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ORNL 720  
Progress Report

SA

HEALTH DIVISION  
REPORT FOR THE MONTH ENDING MARCH 31, 1950



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING MARCH 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 MARCH, 1950

<u>Personnel</u>	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
Physicians	2	0	0
Industrial Hygiene Engineer	1	0	0
Industrial Designer	1	0	0
Nurses	1	5	0
Medical Technicians	0	3	0
Office Personnel	0	7	0
Custodial Personnel	0	0	2
X-ray Technician	0	1	0
	<u>5</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	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 1/2	0
Urinalysis	0	1/2	0
<u>Office Personnel</u>	0	7	0
<u>Custodial Personnel</u>	0	0	2
<u>X-ray Technician</u>	0	1	0
	<u>5</u>	<u>16</u>	<u>2</u>

STATISTICAL SUMMARY

Severity Rate ..... 3.7 days lost per absence  
 Disability Rate ..... 20.1 days lost per 1000 days scheduled  
 Frequency Rate ..... 5.4 absences per 1000 days scheduled

Number of Patients

Employee ..... 1264  
 Non-employee ..... 199  
 Total ..... 1463

Number of Visits

Employee ..... 3216  
 Non-employee  
   J. A. Jones Const. Co.... 34  
   A. E. C..... 56  
   Austin Co..... 3  
   Other..... 157  
 Total ..... 299

Total all visits ..... 3515

Number of Procedures ..... 4978

Number of Employees at the Laboratory ..... 2143  
 Percent of Employees Visiting Dispensary ..... 59.0  
 Number of Visits per Employee ..... 1.5  
 Number of Illness Absences per Employee ..... 0.1

Ratio of Occupational to Non-occupational Procedures..... 1 : 0.7  
 Ratio of Non-occupational to Occupational Injuries, first visits..... 1 : 2.0  
 Ratio of Non-occupational to Occupational Injuries, all visits..... 1 : 2.7  
 Ratio of Occupational to Non-occupational Illnesses, first visits..... \*  
 Ratio of Occupational to Non-occupational Illnesses, all visits..... \*  
 Ratio of Occupational to Non-occupational Absences..... 1 : 133.0  
 Ratio of Occupational to Non-occupational Days Lost ..... 1 : 40.2

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

PROCEDURES ACCOMPLISHED FOR THE MONTH OF MARCH 1950

	<u>No. of Procedures</u>
Non-occupational injury	75
"          "          , revisit	107
Non-occupational illness	829
"          "          , revisit	410
Occupational injury or exposure, chemical	15
"          "          "          "          , "          , revisit	22
Occupational injury or exposure, chemical, a.o.q.*	0
"          "          "          "          , "          , "          , revisit	0
Occupational injury or exposure, n.o.c.**	137
"          "          "          "          , "          , revisit	316
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.*	1
"          "          "          "          , "          , "          , revisit	0
Occupational illness, n.o.c.**	0
"          "          , "          , revisit	0
Absence due to illness or injury, non-occupational	266
Absence due to illness or injury, occupational	2
Physical examination, industrial hygiene	41
Physical examination, pre-placement	55
Physical examination, rehire	20
Physical examination, periodic health	113
Physical examination, job transfer	7
Physical examination, termination	34
Physical examination, food handler	18
Physical examination, other	54
Audiogram	239
Blood donation	5
Clinical laboratory procedure †	719
Electrocardiogram	172
Field clinical laboratory procedure	0

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

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No. of  
Procedures

Occupational vision section procedures:		
Spectacles issued, plano	42	
Spectacles ordered, prescription	28	
Spectacles issued, prescription	20	
Orthorater examination	224	
Orthorater examination, field	0	
Partial replacement	9	
Adjustment or repair	22	
Advisory service	6	
Total		351
X-ray examination:		
X-ray examination, non-occupational condition	69	
X-ray examination, occupational condition	332	
Total		401
Special study interview		0
Psychodiagnostic test		6
Consultation, non-occupational condition		253
Consultation, occupational condition		18
Consultation, without patient, non-occupational		32
Consultation, without patient, occupational		2
Home visit		0
Pre-marital serodiagnostic test		4
Immunization		240
Diagnostic procedure for an outside physician		14
GRAND TOTAL		4978

†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	6
Basal Metabolism	4
Bleeding Time	1
Blood Cholesterol	1
Blood Creatinin	1
Blood Glucose	45
Blood Uric Acid	1
Clotting Time	1
Complete Blood Count	514
Feces - Bacteriological	11
Feces - Parasitological	21
Kahn, Standard	226
Kahn, Titer	4
Red Blood Count and Hemaglobin	6
Rh Factor	65
Sedimentation Rate	19
Sperm Count	2
Typing - Blood	65
Urinalysis	668
Urinalysis - Fishberg	1
White Blood Count and Differential	17
Miscellaneous	6
Vital Capacity	27
Total	1712

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	4261
Return to modified or part-time work	354
Remain off work	199
Granted leave	0
Died in plant	0
New employee, rejected	1
New employee, accepted conditionally	3
New employee, accepted	71
Sent to hospital or physician's office	87
Ward patient	2
AGGREGATE	4978

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	1
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	0
Nurse	1856
Nurse and Doctor	279
Doctor	870
Doctor and First Aid Attendant	0
Technician	1895
Psychologist	77
AGGREGATE	4978

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	27	0
1 day	109	109
2 days	36	72
3 days	16	48
4 days	14	56
5 days	18	90
6 days	7	42
7 days	5	35
8 days	1	8
9 days	6	54
10 days	9	90
11 days	2	22
12 days	2	24
13 days	2	26
15 days	4	60
17 days	2	34
18 days	1	18
20 days	3	60
24 days	1	24
26 days	2	52
65 days	1	65
	<u>268</u>	<u>989</u>

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	37	
Blood abnormality	6	
Cardio-vascular disease	22	
Dental disorder	21	
Dermatitis	61	
Endocrine disorder	75	
Eye and ear disorder	107	
Gastro-intestinal disease	132	
Genito-urinary disease	28	
Hernia	7	
Infections and parasitic disease	101	
Menstrual disease	36	
Nervous and mental state, neurologic disorder	100	
New growth	33	
Orthopedic disorder	103	
Pain and headache	91	
Respiratory disease	714	
Tuberculosis	0	
Miscellaneous	86	
Aggregate		1760
Injuries		
Injuries	675	
Injuries, potential	0	
Aggregate		675
Operative procedure		22
Total		2457
Special services not involving diagnosis		2521
GRAND TOTAL		4978

ABSENCE AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	3	11
Blood abnormality	0	0
Cardio-vascular disease	3	27
Dental disorder	3	3
Dermatitis	2	13
Endocrine disorder	1	13
Eye and ear disorder	1	13
Gastro-intestinal disease	29	89
Genito-urinary disease	5	26
Hernia	0	0
Infections and parasitic disease	2	5
Menstrual disease	21	31
Nervous and mental state, neurologic disorder	6	44
New growth	1	12
Orthopedic disorder	6	6
Pain and headache	6	7
Respiratory disease	160	509
Tuberculosis	0	0
Miscellaneous	1	2
Injuries:		
Injuries, non-occupational	7	6
Injuries, occupational	1	0
Operative procedures	10	172
Total	268	989

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	3216	2143	1.5
<u>SEX</u>			
Female	560	396	1.4
Male	2656	1747	1.5
<u>OCCUPATION</u>			
Life scientist	26	50	0.5
Physical scientist	474	344	1.4
Engineer	217	196	1.1
Technical assistant	261	195	1.3
Administrative and managerial personnel	195	148	1.3
Clerical personnel	390	331	1.2
Laborer	184	94	2.0
Maintenance personnel	152	99	1.5
Protective personnel	288	154	1.9
Craftsman	842	412	2.0
Chemical operator	128	58	2.2
Equipment operator	59	62	1.0
<u>RACE</u>			
Colored	202	132	1.5
White	3014	2011	1.5
<u>MARITAL STATUS</u>			
Married	2634	1709	1.5
Single	477	383	1.2
Divorced	46	26	1.8
Widowed	59	25	2.4
<u>HEALTH STATUS*</u>			
H-1	717	536	1.3
H-2	2069	1371	1.5
H-3	430	236	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.

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	<u>No. of</u> <u>Visits</u>	<u>No. of</u> <u>Employees</u>	<u>Average</u>
<b><u>DIVISION</u></b>			
Operations	96	79	1.2
Physics	87	70	1.2
Chemistry	281	210	1.3
Reactor Technology	177	119	1.5
<b>Biology</b>	73	106	0.7
Metallurgy	90	53	1.7
Training Program	12	9	1.3
Graduate Training Program	0	0	
Health Physics	189	113	1.7
Engineering and Maintenance	1303	752	1.7
Industrial Relations	360	178	2.0
Health	31	22	1.4
General Offices	134	136	1.0
Security	215	151	1.4
<b>Directors</b>	87	56	1.6
Wage Standards	2	3	0.7
Mathematics Panel	13	15	0.9
Chemical Technology	66	71	0.9
<b><u>AGE GROUP</u></b>			
18 to 19 years	1	2	0.5
20 to 29 years	1089	744	1.5
30 to 39 years	1227	832	1.5
40 to 49 years	617	398	1.6
50 to 59 years	243	147	1.7
60 to 65 years	39	20	2.0
<b><u>SHIFT</u></b>			
Straight days	2633	1341	1.4
Rotating shifts	544	273	2.0
Straight shift	39	29	1.3
<b><u>PAYROLL</u></b>			
Hourly	1616	865	1.9
Weekly	751	552	1.4
Monthly	849	726	1.2

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>TOTAL</u>	989	49289	2.0
<u>SEX</u>			
Female	274	9108	3.0
Male	715	40181	1.8
<u>OCCUPATION</u>			
Life scientist	10	1150	0.9
Physical scientist	98	7912	1.2
Engineer	53	4508	1.2
Technical assistant	107	4485	2.4
Administrative and managerial personnel	55	3404	1.6
Clerical personnel	214	7613	2.8
Laborer	66	2162	3.1
Maintenance personnel	51	2277	2.2
Protective personnel	45	3542	1.3
Craftsman	193	9476	2.0
Chemical operator	25	1334	1.9
Equipment operator	72	1426	5.0
<u>RACE</u>			
Colored	51	3036	1.7
White	938	46253	2.0
<u>MARITAL STATUS</u>			
Married	819	39307	2.1
Single	135	8809	1.5
Divorced	23	598	3.8
Widowed	12	575	2.1
<u>HEALTH STATUS*</u>			
H-1	224	12328	1.8
H-2	580	31533	1.8
H-3	185	5428	3.4

\*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.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	18	1817	1.0
Physics	49	1610	3.0
Chemistry	98	4830	2.0
Reactor Technology	62	2737	2.3
Biology	11	2438	0.5
Metallurgy	13	1219	1.1
Training Program	0	207	0.0
Graduate Training Program	0	0	
Health Physics	40	2599	1.5
Engineering and Maintenance	386	17296	2.2
Industrial Relations	128	4094	3.1
Health	13	506	2.6
General Offices	75	3128	2.4
Security	60	3473	1.7
Directors	14	1288	1.1
Wage Standards	1	69	1.4
Mathematics Panel	4	345	1.2
Chemical Technology	17	1633	1.0
<u>AGE GROUP</u>			
18 to 19 years	0	46	0.0
20 to 29 years	360	17112	2.1
30 to 39 years	267	19136	1.4
40 to 49 years	139	9154	2.1
50 to 59 years	140	3381	4.1
60 to 65 years	33	460	7.2
<u>SHIFT</u>			
Straight days	836	42343	2.0
Rotating shifts	78	6279	1.2
Straight shift	75	667	11.2
<u>PAYROLL</u>			
Hourly	449	19895	2.3
Weekly	361	12696	2.8
Monthly	179	16698	1.1

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	232	2143	10.8
<u>SEX</u>			
Female	91	396	23.0
Male	141	1747	8.1
<u>OCCUPATION</u>			
Life scientist	2	50	4.0
Physical scientist	35	344	10.2
Engineer	19	196	9.7
Technical assistant	31	195	15.9
Administrative and managerial personnel	10	148	6.8
Clerical personnel	66	331	19.9
Laborer	10	94	10.6
Maintenance personnel	12	99	12.1
Protective personnel	11	154	7.1
Craftsman	29	412	7.0
Chemical operator	3	58	5.2
Equipment operator	4	62	6.5
<u>RACE</u>			
Colored	11	132	8.3
White	221	2011	11.0
<u>MARITAL STATUS</u>			
Married	175	1709	10.2
Single	47	383	12.3
Divorced	7	26	26.9
Widowed	3	25	12.0
<u>HEALTH STATUS*</u>			
H-1	51	536	9.5
H-2	148	1371	10.8
H-3	33	236	14.0

\*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.

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Employees</u>
<u>DIVISION</u>			
Operations	5	79	6.3
Physics	12	70	17.1
Chemistry	31	210	14.8
Reactor Technology	9	119	7.6
Biology	6	106	5.7
Metallurgy	5	53	9.4
Training Program	0	9	0.0
Graduate Training Program	0	0	
Health Physics	22	113	19.5
Engineering and Maintenance	70	752	9.3
Industrial Relations	21	178	11.8
Health	3	22	13.6
General Office	15	136	11.0
Security	19	151	12.6
Director	6	56	10.7
Wage Standards	1	3	33.3
Mathematics Panel	2	15	13.3
Chemical Technology	5	71	7.0
<u>AGE GROUP</u>			
18 to 19 years	0	2	0.0
20 to 29 years	105	744	14.1
30 to 39 years	72	832	8.7
40 to 49 years	34	398	8.5
50 to 59 years	18	147	12.2
60 to 65 years	3	20	15.0
<u>SHIFT</u>			
Straight days	206	1841	11.2
Rotating shifts	23	273	8.4
Straight shift	3	29	10.3
<u>PAYROLL</u>			
Hourly	63	865	7.3
Weekly	114	552	20.7
Monthly	55	726	7.6

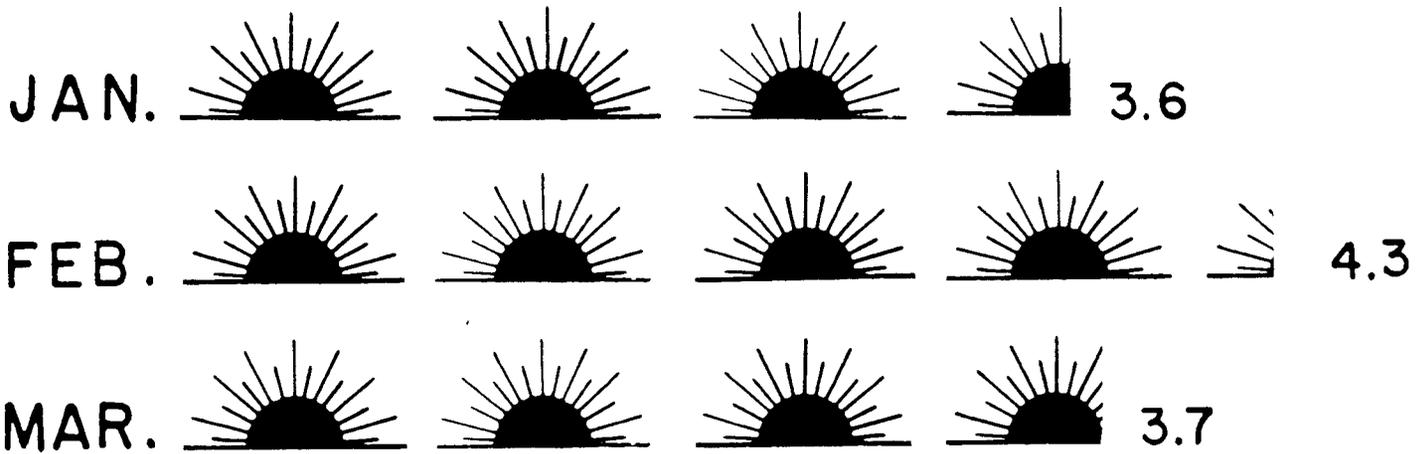
LPNL-720  
March 31, 1957

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Unclassified

# SEVERITY RATE

## Days Lost Per Absence

EACH SYMBOL REPRESENTS 1 DAY

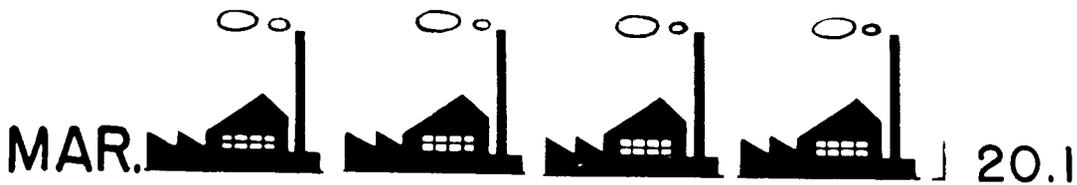
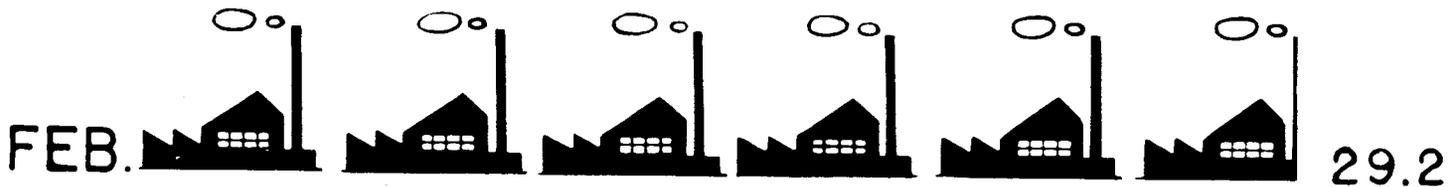
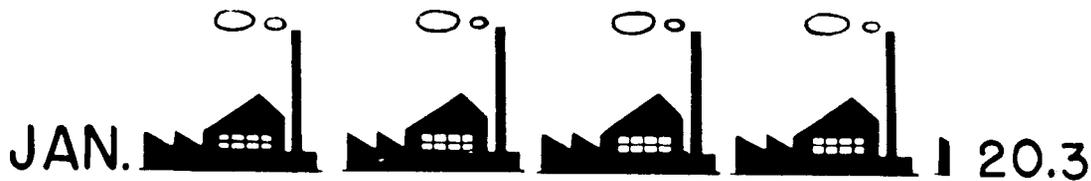


ORNL-WD1  
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Dwg. 8993  
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# DISABILITY RATE

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



# FREQUENCY RATE

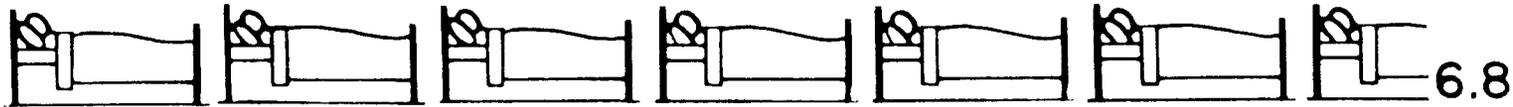
## Illness Absences Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 1 DAY

JAN.



FEB.



MAR.



# PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10 %

