1.0
Female	358	10983	3.3
<u>OCCUPATION</u>			
Life scientist	0	1428	0
Physical scientist	48	12684	.4
Engineer	131	9975	1.3
Technical assistant	224	9954	2.3
Administrative and managerial personnel	2	3087	.1
Clerical personnel	188	7812	2.4
Laborer	66	2499	2.6
Maintenance personnel	11	1386	.8
Protective personnel	41	3759	1.1
Craftsman	191	12432	1.5
Chemical operator	2	1932	.1
Equipment operator	48	1008	4.8
<u>RACE</u>			
White	871	64197	1.4
Colored	81	3675	2.2
Yellow	0	84	0
<u>MARITAL STATUS</u>			
Married	770	54831	1.4
Single	106	11760	.9
Widowed	62	567	10.9
Divorced	14	798	1.8
<u>HEALTH STATUS*</u>			
H-1	107	12033	.9
H-2	681	49161	1.4
H-3	164	4956	3.3
H-4	0	0	0
H-5	0	1806	0

*H-1 Physically qualified for any position.

H-2 Physically qualified for any position, but has minor defects.

H-3 Physically qualified for special employment only, with restrictions.

H-4 Deferred.

H-5 Temporary employees who aren't given complete physical examinations.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	5	2121	.2
Physics	56	2163	2.6
Chemistry	11	2541	.4
Reactor Experimental Engineering	1	2121	0
Biology	70	2331	3.0
Metallurgy	14	3129	.4
Reactor Projects	0	21	0
Education Relations and Training	20	2415	.8
Health Physics	23	2352	1.0
Engineering and Maintenance	291	19992	1.5
Industrial Relations	77	3591	2.1
Health	19	525	3.6
General Office	11	3234	.3
Laboratory Protection	44	4074	1.1
Directors	5	777	.6
Analytical Chemistry	81	4431	1.8
Math Panel	2	546	.4
Chemical Technology	30	3150	1.0
Information and Reports	67	1575	4.3
Materials Chemistry	27	1533	1.8
Research Director	21	1533	1.4
Electromagnetic Research	1	1050	.1
Isotope Research and Production	73	1323	5.5
ANP	3	1281	.2
Assistant Research Director	0	42	0
Solid State Division	0	105	0
<u>AGE GROUP</u>			
18 to 19 years	6	420	1.4
20 to 29 years	281	21735	1.3
30 to 39 years	257	27111	.9
40 to 49 years	249	13797	1.8
50 to 59 years	149	4284	3.5
60 to 69 years	10	609	1.6
<u>SHIFT</u>			
Straight days	866	61446	1.4
Rotating shifts	38	5775	.7
Straight shift	48	735	6.5
<u>PAYROLL</u>			
Hourly	359	22407	1.6
Weekly	415	18438	2.3
Monthly	178	27111	.7

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EMPLOYEES WITH ONE OR MORE ILLNESS ABSENCE BY PERSONAL, OCCUPATION
AND GROUP CHARACTERISTICS

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
TOTAL	184	3236	5.7
<u>SEX</u>			
Male	96	2713	3.5
Female	88	523	16.8
<u>OCCUPATION</u>			
Life scientist	0	68	0
Physical scientist	17	604	2.8
Engineer	19	475	4.0
Technical assistant	50	474	10.5
Administrative and managerial personnel	1	147	.7
Clerical personnel	56	372	15.1
Laborer	6	119	5.0
Maintenance Personnel	2	66	3.0
Protective personnel	4	179	2.2
Craftsman	25	592	4.2
Chemical operator	2	92	2.2
Equipment operator	2	48	4.2
<u>RACE</u>			
White	173	3057	5.7
Colored	11	175	6.3
Yellow	0	4	0
<u>MARITAL STATUS</u>			
Married	135	2611	5.2
Single	41	560	7.3
Widowed	3	27	11.1
Divorced	5	38	13.2
<u>HEALTH STATUS*</u>			
H-1	21	573	3.7
H-2	146	2341	6.2
H-3	17	236	7.2
H-4	0	0	0
H-5	0	86	0

- *H-1 Physically qualified for any position.
- H-2 Physically qualified for any position, but has minor defects.
- H-3 Physically qualified for special employment only, with restrictions.
- H-4 Deferred.
- H-5 Temporary employees who aren't given complete physical examinations.

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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	4	101	4.0
Physics	3	103	2.9
Chemistry	2	121	1.7
Reactor Experimental Engineering	1	101	1.0
Biology	8	111	7.2
Metallurgy	8	149	5.4
Reactor Projects	0	1	0
Education Relations and Training	2	115	1.7
Health Physics	7	112	6.3
Engineering and Maintenance	41	952	4.3
Industrial Relations	12	171	7.0
Health	2	25	8.0
General Office	4	154	2.6
Laboratory Protection	5	194	2.6
Directors	1	37	2.7
Analytical Chemistry	29	211	13.7
Math Panel	1	26	3.8
Chemical Technology	12	150	8.0
Information and Reports	17	75	22.7
Materials Chemistry	7	73	9.6
Research Director	9	73	12.3
Electromagnetic Research	1	50	2.0
Isotope Research and Production	3	63	4.8
ANP	5	61	8.2
Assistant Research Director	0	2	0
Solid State Division	0	5	0
<u>AGE GROUP</u>			
18 to 19 years	5	20	25.0
20 to 29 years	81	1035	7.8
30 to 39 years	59	1291	4.6
40 to 49 years	31	657	4.7
50 to 59 years	7	204	3.4
60 to 69 years	1	29	3.4
<u>SHIFT</u>			
Straight days	175	2926	6.0
Rotating shifts	7	275	2.5
Straight shifts	2	35	5.7
<u>PAYROLL</u>			
Hourly	40	1067	3.7
Weekly	110	878	12.5
Monthly	34	1291	2.6