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HEALTH DIVISION
REPORT FOR THE MONTH
ENDING JANUARY 31, 1950

OAK RIDGE NATIONAL LABORATORY

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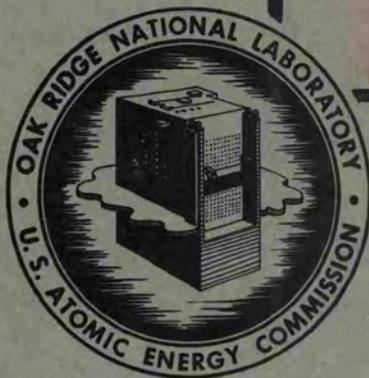
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HEALTH DIVISION

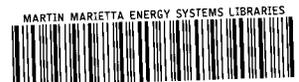
REPORT FOR THE MONTH ENDING JANUARY 31, 1950

J. S. FELTON, M.D.

DATE ISSUED SEP 11 1950

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

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DISTRIBUTION OF EFFORT FOR THE MONTH OF JANUARY, 1950

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicians	3	0	0
Industrial Hygiene Engineer	1	0	0
Industrial Designer	1	0	0
Nurses	1	5	0
Medical Technicians	0	3	0
Office Personnel	1	8	0
Custodial Personnel	0	0	2
	<u>7</u>	<u>16</u>	<u>2</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	1 2/3	0	0
Dispensary Service	1	0	0
<u>Industrial Designer</u>			
	1	0	0
<u>Industrial Hygiene Engineer</u>			
	1	0	0
<u>Nurses</u>			
Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	5	0
<u>Medical Technicians</u>			
General Laboratory	0	1	0
Blood Studies	0	1/2	0
Urinalysis	0	1/2	0
X-ray	0	1	0
<u>Office Personnel</u>			
	1	8	0
<u>Custodial Personnel</u>			
	0	0	2
	<u>7</u>	<u>16</u>	<u>2</u>

STATISTICAL SUMMARY

Severity Rate 3.6 days lost per absence
 Disability Rate 20.3 days lost per 1000 days' scheduled
 Frequency Rate 5.6 absences per 1000 days scheduled

Number of Patients

Employee 1045
 Non-Employee 230
 Total 1275

Number of Visits

Employee 2507
 Non-Employee
 J. A. Jones Const. Co..... 96
 A. E. C..... 116
 Austin Co..... 8
 Other..... 45
 Total 265
 Total All Visits 2772

Number of Procedures 4107

Number of Employees at the Laboratory 2507
 Percent of Employees Visiting Dispensary 50.8
 Number of Visits per Employee 1.2
 Number of Illness Absences per Employee 0.1

Ratio of Occupational to Non-occupational Procedures 1 : 0.8
 Ratio of Non-occupational to Occupational Injuries, first visit ... 1 : 1.3
 Ratio of Non-occupational to Occupational Injuries, all visits 1 : 2.5
 Ratio of Occupational to Non-occupational Illnesses, first visit .. *
 Ratio of Occupational to Non-occupational Illnesses, all visits ... *
 Ratio of Occupational to Non-occupational Absences /
 Ratio of Occupational to Non-occupational Days Lost /

* Ratios are not given since there were no occupational illnesses for the month of January.

/ Ratios are not given since there were no occupational absences or days lost for the month of January.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF JANUARY 1950

	<u>No. of Procedures</u>
Non-occupational injury	69
" " , revisit	71
Non-occupational illness	853
" " , revisit	383
Occupational injury or exposure, chemical	7
" " " " , " , revisit	28
Occupational injury or exposure, chemical, a.o.q.*	0
" " " " , " , " , revisit	0
Occupational injury or exposure, n.o.c.**	85
" " " " , " , revisit	236
Occupational injury or exposure, 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.**	0
" " " , revisit	0
Absence due to illness or injury, non-occupational	241
Absence due to illness or injury, occupational	0
Physical examination, industrial hygiene	56
Physical examination, pre-placement	26
Physical examination, rehire	4
Physical examination, periodic health	212
Physical examination, job transfer	4
Physical examination, termination	8
Physical examination, food handler	0
Physical examination, other	6
Audiogram	225
Blood donation	4
Clinical laboratory procedure †	521
Electrocardiogram	98
Field clinical laboratory procedure	0

*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	22	
Spectacles ordered, prescription	12	
Spectacles issued, prescription	15	
Orthorater examination	225	
Orthorater examination, field	0	
Partial replacement	7	
Adjustment or repair	12	
Advisory service	3	
Total		296
X-ray examination:		
X-ray examination, non-occupational condition	48	
X-ray examination, occupational condition	307	
Total		355
Special study interview		0
Psychodiagnostic test		12
Consultation, non-occupational condition		174
Consultation, occupational condition		7
Consultation, without patient, non-occupational		18
Consultation, without patient, occupational		1
Home visit		0
Pre-marital serodiagnostic test		0
Immunization		83
Diagnostic procedure for an outside physician		24
GRAND TOTAL		4107

† The figure on page 5 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:

Bacteriological Smear	4
Basal Metabolism	5
Blood Cholesterol	1
Blood Glucose	21
Complete Blood Count	337
Feces - Bacteriological	21
Feces - Parasitological	30
Kahn	202
Malarial Parasites	2
Red Blood Count and Hemaglobin	7
Reticulocyte Count	1
Rh Factor	20
Sedimentation Rate	13
Typing - Blood	20
Urinalysis	411
Vital Capacity	41
White Blood Count and Differential	47
Total	1183

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3563
Return to modified or part-time work	317
Remain off work	104
Granted leave	1
Died in plant	0
New employee, rejected	0
New employee, accepted conditionally	1
New employee, accepted	29
Sent to hospital or physician's office	92
AGGREGATE	4107

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	1
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	0
Nurse	1628
Nurse and Doctor	213
Doctor	860
Doctor and First Aid Attendant	0
Technician	1337
Psychologist	68
AGGREGATE	4107

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	15	0
1 day	102	102
2 days	41	82
3 days	23	69
4 days	13	52
5 days	9	45
6 days	4	24
7 days	1	7
8 days	8	64
9 days	7	63
10 days	3	30
11 days	1	11
12 days	2	24
13 days	1	13
14 days	2	28
16 days	1	16
19 days	3	57
23 days	1	23
29 days	1	29
35 days	1	35
38 days	1	38
52 days	1	52
AGGREGATE	<u>241</u>	<u>864</u>

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	34	
Blood abnormality	10	
Cardio-vascular disease	23	
Dental disorder	22	
Dermatitis	63	
Endocrine disorder	82	
Eye and ear disorder	64	
Gastro-intestinal disease	126	
Genito-urinary disease	38	
Hernia	9	
Infections and parasitic disease	113	
Menstrual disease	26	
Nervous and mental state, neurologic disorder	90	
New growth	22	
Orthopedic disorder	105	
Pain and headache	90	
Respiratory disease	732	
Tuberculosis	0	
Miscellaneous	79	
Aggregate		1728
Injuries:		
Injuries	497	
Injuries, potential	0	
Aggregate		497
Operative procedure		24
Total		2249
Special services not involving diagnosis		1858
GRAND TOTAL		4107

ABSENCE AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of</u> <u>Absences</u>	<u>Days</u> <u>Lost</u>
Illnesses:		
Allergy	2	10
Blood abnormality	0	0
Cardio-vascular disease	3	43
Dental disorder	2	5
Dermatitis	2	9
Endocrine disorder	1	5
Eye and ear disorder	6	45
Gastro-intestinal disease	27	51
Genito-urinary disease	5	37
Hernia	1	12
Infections and parasitic disease	6	56
Menstrual disease	18	18
Nervous and mental state, neurologic disorder	2	1
New growth	0	0
Orthopedic disorder	11	32
Pain and headache	8	8
Respiratory disease	127	403
Tuberculosis	0	0
Miscellaneous	7	9
Injuries:		
Injuries, non-occupational	6	40
Injuries, occupational	0	0
Operative procedures	7	80
Total	241	864

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2507	2056	1.2
<u>SEX</u>			
Female	537	385	1.4
Male	1970	1671	1.2
<u>OCCUPATION</u>			
Life scientist	21	50	0.4
Physical scientist	299	268	1.1
Engineer	186	185	1.0
Technical assistant	411	247	1.7
Administrative and managerial personnel	146	138	1.1
Clerical personnel	362	342	1.1
Laborer	94	76	1.2
Maintenance personnel	84	93	0.9
Protective personnel	235	154	1.5
Craftsman	493	373	1.3
Chemical operator	114	70	1.6
Equipment operator	62	60	1.0
<u>RACE</u>			
Colored	112	121	0.9
White	2395	1935	1.2
<u>MARITAL STATUS</u>			
Married	1904	1626	1.2
Single	519	384	1.4
Divorced	46	22	2.1
Widowed	38	24	1.6
<u>HEALTH STATUS*</u>			
H-1	606	528	1.1
H-2	1630	1293	1.3
H-3	271	235	1.2

*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.

	<u>No. of</u> <u>Visits</u>	<u>No. of</u> <u>Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	108	78	1.4
Physics	95	67	1.4
Chemistry	331	213	1.6
Technical	203	177	1.1
Biology	57	104	0.5
Metallurgy	73	48	1.5
Training Program	6	6	1.0
Graduate Training Program	0	0	
Health Physics	165	115	1.4
Engineering and Maintenance	847	693	1.2
Industrial Relations	184	176	1.0
Health	26	23	1.1
General Offices	103	134	0.8
Security	212	151	1.4
Directors	86	55	1.6
Wage Standards	0	3	0.0
Mathematics Panel	11	13	0.8
<u>AGE GROUP</u>			
18 to 19 years	7	3	2.3
20 to 29 years	1005	728	1.4
30 to 39 years	898	788	1.1
40 to 49 years	392	376	1.0
50 to 59 years	172	143	1.2
60 to 65 years	33	18	1.8
<u>SHIFT</u>			
Straight days	1925	1758	1.1
Rotating shifts	539	274	2.0
Straight shift	43	24	1.8
<u>PAYROLL</u>			
Hourly	1067	813	1.3
Weekly	735	536	1.4
Monthly	705	707	1.0

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	862**	43176	2.0
<u>SEX</u>			
Female	242	8085	3.0
Male	620	35091	1.8
<u>OCCUPATION</u>			
Life scientist	6	1050	0.6
Physical scientist	159	5628	2.8
Engineer	31	3885	0.8
Technical assistant	152	5187	2.9
Administrative and managerial personnel	38	2898	1.3
Clerical personnel	170	7182	2.4
Laborer	40	1596	2.5
Maintenance personnel	12	1953	0.6
Protective personnel	33	3234	1.0
Craftsman	205	7833	2.6
Chemical operator	13	1470	0.9
Equipment operator	3	1260	0.2
<u>RACE</u>			
Colored	43	2541	1.7
White	819	40635	2.0
<u>MARITAL STATUS</u>			
Married	702	34146	2.1
Single	107	8064	1.3
Divorced	48	462	10.4
Widowed	5	504	1.0
<u>HEALTH STATUS*</u>			
H-1	255	11088	2.3
H-2	556	27153	2.0
H-3	51	4935	1.0

*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.

**Two patients listed as visitors could not be classified in these categories.

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	28	1638	1.7
Physics	19	1407	1.4
Chemistry	113	4473	2.5
Technical	120	3717	3.2
Biology	19	2184	0.9
Metallurgy	42	1008	4.2
Training Program	0	126	0.0
Graduate Training Program	0	0	
Health Physics	45	2415	1.9
Engineering and Maintenance	320	14553	2.2
Industrial Relations	24	3696	0.6
Health	7	483	1.4
General Office	25	2814	0.9
Security	67	3171	2.1
Directors	25	1155	2.2
Wage Standards	0	63	0.0
Mathematics Panel	8	273	2.9
<u>AGE GROUP</u>			
18 to 19 years	7	63	11.1
20 to 29 years	232	15288	1.5
30 to 39 years	398	16548	2.4
40 to 49 years	164	7896	2.1
50 to 59 years	61	3003	2.0
60 to 65 years	0	378	0.0
<u>SHIFT</u>			
Straight days	786	36918	2.1
Rotating shifts	76	5754	1.3
Straight shift	0	504	0.0
<u>PAYROLL</u>			
Hourly	309	17073	1.8
Weekly	304	11256	2.7
Monthly	349	14847	1.7

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	213	2056	10.4
<u>SEX</u>			
Female	75	385	19.5
Male	138	1671	8.3
<u>OCCUPATION</u>			
Life scientist	2	50	4.0
Physical scientist	22	268	8.2
Engineer	14	185	7.6
Technical assistant	47	247	19.0
Administrative and managerial personnel	10	138	7.2
Clerical personnel	59	342	17.3
Laborer	8	76	10.5
Maintenance personnel	2	93	2.2
Protective personnel	12	154	7.8
Craftsman	31	373	8.3
Chemical operator	4	70	5.7
Equipment operator	2	60	3.3
<u>RACE</u>			
Colored	7	121	5.8
White	206	1935	10.6
<u>MARITAL STATUS</u>			
Married	152	1626	9.3
Single	50	384	13.0
Divorced	8	221	3.6
Widowed	3	24	12.5
<u>HEALTH STATUS*</u>			
H-1	48	528	9.1
H-2	144	1293	11.1
H-3	21	235	8.9

*H-1 Physically qualified for any position.

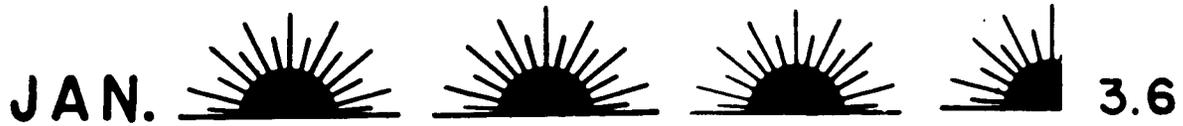
H-2 Physically qualified for any position, but has minor defects.

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

ORNL-718
January 31, 1950

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Employees</u>
<u>DIVISION</u>			
Operations	8	78	10.3
Physics	6	67	9.0
Chemistry	33	213	15.5
Technical	21	177	11.0
Biology	6	104	5.8
Metallurgy	10	48	20.8
Training Program	0	6	0.0
Graduate Training Program	0	0	
Health Physics	13	115	11.3
Engineering and Maintenance	68	693	9.8
Industrial Relations	6	176	3.4
Health	3	23	13.0
General Office	9	134	6.7
Security	19	151	12.6
Director	10	55	18.2
Wage Standards	0	3	0.0
Mathematics Panel	1	13	7.7
<u>AGE GROUP</u>			
18 to 19 years	2	3	66.7
20 to 29 years	98	728	13.5
30 to 39 years	73	788	9.3
40 to 49 years	28	376	7.4
50 to 59 years	12	143	8.4
60 to 65 years	0	18	0.0
<u>SHIFT</u>			
Straight days	187	1758	10.6
Rotating shifts	26	274	9.5
Straight shift	0	24	0.0
<u>PAYROLL</u>			
Hourly	55	813	6.8
Weekly	105	536	19.6
Monthly	53	707	7.5

SEVERITY RATE
Days Lost Per Absence
EACH SYMBOL REPRESENTS 1 DAY



DISABILITY RATE
Days Lost Per 1,000 Days Scheduled
EACH SYMBOL REPRESENTS 5%



FREQUENCY RATE
Illness Absences Per 1,000 Days Scheduled
EACH SYMBOL REPRESENTS 1 DAY



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10 %

