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HEALTH DIVISION REPORT
FOR THE MONTH ENDING FEBRUARY 29, 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 FEBRUARY 29, 1952

J. S. Felton, M. D.

DATE ISSUED

JUN 24 1952

OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS COMPANY
A Division of Union Carbide and Carbon Corporation
Post Office Box P
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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
	<u>3</u>	<u>18</u>	<u>3</u>

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>	<u>0</u>	<u>0</u>	<u>3</u>
	3	18	3

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STATISTICAL SUMMARY

Severity Rate	4.3 days lost per illness absence
Disability Rate	29.0 days lost per 1000 days scheduled.
Frequency Rate	6.7 illness absences per 1000 days scheduled
Visit Rate	59.0 visits per 1000 days scheduled.

Number of patients

Employee	1714
Non-employee	
A.E.C.	29
du Pont (Savannah)	36
Phillips Petroleum	1
Bechtal	1
Other	45
Total	112
Prospective employees	17
Total patients	1843

Number of patients seen at X-10 Dispensary	1607
Number of patients seen at Y-12 Dispensary	236
Total patients	1843

Number of visits

Employee	
X-10 Dispensary	3341
Y-12 Dispensary	485
Total	3826
Non-employee	
A.E.C.	31
Bechtal	2
du Pont (Savannah)	67
Phillips Petroleum	5
Other	89
Total	194
Total visits	4020

Number of procedures

Procedures performed at X-10	4849
Procedures performed at Y-12	510
Preliminary procedures	104
Total procedures	5463

Number of employees at the Laboratory	3090
-------------------------------------------------	------

STATISTICAL SUMMARY (continued from page 4)

Percent Employees visiting Dispensary	55.5
Number of Visits per Employee	1.2
Percent of Visitors Visiting Dispensary	20.7
Number of Visits per Visitor3
Number of Illness Absences per Employee1
Ratio of Occupational to Non-occupational Procedures1 : 0.8
Ratio of Non occupational to Occupational Injuries, first visit.1 : 3.0
Ratio of Non-occupational to Occupational Injuries, all visits1 : 4.1
Ratio of Occupational to Non-occupational Illnesses, first visit1 : 509.5
Ratio of Occupational to Non-occupational Illnesses, all visits1 : 202.6
Ratio of Occupational to Non-occupational Absences1 : 87.2
Ratio of Occupational to Non-occupational Days Lost1 : 116.4

PROCEDURES ACCOMPLISHED FOR THE MONTH OF FEBRUARY 1952

	<u>No. of Procedures</u>
Non-occupational injury	55
" " " " " , revisit	81
Non-occupational illness	1019
" " " " " , revisit	399
Occupational injury or exposure, chemical	13
" " " " " " , revisit	29
Occupational injury or exposure, chemical, a.o.q.*	0
" " " " " " " , revisit	0
Occupational injury or exposure, n.o.c.**	156
" " " " " " " , revisit	364
Occupational injury, n.o.c.**, a.o.q.*	0
" " " " " " " , revisit	0
Occupational injury or exposure, radiation	0
" " " " " " " , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	0
" " " " " " " " , revisit	0
Occupational illness, n.o.c.**	2
" " " " " " " , revisit	5
Absence due to illness or injury, non-occupational	439
" " " " " " " " , occupational	5
Physical examination, industrial hygiene	141
Physical examination, job transfer	21
Physical examination, periodic health	57
Physical examination, preplacement	40
Physical examination, rehire	5
Physical examination, termination	30
Physical examination, other	30
Physical examination, food handler	0
Audiogram	285
Blood donation	2
Clinical laboratory procedure /	556
Electrocardiogram	259
Field clinical laboratory procedure	38

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

		<u>No. of Procedures</u>
Occupational vision section procedures:		
Spectacles issued, plano	32	
Spectacles ordered, prescription	29	
Spectacles issued, prescription	32	
Orthorater examination	253	
Partial replacement	16	
Adjustment or repair	19	
Advisory service	18	
Total		399
X-ray examination:		
X-ray examination, non-occupational	35	
X-ray examination, occupational	170	
Total		205
Special study interview		0
Clinical photograph		8
Dispensary visit, patient not seen		15
Psychologic consultation		5
Psychiatric consultation		10
Psychodiagnostic test		1
Consultation, occupational condition		5
Consultation, non occupational condition		188
Consultation without patient, occupational		5
Consultation without patient, non-occupational		49
Home visit		5
Pre-marital serodiagnostic test		1
Immunizations		468
Diagnostic procedure for outside physician		68
GRAND TOTAL		5463

/ 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	3
Bacteriological culture	1
Bacteriological smear	5
Basal Metabolism	2
Bleeding time	1
Blood glucose	16
Blood N.P.N.	1
Clotting time	1
Complete blood count	433
Feces, parasitological	1
Gastric analysis	9
Red blood count and hemoglobin	10
Rh factor	165
Sedimentation rate	12
Sputum	1
Typing - blood	87
Urinalysis	486
Venipuncture for V.D.R.L.	305
White blood count and differential	16
Sperm count	3
Total	1558

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DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	4731
Return to modified or part-time work	288
Remain off work	385
Rejected	2
Accepted conditionally	2
Accepted	41
Sent to hospital or physician's office	14
	5463

ATTENDANT

Psychiatrist	10
First aid attendant	97
First aid attendant and nurse	13
First aid attendand, nurse and doctor	8
Nurse	2615
Nurse and doctor	216
Doctor	653
Doctor and first aid attendant	7
Technician	1838
Psychologist	6
	5463

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TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	29	0
1 day	127	127
2 days	79	158
3 days	39	117
4 days	19	76
5 days	42	210
6 days	18	108
7 days	21	147
8 days	7	56
9 days	8	72
10 days	10	100
11 days	8	88
12 days	4	48
13 days	5	65
14 days	6	84
15 days	6	90
16 days	2	32
17 days	3	51
18 days	1	18
20 days	4	80
21 days	1	21
25 days	1	25
27 days	1	27
32 days	1	32
34 days	1	34
35 days	1	35
	444	1901

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NUMBER OF DIAGNOSES FOR ALL VISITS

	<u>No. of Diagnoses</u>
<u>INJURIES</u>	
Non-occupational:	
Superficial injuries (abrasions, blisters, insect bites, scratches)	37
Lacerations	38
Contusions	23
Strains and sprains	19
Foreign body	2
Burns (thermal, chemical and radiant)	12
Fractures	9
Head injury	1
Miscellaneous	12
Total	153
Occupational:	
Superficial injuries (abrasions, blisters, insect bites, scratches)	128
Lacerations	197
Contusions	69
Strains and sprains	47
Foreign body	14
Burns (thermal, chemical and radiant)	108
Fractures	3
Amputations	13
Head injury	14
Internal injury	1
Poisoning by other gases and vapors	2
Miscellaneous	2
Total	598
Grand total of injury	751

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No. of Diagnoses

ILLNESSES

Non-occupational:

Respiratory		1210
Digestive		163
Circulatory		67
Disease of blood and blood-forming organs		4
Genito-urinary		105
Bones and joints		167
Diseases of the skin		93
Dermatitis:		
Due to plants	2	
Due to drugs	1	
Due to other		
specified agents	10	
Unqualified	5	18
Diseases of eye		88
Diseases of ear		47
Allergic, endocrine, metabolic, etc		65
Diseases of the thyroid gland		60
Infectious diseases		94
Psychoneurotic disorders		12
Common benign tumors		7
Symptoms and ill-defined conditions		101

Total 2301

Occupational:

Circulatory		1
Diseases of skin		2
Dermatitis:		
Due to other chemicals	9	
Other causes	2	11

Total 14

Total diagnoses of illness 2315

No abnormal findings		16
General medical examination		1
Persons receiving prophylactic inoculation and vaccination		7
Follow-up examination for tuberculosis, not needing further medical care		21
Normal pregnancy		4
Medical and surgical aftercare		20
Immunizations		494

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	<u>No. of Diagnoses</u>
Loss due to other and unspecified accidents and poisonings except war	1
Congenital malformations	12
Operations as cause of absences	15
Deliveries and complications of pregnancy	1
Neoplasms	12
 Total	 604
 TOTAL DIAGNOSES	 3670
 Special services <u>not</u> involving diagnoses	 2112
 GRAND TOTAL	 <u>5782</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	10
Contusions	1	5
Strains and sprains	2	9
Burns (thermal, chemical)	1	1
Fractures	2	32
Miscellaneous	2	4
<u>ILLNESSES</u>		
Respiratory	327	1359
Digestive	33	89
Circulatory	4	50
Genito-urinary	24	60
Bones and joints	8	15
Non-occupational dermatitis	1	6
Diseases of eye	1	13
Diseases of ear	5	7
Allergic, endocrine, metabolic, etc.	1	1
Infectious diseases	7	110
Symptoms and ill-defined conditions	12	27
General medical examination	1	5
Follow-up examination after operation, injury or disease other than tuberculosis	1	20
Operations as causes of absences	9	66
Deliveries and complications of pregnancy	1	12
Total	444	1901

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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	3826	3090	1.2
<u>SEX</u>			
Male	3139	2566	1.2
Female	687	524	1.3
<u>OCCUPATION</u>			
Life scientist	31	61	.5
Physical scientist	557	527	1.1
Engineer	356	442	.8
Technical assistant	700	439	1.6
Administrative and managerial personnel	146	152	1.0
Clerical	468	371	1.3
Laborer	108	118	.9
Maintenance	85	57	1.5
Protective	252	173	1.5
Craftsman	909	607	1.5
Chemical operator	158	89	1.8
Equipment operator	56	54	1.0
<u>RACE</u>			
White	3600	2919	1.2
Colored	222	168	1.3
Yellow	4	3	1.3
<u>MARITAL STATUS</u>			
Married	3065	2486	1.2
Single	652	540	1.2
Widowed	70	38	1.8
Divorced	39	26	1.5
<u>HEALTH STATUS*</u>			
H-1	641	588	1.1
H-2	2845	2266	1.3
H-3	340	236	1.4
H-5	0	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-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	168	97	1.7
Physics	67	97	.7
Chemistry	99	114	.9
Reactor Experimental Engineering	74	94	.8
Biology	81	112	.7
Metallurgy	233	143	1.6
Reactor Projects		1	
Education Relations and Training	91	65	1.4
Health Physics	128	109	1.2
Engineering and Maintenance	1206	960	1.3
Industrial Relations	192	157	1.2
Health	28	25	1.1
General Office	196	153	1.3
Laboratory Protection	275	187	1.5
Directors	24	38	.6
Analytical Chemistry	348	183	1.9
Math Panel	8	25	.3
Chemical Technology	199	139	1.4
Information and Reports	92	75	1.2
Materials Chemistry	115	65	1.8
Research Director	70	73	1.0
Electromagnetic Research	35	49	.7
Isotope Research and Production	39	62	.6
ANP	54	63	.9
Assistant Research Director	2	2	1.0
Solid State Division	2	2	1.0
<u>AGE GROUP</u>			
18 to 19 years	38	17	2.2
20 to 29 years	1275	1003	1.3
30 to 39 years	1456	1262	1.2
40 to 49 years	726	590	1.2
50 to 59 years	306	195	1.6
60 to 69 years	25	23	1.1
<u>SHIFT</u>			
Straight days	3304	2773	1.2
Rotating shifts	459	282	1.6
Straight shift	63	35	1.8
<u>PAYROLL</u>			
Hourly	1534	1072	1.4
Weekly	1191	853	1.4
Monthly	1101	1165	.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	1360	53886	2.5
Female	519	11004	4.7
<u>OCCUPATION</u>			
Life scientist	4	1281	.3
Physical scientist	211	11067	1.9
Engineer	234	9282	2.5
Technical assistant	296	9219	3.2
Administrative and managerial personnel	40	3192	1.3
Clerical personnel	422	7791	5.4
Laborer	103	2478	4.2
Maintenance personnel	64	1197	5.3
Protective personnel	58	3633	1.6
Craftsman	391	12747	3.1
Chemical operator	7	1869	.4
Equipment operator	49	1134	4.3
<u>RACE</u>			
White	1742	61299	2.8
Colored	137	3528	3.9
Yellow		63	
<u>MARITAL STATUS</u>			
Married	1528	52206	2.9
Single	324	11340	2.9
Widowed	8	798	1.0
Divorced	19	546	3.5
<u>HEALTH STATUS*</u>			
H-1	297	12348	2.4
H-2	1295	47586	2.7
H-3	287	4956	5.8
H-5	0	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-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	18	2037	.9
Physics	43	2037	2.1
Chemistry	79	2394	3.3
Reactor Experimental Engineering	31	1974	1.6
Biology	38	2352	1.6
Metallurgy	79	3003	2.6
Reactor Projects		21	
Education Relations and Training	1	1365	.1
Health Physics	36	2289	1.6
Engineering and Maintenance	748	20160	3.7
Industrial Relations	122	3297	3.7
Health	11	525	2.1
General Office	114	3213	3.5
Laboratory Protection	61	3927	1.6
Directors	6	798	.8
Analytical Chemistry	136	3843	3.5
Math Panel	12	525	2.3
Chemical Technology	71	2919	2.4
Information and Reports	68	1575	4.3
Materials Chemistry	70	1365	5.1
Research Director	32	1533	2.1
Electromagnetic Research	30	1029	2.9
Isotope Research and Production	18	1302	1.4
ANP	55	1323	4.2
Assistant Research Director		42	
Solid State Division		42	
<u>AGE GROUP</u>			
18-19 years	16	357	4.5
20-29 years	550	21063	2.6
30-39 years	717	26502	2.7
40-49 years	399	12390	3.2
50-59 years	177	4095	4.3
60-69 years	20	483	4.1
<u>SHIFT</u>			
Straight days	1725	58233	3.0
Rotating shifts	145	5922	2.4
Straight shift	9	735	1.2
<u>PAYROLL</u>			
Hourly	642	22512	2.9
Weekly	797	17913	4.4
Monthly	440	24465	1.8

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

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
TOTAL	395	3090	12.8
<u>SEX</u>			
Male	264	2566	10.3
Female	131	524	25.0
<u>OCCUPATION</u>			
Life scientist	3	61	4.9
Physical scientist	56	527	10.6
Engineer	43	442	9.7
Technical assistant	68	439	15.5
Administrative and managerial personnel	10	152	6.6
Clerical personnel	98	371	26.4
Laborer	15	118	12.7
Maintenance personnel	8	57	14.0
Protective personnel	13	173	7.5
Craftsman	69	607	11.4
Chemical operator	4	89	4.5
Equipment operator	8	54	14.8
<u>RACE</u>			
White	376	2919	12.9
Colored	19	168	11.3
Yellow		3	
<u>MARITAL STATUS</u>			
Married	301	2486	12.1
Single	80	540	14.8
Widowed	2	38	5.3
Divorced	12	26	46.2
<u>HEALTH STATUS*</u>			
H-1	59	588	10.0
H-2	297	2266	13.1
H-3	39	236	16.5
H-5	0	0	

*H-1 Physically qualified for any position.

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

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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	9	97	9.3
Physics	8	97	8.2
Chemistry	12	114	10.5
Reactor Experimental Engineering	7	94	7.4
Biology	7	112	6.3
Metallurgy	24	143	16.8
Reactor Projects		1	
Education Relations and Training	1	65	1.5
Health Physics	12	109	11.0
Engineering and Maintenance	122	960	12.7
Industrial Relations	23	157	14.6
Health	5	25	20.0
General Office	22	153	14.4
Laboratory Protection	15	187	8.0
Directors	2	38	5.3
Analytical chemistry	39	183	21.3
Math Panel	1	25	4.0
Chemical Technology	19	139	13.7
Information and Reports	19	75	25.3
Materials Chemistry	15	65	23.1
Research Director	13	73	17.8
Electromagnetic Research	4	49	8.2
Isotope Research and Production	8	62	12.9
ANP	8	63	12.7
Assistant Research Director		2	
Solid State Division		2	
<u>AGE GROUP</u>			
18-19 years	4	17	23.5
20-29 years	140	1003	14.0
30-39 years	155	1262	12.3
40-49 years	64	590	10.8
50-59 years	31	195	15.9
60-69 years	1	23	4.3
<u>SHIFT</u>			
Straight days	365	2773	13.2
Rotating shifts	27	282	9.6
Straight shifts	3	35	8.6
<u>PAYROLL</u>			
Hourly	114	1072	10.6
Weekly	179	853	21.0
Monthly	102	1165	8.8