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**HEALTH DIVISION REPORT**

**FOR MONTH ENDING APRIL 30, 1952**



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**OAK RIDGE NATIONAL LABORATORY**

OPERATED BY

**CARBIDE AND CARBON CHEMICALS COMPANY**

A DIVISION OF UNION CARBIDE AND CARBON CORPORATION



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING APRIL 30, 1952

J. S. Felton, M. D.

DATE ISSUED

JUN 27 1952

OAK RIDGE NATIONAL LABORATORY  
operated by  
CARBIDE AND CARBON CHEMICALS COMPANY  
A Division of Union Carbide and Carbon Corporation  
Post Office Box P  
Oak Ridge, Tennessee

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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 Technicians	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 TIME

<u>Physicians</u>			
Administrative	1/3	0	0
Physical Examination	2/3	0	0
Dispensary Service	2/3	0	0
Health Education	1/3	0	0
<u>Nurses</u>			
Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	5	0
<u>Medical Technicians</u>			
General Laboratory	0	2	0
Blood Studies	0	1 1/2	0
Urinalysis	0	1/2	0
<u>X-ray Technician</u>			
	0	1	0
<u>Office Personnel</u>			
	0	8	0
<u>Custodial Personnel</u>			
	0	0	3
	3	18	3

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STATISTICAL SUMMARY

Severity Rate . . . . . 4.3 days lost per illness absence.  
 Disability Rate . . . . . 18.9 days lost per 1000 days scheduled.  
 Frequency Rate . . . . . 4.4 illness absences per 1000 days scheduled.  
 Visit Rate . . . . . 59.0 visits per 1000 days scheduled.

Number of patients

Employee . . . . . 1735  
 Non-employee  
 A.E.C. . . . . 11  
 du Pont (Savannah) . . . . 34  
 Phillips Petroleum . . . . . 1  
 American Cyanamid . . . . . 1  
 Other . . . . . 58  
 Total . . . . . 105  
 Prospective employees . . . . . 23  
 Total patients . . . . . 1863

Number of patients seen at X-10 Dispensary . . . . . 1617  
 Number of patients seen at Y-12 Dispensary . . . . . 246  
 Total patients . . . . . 1863

Number of visits

Employee  
 X-10 Dispensary . . . . . 3565  
 Y-12 Dispensary . . . . . 519  
 Total . . . . . 4084  
 Non-employee  
 A.E.C. . . . . 13  
 duPont (Savannah) . . . . . 92  
 Phillips Petroleum . . . . . 1  
 American Cyanamid . . . . . 1  
 Other . . . . . 151  
 Total . . . . . 258  
 Total visits . . . . . 4342

Number of procedures

Procedures performed at X-10 . . . . . 5427  
 Procedures performed at Y-12 . . . . . 534  
 Preliminary procedures . . . . . 136  
 Total procedures . . . . . 6097

Number of employees at the Laboratory . . . . . 3144

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STATISTICAL SUMMARY (Continued from page 4)

Percent Employees visiting Dispensary . . . . .	55.2
Number of Visits per Employee . . . . .	1.3
Percent of Visitors Visiting Dispensary . . . . .	18.1
Number of Visits per Visitor . . . . .	.4
Number of Illness Absences per Employee . . . . .	.1
Ratio of Occupational to Non-occupational Procedures . . . . .	1: 0.6
Ratio of Non-occupational to Occupational Injuries, first visit . . . . .	1: 2.4
Ratio of Non-occupational to Occupational Injuries, all visits . . . . .	1: 4.4
Ratio of Occupational to Non-occupational Illnesses, first visits . . . . .	1: 306
Ratio of Occupational to Non-occupational Illnesses, all visits . . . . .	1: 49.6
Ratio of Occupational to Non-occupational Absences . . . . .	1: 33.6
Ratio of Occupational to Non-occupational Days Lost . . . . .	1: *

\* There were no days lost due to occupational injuries or illnesses during the month of April.



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No. of  
Procedures

Occupational vision section procedures:		
Spectacles issued, plano	64	
Spectacles ordered, prescription	53	
Spectacles issued, prescription	33	
Ortho-Rater Examination	212	
Partial replacement	17	
Adjustment or repair	20	
Advisory service	31	
Total		430
X-ray examination:		
X-ray examination, non-occupational	38	
X-ray examination, occupational	246	
Total		284
Special study interview		101
Clinical photograph		16
Dispensary visit, patient not seen		14
Psychologic consultation		6
Psychiatric consultation		9
Balisticcardiogram		1
Vocational Rehabilitation interview		13
Psychodiagnostic test		1
Consultation, occupational conditions		6
Consultation, non-occupational conditions		219
Consultation without patient, occupational		4
Consultation without patient, non-occupational		69
Pre-marital serodiagnostic test		2
Immunizations		647
Diagnostic procedures for an outside M.D.		23
GRAND TOTAL		6097

∕ 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	4
Bacteriological Culture	3
Bacteriological smear	9
Blood cholesterol	1
Blood glucose	6
Complete blood count	432
Electrocardiogram	319
Feces - parasitological	4
Gastric analysis	2
P.S.P.	1

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No. of  
Procedures

Red blood count and hemaglobin	9
Rh factor	72
Sedimentation rate	11
Typing - blood	61
Urinalysis	472
Blood alcohol	1
Vital capacity	7
Venipuncture for Kahns to send to state laboratory	322
Sperm count	1
White blood count and differential	14
Heterophile	1
Total	1752

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DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	5225
Return to modified or part-time work	355
Remain off work	438
Rejected	2
Accepted conditionally	2
Accepted	49
Sent to hospital or physicians office	26
	6097

ATTENDANT

Psychiatrist	8
First aid attendant	36
First aid attendant and nurse	5
First aid attendant, nurse and doctor	3
Nurse	2813
Nurse and doctor	269
Doctor	844
Doctor and first-aid attendant	17
Technician	2096
Psychologist	6
	6097

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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	34	0
1 day	116	116
2 days	36	72
3 days	22	66
4 days	15	60
5 days	22	110
6 days	12	72
7 days	14	98
8 days	2	16
9 days	3	27
10 days	5	50
12 days	5	60
13 days	2	26
14 days	4	56
15 days	3	45
16 days	2	32
17 days	1	17
19 days	1	19
20 days	1	20
21 days	1	21
26 days	4	104
31 days	1	31
37 days	1	37
39 days	1	39
41 days	1	41
45 days	1	45
50 days	1	50
	311	1330

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NUMBER OF DIAGNOSES FOR ALL VISITS

No. of Diagnoses

INJURIES

Non-occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	52
Lacerations	36
Contusions	17
Strains and sprains	26
Foreign body	7
Burns (thermal, chemical and radiant)	20
Fractures	13
Head injury	1
Poisonings	2
Miscellaneous	5

Total

179

Occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	143
Lacerations	215
Contusions	118
Strains and sprains	45
Foreign body	26
Burns (thermal, chemical and radiant)	139
Fractures	15
Amputations	1
Head injury	7
Internal injury	4
Poisonings	7
Miscellaneous	1

Total

721

GRAND TOTAL OF INJURY

900

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No. of Diagnoses

ILLNESSES

Non-occupational:

Respiratory	845	
Digestive	222	
Circulatory	84	
Diseases of the blood and blood-forming organs	20	
Genito-urinary	134	
Bones and joints	195	
Diseases of the skin	118	
Dermatitis	22	
Diseases of the eye	130	
Diseases of the ear	51	
Allergic, endocrine, metabolic, etc.	99	
Diseases of the thyroid	162	
Infectious diseases	73	
Psychoneurotic disorders	23	
Common and benign tumors	13	
Symptoms and ill-defined conditions	131	
Total		2322

Occupational:

Dermatitis	36	
Total		36

GRAND TOTAL OF ILLNESSES 2358

No abnormal findings	21
General medical examinations	2
Persons receiving prophylactic inoculation and vaccination	7
Follow-up examination after operation, injury or disease other than tuberculosis	38
Normal pregnancy	9
Consultation regarding sick relative	11

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	<u>No. of Diagnoses</u>
Medical and surgical aftercare	43
Immunizations	681
Loss due to accident by cutting and piercing instruments	1
Loss due to other and unspecified accidents and poisonings except war	2
Congenital malformations	20
Operations as cause of absences	25
Deliveries and complications of pregnancy, childbirth, and the puerperium	1
Neoplasms	11
 Total	 872
 TOTAL DIAGNOSES	 4130
 Special services <u>not</u> involving diagnoses	 2291
 GRAND TOTAL	 <u>7293</u>

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of</u> <u>Absences</u>	<u>Days</u> <u>Lost</u>
<u>INJURIES</u>		
Superficial injuries, abrasions blisters, insect bites, scratches	1	1
Contusions	1	1
Strains and sprains	5	44
Foreign bodies	1	0
Fractures	4	0
Head injury	1	16
<u>ILLNESSES</u>		
Respiratory	152	563
Digestive system	44	88
Circulatory	6	67
Genito-urinary	26	69
Bones and joints	10	16
Diseases of the skin	2	12
Occupational dermatitis	1	0
Non-occupational dermatitis	1	7
Allergic, endocrine and metabolic diseases	5	8
Diseases of the thyroid gland	1	50
Infectious diseases	8	34
Psychoneurotic disorders	3	9
Symptoms and ill-defined conditions	14	19
General medical examination	2	13
Follow-up examination after operation, injury or disease other than tuberculosis	3	91
Operations as cause for absences	18	209
Deliveries and complications of pregnancy, childbirth and the puerperium	1	13
 Total	 311	 1330

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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	4084	3144	1.3
<u>SEX</u>			
Male	3366	2618	1.3
Female	718	526	1.4
<u>OCCUPATION</u>			
Life scientist	26	63	1.4
Physical scientist	520	541	1.0
Engineer	388	454	1.2
Technical assistant	650	460	1.4
Administrative and managerial personnel	190	152	1.3
Clerical	468	373	1.3
Laborer	207	117	1.8
Maintenance	77	67	1.1
Protective	237	176	1.3
Craftsman	1064	601	1.8
Chemical operator	155	93	1.7
Equipment operator	102	47	2.2
<u>RACE</u>			
White	3803	2963	1.3
Colored	280	177	1.6
Yellow	1	4	1.3
<u>MARITAL STATUS</u>			
Married	3357	2536	1.3
Single	624	544	1.1
Widowed	30	38	1.8
Divorced	73	26	2.8
<u>HEALTH STATUS*</u>			
H-1	650	589	1.1
H-2	3076	2315	1.3
H-3	350	238	1.5
H-4	5	0	0
H-5	3	2	1.5

- \*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	148	101	1.5
Physics	73	96	.8
Chemistry	92	115	.8
Reactor Experimental Engineering	75	97	.8
Biology	61	113	.5
Metallurgy	202	148	1.4
Reactor Projects	1	1	1.0
Education Relations and Training	48	65	.7
Health Physics	154	111	1.4
Engineering and Maintenance	1618	952	1.7
Industrial Relations	233	171	1.4
Health	34	25	1.4
General Office	152	154	1.0
Laboratory Protection	242	191	1.3
Directors	28	37	.8
Analytical Chemistry	324	200	1.6
Math Panel	34	26	1.3
Chemical Technology	166	144	1.2
Information and Reports	101	78	1.3
Materials Chemistry	70	65	1.1
Research Director	66	74	.9
Electromagnetic Research	57	51	1.1
Isotope Research and Production	44	63	.7
ANP	58	62	.9
Assistant Research Director	3	2	1.5
Solid State Division	0	2	0
<u>AGE GROUP</u>			
18 to 19 years	35	17	2.1
20 to 29 years	1283	1018	1.3
30 to 39 years	1566	1286	1.2
40 to 49 years	896	599	1.5
50 to 59 years	260	196	1.3
60 to 69 years	44	28	1.6
<u>SHIFT</u>			
Straight days	3629	2831	1.3
Rotating shifts	413	278	1.5
Straight shift	42	35	1.2
<u>PAYROLL</u>			
Hourly	1824	1070	1.7
Weekly	1173	867	1.4
Monthly	1087	1207	.9

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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	910	57596	1.6
Female	400	11572	3.5
<u>OCCUPATION</u>			
Life scientist	24	1386	1.7
Physical scientist	165	11902	1.4
Engineer	179	9988	1.8
Technical assistant	226	10120	2.2
Administrative and managerial personnel	96	3344	2.9
Clerical personnel	226	8206	2.8
Laborer	27	2574	1.0
Maintenance personnel	35	1474	2.4
Protective personnel	96	3872	2.5
Craftsman	217	13222	1.6
Chemical operator	10	2046	.5
Equipment operator	9	1034	.9
<u>RACE</u>			
White	1222	65186	1.9
Colored	88	3894	2.3
Yellow	0	88	0
<u>MARITAL STATUS</u>			
Married	1121	55792	2.0
Single	153	11968	1.3
Widowed	24	836	2.9
Divorced	12	572	2.1
<u>HEALTH STATUS*</u>			
H-1	136	12958	1.0
H-2	1062	50930	2.1
H-3	112	5236	2.1
H-4	0	0	0
H-5	0	44	0

- \* H-1 Physically qualified for any position.
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- 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	17	2222	.8
Physics	31	2112	1.5
Chemistry	3	2530	.1
Reactor Experimental Engineering	28	2134	1.3
Biology	38	2486	1.5
Metallurgy	68	3256	2.1
Reactor Projects	0	22	0
Education Relations and Training	2	1430	.1
Health Physics	53	2442	2.2
Engineering and Maintenance	305	20944	1.5
Industrial Relations	147	3762	3.9
Health	21	550	3.8
General Office	68	3388	2.0
Laboratory Protection	111	4202	2.6
Directors	7	814	.9
Analytical Chemistry	132	4400	3.0
Math Panel	3	572	.5
Chemical Technology	44	3168	1.4
Information and Reports	38	1716	2.2
Materials Chemistry	68	1430	4.8
Research Director	10	1628	.6
Electromagnetic Research	17	1122	1.5
Isotope Research and Production	14	1386	1.0
ANP	85	1364	6.2
Assistant Research Director	0	44	0
Solid State Division	0	44	0
<u>AGE GROUP</u>			
18 to 19 years	13	374	3.5
20 to 29 years	331	22396	1.5
30 to 39 years	509	28292	1.8
40 to 49 years	259	13178	2.0
50 to 59 years	196	4312	4.5
60 to 69 years	2	616	.3
<u>SHIFT</u>			
Straight days	1158	62282	1.9
Rotating shifts	152	6116	2.5
Straight shift	0	770	0
<u>PAYROLL</u>			
Hourly	394	23540	1.7
Weekly	587	19074	3.1
Monthly	329	26554	1.2

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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	277	3144	8.8
<u>SEX</u>			
Male	167	2618	6.4
Female	110	526	20.9
<u>OCCUPATION</u>			
Life scientist	4	63	6.3
Physical scientist	36	541	6.7
Engineer	29	454	6.4
Technical assistant	58	460	12.6
Administrative and managerial personnel	14	152	9.2
Clerical personnel	76	373	20.4
Laborer	7	117	6.0
Maintenance Personnel	7	67	10.4
Protective personnel	7	176	4.0
Craftsman	31	601	5.2
Chemical operator	5	93	5.4
Equipment operator	3	47	6.4
<u>RACE</u>			
White	265	2963	8.9
Colored	12	177	6.8
Yellow	0	4	0
<u>MARITAL STATUS</u>			
Married	209	2536	8.2
Single	54	544	9.9
Widowed	4	38	10.5
Divorced	10	26	38.5
<u>HEALTH STATUS*</u>			
H-1	33	589	5.6
H-2	217	2315	9.4
H-3	27	238	11.3
H-4	0	0	0
H-5	0	2	0

- \* H-1 Physically qualified for any position.  
 H-2 Physically qualified for any position, but has minor defects.  
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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	8	101	7.9
Physics	8	96	8.3
Chemistry	3	115	2.6
Reactor Experimental Engineering	5	97	5.2
Biology	6	113	5.3
Metallurgy	18	148	12.2
Reactor Projects	0	1	0
Education Relations and Training	2	65	3.1
Health Physics	12	111	10.8
Engineering and Maintenance	67	952	7.0
Industrial Relations	21	171	12.3
Health	5	25	20.0
General Office	14	154	9.1
Laboratory Protection	8	191	4.2
Directors	4	37	10.8
Analytical Chemistry	32	200	16.0
Math Panel	1	26	3.8
Chemical Technology	15	144	10.4
Information and Reports	13	78	16.7
Materials Chemistry	13	65	20.0
Research Director	5	74	6.8
Electromagnetic Research	3	51	5.9
Isotope Research and Production	8	63	12.7
ANP	6	62	9.7
Assistant Research Director	0	2	0
Solid State Division	0	2	0
<u>AGE GROUP</u>			
18 to 19 years	2	17	11.8
20 to 29 years	97	1018	9.5
30 to 39 years	111	1286	8.6
40 to 49 years	48	599	8.0
50 to 59 years	18	196	9.2
60 to 69 years	1	28	3.6
<u>SHIFT</u>			
Straight days	257	2831	9.1
Rotating shifts	19	278	6.8
Straight shifts	1	35	2.9
<u>PAYROLL</u>			
Hourly	60	1070	5.6
Weekly	148	867	17.1
Monthly	69	1207	5.7