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HEALTH DIVISION  
REPORT FOR THE MONTH ENDING  
FEBRUARY 28, 1950

OAK RIDGE NATIONAL LABORATORY

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OAK RIDGE NATIONAL LABORATORY  
OPERATED BY  
CARBIDE AND CARBON CHEMICALS DIVISION  
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HEALTH DIVISION  
REPORT FOR THE MONTH ENDING FEBRUARY 28, 1950  
J. S. Felton, M. D.

DATE ISSUED SEP 6 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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February 28, 1950

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- 67-68. AEC, Washington
69. T. L. Shipman, M. D., Medical Director, Los Alamos
- 70-72. Los Alamos

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DISTRIBUTION OF EFFORT FOR THE MONTH OF FEBRUARY, 1950

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicians	2	0	0
Industrial Hygiene Engineer	1	0	0
Industrial Designer	1	0	0
Nurses	1	5	0
Medical Technicians	0	4	0
Office Personnel	0	7	0
Custodial Personnel	0	0	2
	<u>5</u>	<u>16</u>	<u>2</u>

Number of technical personnel added: 0  
Number of technical personnel terminated: 2

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
X-rays	0	1	0
<u>Office Personnel</u>	0	7	0
<u>Custodial Personnel</u>	0	0	2
	<u>5</u>	<u>16</u>	<u>2</u>

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STATISTICAL SUMMARY

Severity Rate ..... 4.3 days lost per absence  
 Disability Rate ..... 29.2 days lost per 1000 days scheduled  
 Frequency Rate ..... 6.8 absences per 1000 days scheduled

Number of Patients

Employee ..... 1096  
 Non-employee ..... 189  
 Total ..... 1285

Number of Visits

Employee ..... 2598  
 Non-employee  
   J. A. Jones Const. Co.... 105  
   A.E.C..... 51  
   Austin Co..... 26  
   Other..... 58  
   Total ..... 240  
 Total all visits ..... 2838

Number of Procedures ..... 4190

Number of Employees at the Laboratory ..... 2101  
 Percent of Employees Visiting Dispensary ..... 52.1  
 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 : 1.8  
 Ratio of Non-occupational to Occupational Injuries, all visits ..... 1 : 1.3  
 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 ..... 1 : 143  
 Ratio of Occupational to Non-occupational Days Lost ..... †

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

† Ratio is not given since there were no occupational days lost for the month of February.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF FEBRUARY 1950

	<u>No. of Procedures</u>
Non-occupational injury	64
"          "          "          , revisit	89
Non-occupational illness	827
"          "          "          , revisit	400
Occupational injury or exposure, chemical	5
"          "          "          "          , revisit	20
Occupational injury or exposure, chemical, a.o.q.*	0
"          "          "          "          , revisit	0
Occupational injury or exposure, n.o.c.**	113
"          "          "          "          , revisit	321
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	286
Absence due to illness or injury, occupational	2
Physical examination, industrial hygiene	34
Physical examination, pre-placement	69
Physical examination, rehire	7
Physical examination, periodic health	147
Physical examination, job transfer	1
Physical examination, termination	30
Physical examination, food handler	8
Physical examination, other	5
<b>Audiogram</b>	221
Blood donation	8
Clinical laboratory procedure †	407
Electrocardiogram	140
Field clinical laboratory procedure	0

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

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		<u>No. of Procedures</u>
Occupational vision section procedures:		
Spectacles issued, plano	71	
Spectacles ordered, prescription	17	
Spectacles issued, prescription	7	
Orthorater examination	203	
Orthorater examination, field	0	
Partial replacement	7	
Adjustment or repair	11	
Advisory service	3	
Total		319
X-ray examination:		
X-ray examination, non-occupational condition	74	
X-ray examination, occupational condition	289	
Total		363
Special study interview		0
Psychodiagnostic test		3
Consultation, non-occupational condition		126
Consultation, occupational condition		5
Consultation, without patient, non-occupational		19
Consultation, without patient, occupational		4
Home visit		0
Pre-marital serodiagnostic test		1
Immunization		138
Diagnostic procedure for an outside physician		7
GRAND TOTAL		4190

\* 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	4
Blood Cholesterol	1
Blood Glucose	17
Complete Blood Count	308
Feces - Parasitological	3
Hematocrit	1
Kahn	230
Phenolsulfonphthalein	1
Red Blood Count and Hemaglobin	14
Rh Factor	67
Sedimentation Rate	30
Stippled Cell Count	1
Typing - Blood	67
Urinalysis	395
Vital Capacity	17
White Blood Count and Differential	61
Total	1221

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3514
Return to modified or part-time work	361
Remain off work	171
Granted leave	0
Died in plant	0
New employee, rejected	0
New employee, accepted conditionally	1
New employee, accepted	75
Sent to hospital or physician's office	68
AGGREGATE	4190

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	1
First Aid Attendant and Nurse	0
First Aid Attendant, Nurse and Doctor	1
Nurse	1854
Nurse and Doctor	220
Doctor	702
Doctor and First Aid Attendant	0
Technician	1343
Psychologist	69
AGGREGATE	4190

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	21	0
1 day	103	103
2 days	51	102
3 days	11	33
4 days	16	64
5 days	28	140
6 days	3	18
7 days	7	49
8 days	10	80
9 days	3	27
10 days	8	80
11 days	3	33
12 days	2	24
13 days	2	26
14 days	1	14
15 days	4	60
16 days	2	32
17 days	4	68
20 days	1	20
23 days	1	23
24 days	2	48
25 days	1	25
30 days	1	30
34 days	1	34
48 days	1	48
56 days	<u>1</u>	<u>56</u>
AGGREGATE	288	1237

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>
Illnesses:	
Allergy	26
Blood abnormality	4
Cardio-vascular disease	17
Dental disorder	19
Dermatitis	57
Endocrine disorder	73
Eye and ear disorder	76
Gastro-intestinal disease	122
Genito-urinary disease	20
Hernia	7
Infections and parasitic disease	109
Menstrual disease	21
Nervous and mental state, neurologic disorder	106
New growth	31
Orthopedic disorder	84
Pain and headache	86
Respiratory disease	782
Tuberculosis	1
Miscellaneous	99
Aggregate	1740
Injuries:	
Injuries	617
Injuries, potential	0
Aggregate	617
Operative procedure	37
Total	2394
Special services not involving diagnosis	1796
GRAND TOTAL	4190

ABSENCE AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	5	42
Blood abnormality	1	13
Cardio-vascular disease	0	0
Dental disorder	1	2
Dermatitis	2	8
Endocrine disorder	2	14
Eye and ear disorder	5	53
Gastro-intestinal disease	35	76
Genito-urinary disease	2	35
Hernia	0	0
Infections and parasitic disease	8	65
Menstrual disease	13	22
Nervous and mental state, neurologic disorder	7	90
New growth	1	2
Orthopedic disorder	6	8
Pain and headache	12	26
Respiratory disease	161	603
Tuberculosis	0	0
Miscellaneous	6	8
Injuries:		
Injuries, non-occupational	6	28
Injuries, occupational	2	0
Operative procedures	13	142
Total	288	1237

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2598	2101	1.2
<u>SEX</u>			
Female	501	393	1.3
Male	2097	1708	1.2
<u>OCCUPATION</u>			
Life scientist	27	49	0.6
Physical scientist	410	339	1.2
Engineer	202	191	1.1
Technical assistant	259	192	1.3
Administrative and managerial personnel	158	147	1.1
Clerical personnel	350	328	1.1
Laborer	170	90	1.9
Maintenance personnel	91	99	0.9
Protective personnel	194	154	1.3
Craftsman	559	390	1.4
Chemical operator	123	60	2.1
Equipment operator	55	62	0.9
<u>RACE</u>			
Colored	148	129	1.1
White	2450	1972	1.2
<u>MARITAL STATUS</u>			
Married	2047	1667	1.2
Single	479	385	1.2
Divorced	34	24	1.4
Widowed	38	25	1.5
<u>HEALTH STATUS*</u>			
H-1	620	533	1.2
H-2	1613	1331	1.2
H-3	365	237	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.

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	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	117	79	1.5
Physics	74	70	1.1
Chemistry	255	211	1.2
Technical	235	188	1.3
Biology	54	106	0.5
Metallurgy	50	52	1.0
Training Program	19	7	2.7
Graduate Training Program	0	0	
Health Physics	176	112	1.6
Engineering and Maintenance	983	720	1.4
Industrial Relations	205	178	1.2
Health	21	23	0.9
General Offices	153	134	1.1
Security	160	151	1.1
Directors	79	55	1.4
Wage Standards	1	3	0.3
Mathematics Panel	16	12	1.3
<u>AGE GROUP</u>			
18 to 19 years	5	4	1.3
20 to 29 years	984	738	1.3
30 to 39 years	938	808	1.2
40 to 49 years	487	387	1.3
50 to 59 years	170	146	1.2
60 to 65 years	14	18	0.8
<u>SHIFT</u>			
Straight days	2114	1799	1.2
Rotating shifts	441	273	1.6
Straight shift	43	29	1.5
<u>PAYROLL</u>			
Hourly	1182	839	1.4
Weekly	675	546	1.2
Monthly	741	716	1.0

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Scheduled Lost</u>	<u>Days</u>	<u>Percent Time Lost</u>
<b>TOTAL</b>	1229**	42020	2.9
<b><u>SEX</u></b>			
Female	295	7860	3.8
Male	934	34160	2.7
<b><u>OCCUPATION</u></b>			
Life scientist	1	980	0.1
Physical scientist	123	6780	1.8
Engineer	95	3820	2.5
Technical assistant	88	3840	2.3
Administrative and managerial personnel	76	2940	2.6
Clerical personnel	248	6560	3.8
Laborer	57	1800	3.2
Maintenance personnel	51	1980	2.6
Protective personnel	40	3080	1.3
Craftsman	272	7800	3.5
Chemical operator	48	1200	4.0
Equipment operator	130	1240	10.5
<b><u>RACE</u></b>			
Colored	66	2580	2.6
White	1163	39440	2.9
<b><u>MARITAL STATUS</u></b>			
Married	908	33340	2.7
Single	268	7700	3.5
Divorced	19	480	4.0
Widowed	34	500	6.8
<b><u>HEALTH STATUS*</u></b>			
H-1	254	10660	2.4
H-2	811	26620	3.0
H-3	164	4760	3.5

\*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.

\*\*Eight days could not be classified due to insufficient personal data.

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<b><u>DIVISION</u></b>			
Operations	28	1580	1.8
Physics	26	1400	1.9
Chemistry	142	4220	3.4
Technical	97	3760	2.6
Biology	28	2120	1.3
Metallurgy	13	1040	1.3
Training Program	0	140	0.0
Graduate Training Program	0	0	
Health Physics	52	2240	2.3
Engineering and Maintenance	580	14400	4.0
Industrial Relations	72	3560	2.0
Health	7	460	1.5
General Office	99	2680	3.7
Security	33	3020	1.1
Directors	47	1100	4.3
Wage Standards	0	60	0.0
Mathematics Panel	5	240	2.1
<b><u>AGE GROUP</u></b>			
18 to 19 years	4	80	5.0
20 to 29 years	429	14760	2.9
30 to 39 years	397	16160	2.5
40 to 49 years	320	7740	4.1
50 to 59 years	67	2920	2.3
60 to 65 years	12	360	3.3
<b><u>SHIFT</u></b>			
Straight days	1093	35980	3.0
Rotating shifts	136	5460	2.5
Straight shift	0	580	0.0
<b><u>PAYROLL</u></b>			
Hourly	584	16780	3.5
Weekly	391	10920	3.6
Monthly	254	14320	1.8

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>
<b>TOTAL</b>	266	2101	12.7
<b><u>SEX</u></b>			
Female	95	393	24.2
Male	171	1708	10.0
<b><u>OCCUPATION</u></b>			
Life scientist	1	49	2.0
Physical scientist	33	339	9.7
Engineer	25	191	13.1
Technical assistant	36	192	18.8
Administrative and managerial personnel	12	147	8.2
Clerical personnel	69	328	21.0.
Laborer	13	90	14.4
Maintenance personnel	9	99	9.1
Protective personnel	9	154	5.8
Craftsman	43	390	11.0
Chemical operator	5	60	8.3
Equipment operator	11	62	17.7
<b><u>RACE</u></b>			
Colored	13	129	10.1
White	253	1972	12.8
<b><u>MARITAL STATUS</u></b>			
Married	186	1667	11.2
Single	72	385	18.7
Divorced	4	24	16.7
Widowed	4	25	16.0
<b><u>HEALTH STATUS*</u></b>			
H-1	65	533	12.2
H-2	164	1331	12.3
H-3	37	237	15.6

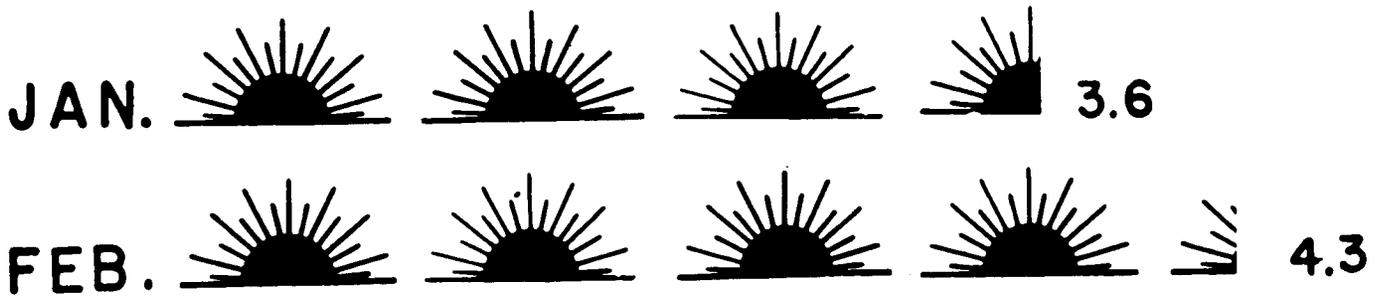
\*H-1 Physically qualified for any position.

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	8	79	10.1
Physics	7	70	10.0
Chemistry	37	211	17.5
Technical	22	188	11.7
Biology	6	106	5.7
Metallurgy	4	52	7.7
Training Program	0	7	0.0
Graduate Training Program	0	0	
Health Physics	22	112	19.6
Engineering and Maintenance	95	720	13.2
Industrial Relations	19	178	10.7
Health	2	23	8.7
General Office	24	134	17.9
Security	9	151	6.0
Director	9	55	16.4
Wage Standards	0	3	0.0
Mathematics Panel	2	12	16.7
<u>AGE GROUP</u>			
18 to 19 years	1	4	25.0
20 to 29 years	118	738	16.0
30 to 39 years	87	808	10.8
40 to 49 years	46	387	11.9
50 to 59 years	12	146	8.2
60 to 65 years	2	18	11.1
<u>SHIFT</u>			
Straight days	236	1799	13.1
Rotating shifts	30	273	11.0
Straight shift	0	29	0.0
<u>PAYROLL</u>			
Hourly	91	839	10.8
Weekly	115	546	21.1
Monthly	60	716	8.4

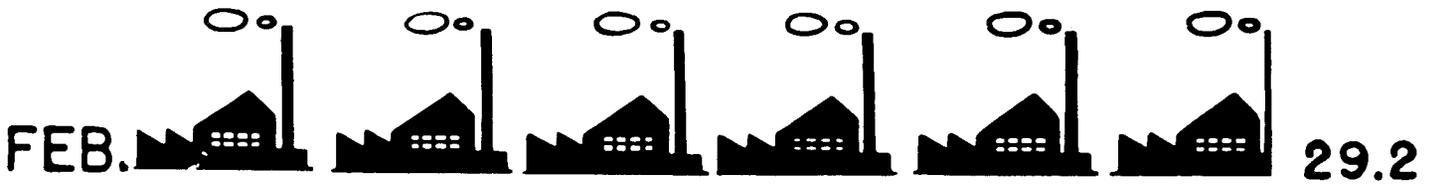
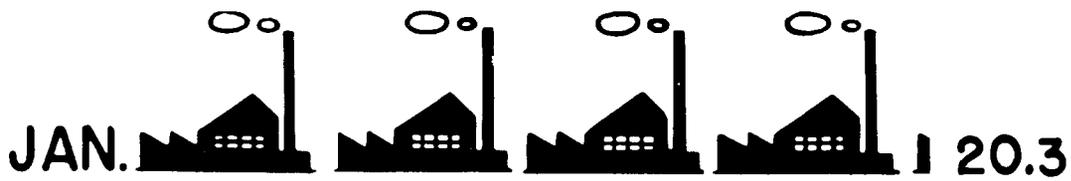
**SEVERITY RATE**  
**Days Lost Per Absence**  
EACH SYMBOL REPRESENTS 1 DAY



# DISABILITY RATE

## Days Lost Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 5%



Dwg. 8990  
Unclassified

# FREQUENCY RATE

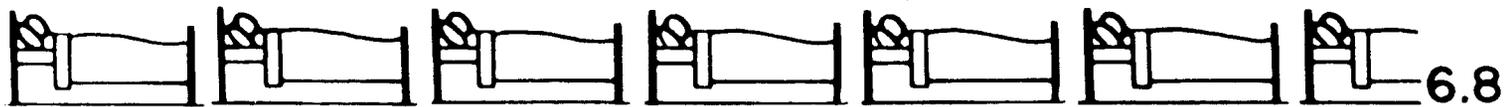
## Illness Absences Per 1,000 Days Scheduled

EACH SYMBOL REPRESENTS 1 DAY

JAN.



FEB.



# PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10 %

