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ORNL 838, Series A

Progress Report 3a

HEALTH DIVISION
REPORT FOR MONTH ENDING
JULY 31, 1950.

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CARBIDE AND CARBON CHEMICALS DIVISION
UNION CARBIDE AND CARBON CORPORATION



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING JULY 31, 1950

J. S. Felton, M. D.

Date Issued

FEB 5 1951

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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UNCLASSIFIEDDISTRIBUTION OF EFFORT FOR THE MONTH OF JULY 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
X-ray Technicians	0	1	0
Office Personnel	0	7	0
Custodial Personnel	0	0	3
Number of technical personnel added: 0	<u>5</u>	<u>16</u>	<u>3</u>
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 Technician</u>			
General Laboratory	0	1	0
Blood Studies	0	1 1/2	0
Urinalysis	0	1/2	0
<u>X-ray Technicians</u>	0	1	0
<u>Office Personnel</u>	0	7	0
<u>Custodial Personnel</u>	<u>0</u>	<u>0</u>	<u>3</u>
	<u>5</u>	<u>16</u>	<u>3</u>

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STATISTICAL SUMMARY

Severity Rate	4.9 days lost per absence
Disability Rate	18.1 days lost per 1000 days scheduled
Frequency Rate	3.7 absences per 1000 days scheduled

Number of Patients

Employee	1105
Non-Employee	150
Total	1255

Number of Visits

Employee	2525
Non-employee	
J. A. Jones Const. Co....	30
A. E. C.....	3
Austin Company	18
Other	164
Total	218
Total all visits.....	2743

Number of Procedures	3839
Number of Employees at the Laboratory	2319
Percent of Employees Visiting Dispensary	47.6
Number of Visits per Employee	1.1
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 Visit	1 : 1.6
Ratio of Non-occupational to Occupational Injuries, All Visits	1 : 2.5
Ratio of Occupational to Non-occupational Illnesses, First Visit	1 : 607
Ratio of Occupational to Non-occupational Illnesses, All Visits	1 : 472.5
Ratio of Occupational to Non-occupational Absences	1 : 41.7
Ratio of Occupational to Non-occupational Days Lost	*

*Ratio is not given since the occupational time lost was less than 1 day.

PROCEDURES ACCOMPLISHED FOR THE MONTH OF JULY 1950

	<u>No. of Procedures</u>
Non-occupational injury	102
" " , revisit	127
Non-occupational illness	607
" " , revisit	338
Occupational injury or exposure, chemical	6
" " " , revisit	8
Occupational injury or exposure, chemical, a.o.q.*	0
" " " , " , revisit	0
Occupational injury or exposure, n.o.c.**	150
" " " , " , revisit	396
Occupational injury or exposure, n.o.c.**, a.o.q.*	3
" " " , " , " , revisit	2
Occupational injury or exposure, radiation	0
" " " , " , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	0
" " " , " , " , revisit	0
Occupational illness, n.o.c.**	1
" " , " , revisit	1
Absence due to illness or injury, non-occupational	167
" " " " " , occupational	4
Physical examination, industrial hygiene	37
Physical examination, pre-placement	60
Physical examination, rehire	4
Physical examination, periodic health	4
Physical examination, job transfer	7
Physical examination, food handler	0
Physical examination, other	1
Physical examination, termination	46
Audiogram	112
Blood donation	0
Clinical laboratory procedure†	422
Electrocardiogram	101
Field clinical laboratory procedure	0

* a.o.q. - alleged or questionable

** n.o.c. - not otherwise classified

† see next page

Occupational vision section procedures:		
Spectacles issued, plano	26	
Spectacles ordered, prescription	27	
Spectacles issued, prescription	24	
Orthorater examination	82	
Orthorater examination, field	0	
Partial replacement	6	
Adjustment or repair	23	
Advisory service	5	
Total		193
X-ray examination:		
X-ray examination, non-occupational condition	27	
X-ray examination, occupational condition	281	
Total		308
Special study interview		0
Psychodiagnostic test		1
Consultation, non-occupational condition		157
Consultation, occupational condition		7
Consultation, without patient, non-occupational		13
Consultation, without patient, occupational		0
Home visit		1
Pre-marital serodiagnostic test		0
Immunization		419
Diagnostic procedure for an outside physician		34
GRAND TOTAL		3839

*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:

Agglutination	3
Bacteriological Smear	1
Basal Metabolism	4
Bleeding Time	3
Blood Cholesterol	2
Blood Glucose	122
Blood Uric Acid	2
Complete Blood Count	245
Feces - Bacteriological	2
Feces - Parasitological	8
Gastric Washing	1
Hematocrit	4
Kahn - Presumptive	130
Kahn - Standard	9
Kahn - Titer	9
Malarial Parasites	1
Platelet Count	1
Rheosulfonphthalein	1
Red Blood Count and Hemaglobin	7
Rh Factor	63
Sedimentation Rate	49
Typing - Blood	63
Urinalysis	355
Vital Capacity	24
White Blood Count & Differential	57
Miscellaneous	4
Total	1170

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	2971
Return to modified or part-time work	431
Remain off work	239
Granted leave	0
Died in plant	0
Rejected	0
Accepted conditionally	8
Accepted	60
Sent to hospital or physicians office	130
AGGREGATE	3839

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	0
First Aid Attendant and Nurse	1
First Aid Attendant, Nurse and Doctor	0
Nurse	1844
Nurse and Doctor	207
Doctor	602
Doctor and First Aid Attendant	8
Technician	1133
Psychologist	44
Aggregate	3839

TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	17	0
1 day	73	73
2 days	23	46
3 days	7	21
4 days	13	52
5 days	3	40
6 days	2	12
7 days	4	28
8 days	3	24
9 days	2	18
10 days	1	10
11 days	1	11
12 days	1	12
13 days	1	13
14 days	4	56
16 days	1	16
17 days	1	17
20 days	2	40
25 days	1	25
26 days	1	26
34 days	1	34
46 days	1	46
58 days	1	58
62 days	1	62
99 days	1	99
	<u>171</u>	<u>839</u>

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	47	
Blood abnormality	1	
Cardio-vascular disease	14	
Dental disorder	13	
Dermatitis	82	
Endocrine disorder	46	
Eye and ear disorder	34	
Gastro-intestinal disease	134	
Genito-urinary disease	18	
Hernia	2	
Infections and parasitic disease	136	
Menstrual disease	32	
Nervous and mental state, neurologic disorder	90	
New growth	24	
Orthopedic disorder	143	
Pain and headache	83	
Respiratory disease	259	
Tuberculosis	2	
Miscellaneous	77	
Aggregate		1237
Injuries		
Injuries	797	
Injuries, potential	1	
Aggregate		798
Operative procedure		31
Total		2066
Special services not involving diagnosis		1773
GRAND TOTAL		3839

ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	3	8
Blood abnormality	0	0
Cardio-vascular disease	3	69
Dental disorder	0	0
Dermatitis	3	19
Endocrine disorder	0	0
Eye and ear disorder	1	6
Genito-intestinal disease	44	79
Genito-urinary disease	7	22
Hernia	0	0
Infections and parasitic disease	4	23
Menstrual disease	17	18
Nervous and mental state, neurologic disorder	10	49
New growth	0	0
Orthopedic disorder	6	7
Pain and headache	8	9
Respiratory disease	44	200
Tuberculosis	0	0
Miscellaneous	5	114
Injuries:		
Injuries, non-occupational	10	99
Injuries, occupational	0	0
Operative procedures	6	117
Total	171	839

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2625	2319	1.1
<u>SEX</u>			
Female	451	404	1.1
Male	2174	1915	1.1
<u>OCCUPATION</u>			
Life scientist	28	53	0.5
Physical scientist	432	364	1.2
Engineer	175	214	0.8
Technical assistant	251	211	1.2
Administrative and managerial personnel	132	149	0.9
Clerical personnel	287	344	0.8
Laborer	202	124	1.6
Maintenance personnel	139	103	1.3
Protective personnel	154	153	1.0
Craftsman	667	475	1.4
Chemical operator	81	58	1.4
Equipment operator	77	71	1.1
<u>RACE</u>			
Colored	249	153	1.6
White	2376	2166	1.1
<u>MARITAL STATUS</u>			
Married	2074	1865	1.1
Single	484	403	1.2
Divorced	38	26	1.5
Widowed	29	25	1.2
<u>HEALTH STATUS*</u>			
H-1	529	542	1.0
H-2	1776	1542	1.1
H-3	320	235	1.4

*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.

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	72	31	0.9
Physics	71	77	0.9
Chemistry	283	212	1.3
Reactor Technology	130	121	1.1
Biology	86	108	0.8
Metallurgy	60	63	1.0
Training Program	44	14	3.1
Graduate Training Program	0	0	
Health Physics	152	114	1.3
Engineering and Maintenance	1115	871	1.3
Industrial Relations	217	185	1.2
Health	12	23	0.5
General Office	97	139	0.7
Security	159	149	1.1
Directors	56	56	1.0
Wage Standards	0	3	0.0
Mathematics Panel	11	16	0.7
Chemical Technology	60	87	0.7
<u>AGE GROUP</u>			
18 to 19 years	0	4	0.0
20 to 29 years	939	789	1.2
30 to 39 years	965	916	1.1
40 to 49 years	513	425	1.2
50 to 59 years	180	165	1.1
60 to 65 years	28	20	1.4
<u>SHIFT</u>			
Straight days	2219	2019	1.1
Rotating shifts	354	271	1.3
Straight shift	52	29	1.8
<u>PAYROLL</u>			
Hourly	1318	970	1.4
Weekly	637	580	1.1
Monthly	670	769	0.9

TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	836*	46380	1.8
<u>SEX</u>			
Female	197	8080	2.4
Male	639	38300	1.7
<u>OCCUPATION</u>			
Life scientist	0	1060	0.0
Physical scientist	195	7280	2.7
Engineer	28	4280	0.7
Technical assistant	88	4220	2.1
Administrative and managerial personnel	3	2980	0.1
Clerical personnel	125	6880	1.8
Laborer	29	2480	1.2
Maintenance personnel	16	2060	0.8
Protective personnel	89	3060	2.9
Craftsman	191	9500	2.0
Chemical operator	8	1160	0.7
Equipment operator	64	1420	4.5
<u>RACE</u>			
Colored	20	3060	0.7
White	816	43320	1.9
<u>MARITAL STATUS</u>			
Married	550	37300	1.5
Single	262	8060	3.3
Divorced	14	520	2.7
Widowed	10	500	2.0
<u>HEALTH STATUS**</u>			
H-1	339	10840	3.1
H-2	312	30840	1.0
H-3	185	4700	3.9

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

**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</u> <u>Lost</u>	<u>Scheduled</u> <u>Days</u>	<u>Percent</u> <u>Time Lost</u>
<u>DIVISION</u>			
Operations	10	1620	0.6
Physics	12	1540	0.8
Chemistry	179	4240	4.2
Reactor Technology	25	2420	1.0
Biology	4	2160	0.2
Metallurgy	4	1260	0.3
Training Program	4	280	1.4
Graduate Training Program	0	0	
Health Physics	64	2280	2.8
Engineering and Maintenance	297	17420	1.7
Industrial Relations	20	3700	0.5
Health	0	460	0.0
General Offices	31	2780	1.1
Security	135	2980	4.5
Directors	13	1120	1.2
Wage Standards	0	60	0.0
Mathematics Panel	22	320	6.9
Chemical Technology	16	1740	0.9
<u>AGE GROUP</u>			
18 to 19 years	0	80	0.0
20 to 29 years	312	15780	2.0
30 to 39 years	380	18320	2.1
40 to 49 years	57	8500	0.7
50 to 59 years	87	3300	2.6
60 to 65 years	0	400	0.0
<u>SHIFT</u>			
Straight days	717	40380	1.8
Rotating shifts	119	5420	2.2
Straight shift	0	580	0.0
<u>PAYROLL</u>			
Hourly	396	19400	2.0
Weekly	235	11600	2.0
Monthly	205	15380	1.3

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>
<u>TOTAL</u>	156	2319	6.7
<u>SEX</u>			
Female	71	404	17.6
Male	85	1915	4.4
<u>OCCUPATION</u>			
Life scientist	0	53	0.0
Physical scientist	30	364	8.2
Engineer	9	214	4.2
Technical assistant	26	211	12.3
Administrative and managerial personnel	2	149	1.3
Clerical personnel	46	344	13.4
Laborer	6	124	4.8
Maintenance personnel	6	103	5.8
Protective personnel	4	153	2.6
Craftsman	22	475	4.6
Chemical operator	1	58	1.7
Equipment operator	4	71	5.6
<u>RACE</u>			
Colored	10	153	6.5
White	146	2166	6.7
<u>MARITAL STATUS</u>			
Married	101	1865	5.4
Single	46	403	11.4
Divorced	4	26	15.4
Widowed	5	25	20.0
<u>HEALTH STATUS*</u>			
H-1	28	542	5.2
H-2	105	1542	6.8
H-3	23	235	9.4

*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.

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	3	81	3.7
Physics	4	77	5.2
Chemistry	32	212	15.1
Reactor Technology	7	121	5.8
Biology	4	108	3.7
Metallurgy	3	63	4.8
Training Program	2	14	14.3
Graduate Training Program	0	0	
Health Physics	15	114	13.2
Engineering and Maintenance	39	871	4.5
Industrial Relations	6	185	3.2
Health	0	23	0.0
General Office	10	139	7.2
Security	15	149	10.1
Director	10	56	17.9
Wage Standards	0	3	0.0
Mathematics Panel	1	16	6.3
Chemical Technology	5	87	5.7
<u>AGE GROUP</u>			
18 to 19 years	0	4	0.0
20 to 29 years	70	789	8.9
30 to 39 years	62	916	6.8
40 to 49 years	16	425	3.8
50 to 59 years	8	165	4.8
60 to 65 years	0	20	0.0
<u>SHIFT</u>			
Straight days	135	2019	6.7
Rotating shifts	21	271	7.7
Straight shift	0	29	0.0
<u>PAYROLL</u>			
Hourly	44	970	4.5
Weekly	85	580	14.7
Monthly	27	769	3.5

SEVERITY RATE
Days Lost Per Absence
EACH SYMBOL REPRESENTS 1 DAY

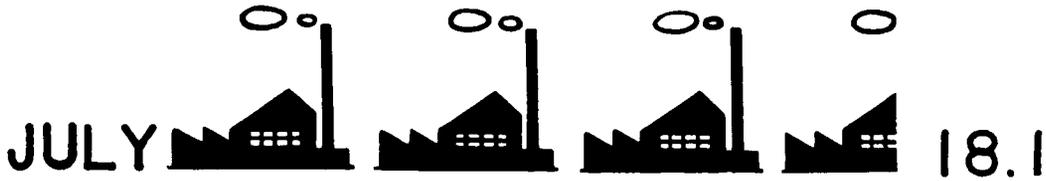


18.

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Dwg. 10052
Unclassified

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



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Dwg. 10053
Unclassified

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

JULY



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

