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Progress Report *3a*

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HEALTH DIVISION
REPORT FOR MONTH ENDING
SEPTEMBER 30, 1950



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CARBIDE AND CARBON CHEMICALS DIVISION
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING SEPTEMBER 30, 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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DISTRIBUTION OF EFFORT FOR THE MONTH OF SEPTEMBER 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	4	0
Medical Technicians	0	3	0
X-ray Technician	0	1	0
Office Personnel	0	7	0
Custodial Personnel	0	0	4
	<u>5</u>	<u>15</u>	<u>4</u>

Number of technical personnel added: 1

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	4	0
<u>Medical Technicians</u>			
General Laboratory	0	1	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	7	0
<u>Custodial Personnel</u>	0	0	4
	<u>5</u>	<u>15</u>	<u>4</u>

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STATISTICAL SUMMARY

Severity Rate	3.5 days lost per illness absence
Disability Rate	12.5 days lost per 1000 days scheduled
Frequency Rate	3.6 absences per 1000 days scheduled

Number of Patients

Employee	2062
Non-Employee	179
Total	2241

Number of Visits

Employee	4137
Non-Employee	
J. A. Jones Const. Co.	36
A. E. C.	3
Austin Company	4
Other	224
Total	267
Total all visits	4404

Number of Procedures	5689
Number of Employees at the Laboratory	2373
Percent of Employees Visiting Dispensary	51.6
Number of Visits per Employee	1.7
Number of Illness Absences per Employee	0.1

Ratio of Occupational to Non-occupational Procedures	1 : 0.3
Ratio of Non-occupational to Occupational Injuries, first visit	1 : 1.5
Ratio of Non-occupational to Occupational Injuries, all visits	1 : 3.0
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 : 60.0
Ratio of Occupational to Non-occupational Days Lost	1 : 590.0

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

PROCEDURES ACCOMPLISHED FOR THE MONTH OF SEPTEMBER 1950

	<u>No. of Procedures</u>
Non-occupational injury	91
" " " " , revisit	67
Non-occupational illness	714
" " " " , revisit	348
Occupational injury or exposure, chemical	7
" " " " , " , revisit	9
Occupational injury or exposure, chemical, a.o.q.*	0
" " " " , " , " , revisit	0
Occupational injury or exposure, n.o.c.**	127
" " " " , " , revisit	327
Occupational injury or exposure, n.o.c.**, a.o.q.*	0
" " " " , " , " , revisit	3
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	180
" " " " " " , occupational	3
Physical examination, industrial hygiene	0
Physical examination, pre-placement	103
Physical examination, rehire	9
Physical examination, periodic health	7
Physical examination, food handler	0
Physical examination, other	5
Physical examination, termination	73
Physical examination, job transfer	14
Audiogram	168
Blood donation	3
Clinical laboratory procedure †	379
Electrocardiogram	120
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	14	
Spectacles ordered, prescription	14	
Spectacles issued, prescription	22	
Orthorater examination	115	
Orthorater examination, field	0	
Partial replacement	7	
Adjustment or repair	17	
Advisory service	1	
Total		190
X-ray examination:		
X-ray examination, non-occupational condition	3	
X-ray examination, occupational condition	2095	
Total		2098
Special study interview		0
Psychodiagnostic test		4
Consultation, non-occupational condition		169
Consultation, occupational condition		6
Consultation, without patient, non-occupational		17
Consultation, without patient, occupational		5
Home visit		0
Pre-marital serodiagnostic test		1
Immunization		439
Diagnostic procedure for an outside physician		3
GRAND TOTAL		5689

*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	3
Basal Metabolism	7
Blood Cholesterol	2
Blood Creatinin	1
Blood Glucose	10
Blood N. P. N.	2
Blood Uric Acid	2
Complete Blood Count	280
Feces - Bacteriological	3
Feces - Parasitological	6
Kahn	124
Kahn - Titer	1
Red Blood Count and Hemoglobin	9
Rh Factor	106
Sedimentation Rate	27
Typing - Blood	106
Urinalysis	333
White Blood Count and Differential	25
Total	1047

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	4777
Return to modified or part-time work	305
Remain off work	425
Granted leave	0
Died in plant	0
Rejected	3
Accepted conditionally	0
Accepted	109
Sent to hospital or physicians office	70
AGGREGATE	5689

PERSONNEL ATTENDING PATIENTS

First Aid Attendant	2
First Aid Attendant and Nurse	2
First Aid Attendant, Nurse and Doctor	1
Nurse	1932
Nurse and Doctor	157
Doctor	610
Doctor and First Aid Attendant	0
Technician	2954
Psychologist	31
Aggregate	5689

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	75	75
2 days	29	58
3 days	7	21
4 days	8	32
5 days	15	75
6 days	6	36
7 days	5	35
8 days	3	24
9 days	4	36
10 days	1	10
12 days	1	12
13 days	1	13
15 days	2	30
18 days	1	18
19 days	1	19
24 days	1	24
29 days	1	29
44 days	1	44
	<u>183</u>	<u>591</u>

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	70	
Blood abnormality	6	
Cardio-vascular disease	20	
Dental disorder	15	
Dermatitis	85	
Endocrine disorder	44	
Eye and ear disorder	71	
Gastro-intestinal disease	136	
Genito-urinary disease	34	
Hernia	3	
Infections and parasitic disease	99	
Menstrual disease	23	
Nervous and mental state, neurologic disorder	54	
New growth	20	
Orthopedic disorder	256	
Pain and headache	77	
Respiratory disease	469	
Tuberculosis	0	
Miscellaneous	59	
Aggregate		1541
Injuries		
Injuries	513	
Injuries, potential	1	
Aggregate		514
Operative procedure		30
Total		2085
Special services not involving diagnosis		3604
GRAND TOTAL		5689

ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	7	21
Blood abnormality	1	0
Cardio-vascular disease	1	0
Dental disorder	0	0
Dermatitis	1	2
Endocrine disorder	0	0
Eye and ear disorder	3	8
Genito-intestinal disease	27	84
Genito-urinary disease	11	37
Hernia	0	0
Infections and parasitic disease	3	17
Menstrual disease	11	17
Nervous and mental state, neurologic disorder	7	15
New growth	2	20
Orthopedic disorder	9	92
Pain and headache	6	16
Respiratory disease	81	200
Tuberculosis	0	0
Miscellaneous	3	10
Injuries:		
Injuries, non-occupational	6	4
Injuries, occupational	0	0
Operative procedures	4	48
Total	183	591

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	4137	2373	1.7
<u>SEX</u>			
Female	444	400	1.1
Male	3693	1973	1.9
<u>OCCUPATION</u>			
Life scientist	65	50	1.3
Physical scientist	512	370	1.4
Engineer	373	228	1.6
Technical assistant	385	232	1.7
Administrative and managerial personnel	227	146	1.6
Clerical personnel	469	346	1.4
Laborer	272	131	2.1
Maintenance personnel	164	101	1.6
Protective personnel	272	151	1.8
Craftsman	1141	490	2.3
Chemical operator	143	57	2.5
Equipment operator	114	71	1.6
<u>RACE</u>			
Colored	289	156	1.9
White	3848	2217	1.7
<u>MARITAL STATUS</u>			
Married	3463	1925	1.8
Single	586	396	1.5
Divorced	52	26	1.4
Widowed	36	26	2.0
<u>HEALTH STATUS*</u>			
H-1	866	537	1.6
H-2	2829	1596	1.8
H-3	442	240	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 Visits</u>	<u>No. of Employees</u>	<u>Average</u>
<u>DIVISION</u>			
Operations	155	80	1.9
Physics	89	80	1.1
Chemistry	303	208	1.5
Reactor Technology	201	126	1.6
Biology	128	103	1.2
Metallurgy	108	65	1.7
Training Program	76	31	2.5
Graduate Training Program	0	0	
Health Physics	173	113	1.5
Engineering and Maintenance	1883	903	2.1
Industrial Relations	315	184	1.7
Health	22	22	1.0
General Office	205	138	1.5
Security	239	152	1.6
Directors	80	57	1.4
Wage Standards	2	3	0.7
Mathematics Panel	5	17	0.3
Chemical Technology	153	91	1.7
<u>AGE GROUP</u>			
18 to 19 years	1	2	0.5
20 to 29 years	1357	1178	1.2
30 to 39 years	1572	611	2.6
40 to 49 years	843	389	2.2
50 to 59 years	324	173	1.9
60 to 65 years	40	20	2.0
<u>SHIFT</u>			
Straight days	3483	2041	1.7
Rotating shifts	574	297	1.9
Straight shift	80	35	2.3
<u>PAYROLL</u>			
Hourly	2081	989	2.1
Weekly	876	584	1.5
Monthly	1180	800	1.5

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TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	Days Lost	Scheduled Days	Percent Time Lost
TOTAL	591	47460	1.2
<u>SEX</u>			
Female	222	8000	2.8
Male	369	39460	0.9
<u>OCCUPATION</u>			
Life scientist	14	1000	1.4
Physical scientist	76	7400	1.0
Engineer	26	4560	0.6
Technical assistant	52	4640	1.1
Administrative and managerial personnel	43	2920	1.5
Clerical personnel	135	6920	2.0
Laborer	23	2620	0.9
Maintenance personnel	60	2020	3.0
Protective personnel	6	3020	0.2
Craftsman	56	9800	0.6
Chemical operator	22	1140	1.9
Equipment operator	78	1420	5.5
<u>RACE</u>			
Colored	56	3120	1.8
White	535	44320	1.2
<u>MARITAL STATUS</u>			
Married	429	38500	1.1
Single	123	7920	1.6
Divorced	27	520	2.3
Widowed	12	520	5.2
<u>HEALTH STATUS*</u>			
H-1	108	10740	1.0
H-2	450	31920	1.4
H-3	33	4800	0.7

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	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
<u>DIVISION</u>			
Operations	17	1600	1.1
Physics	7	1600	0.4
Chemistry	82	4160	2.0
Reactor Technology	30	2520	1.2
Biology	37	2060	1.8
Metallurgy	13	1300	1.0
Training Program	1	620	0.2
Graduate Training Program	0	0	
Health Physics	35	2260	1.5
Engineering and Maintenance	209	18060	1.2
Industrial Relations	65	3680	1.8
Health	6	440	1.4
General Offices	24	2760	0.9
Security	40	3040	1.3
Directors	3	1140	0.7
Wage Standards	0	60	0.0
Mathematics Panel	2	340	0.6
Chemical Technology	15	1820	0.8
<u>AGE GROUP</u>			
18 to 19 years	0	40	0.0
20 to 29 years	224	23560	1.0
30 to 39 years	196	12220	1.6
40 to 49 years	124	7780	1.6
50 to 59 years	47	3460	1.4
60 to 65 years	0	400	0.0
<u>SHIFT</u>			
Straight days	478	40820	1.2
Rotating shifts	96	5840	1.6
Straight shift	17	700	2.4
<u>PAYROLL</u>			
Hourly	223	19780	1.1
Weekly	261	11680	2.2
Monthly	107	16000	0.7

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	170	2373	7.2
<u>SEX</u>			
Female	78	400	19.5
Male	92	1973	4.7
<u>OCCUPATION</u>			
Life scientist	3	50	6.0
Physical scientist	21	370	5.7
Engineer	9	228	3.9
Technical assistant	28	232	12.1
Administrative and managerial personnel	5	146	3.4
Clerical personnel	59	346	17.1
Laborer	8	131	6.1
Maintenance personnel	8	101	7.9
Protective personnel	3	151	2.0
Craftsman	18	490	3.7
Chemical operator	3	57	5.3
Equipment operator	5	71	7.0
<u>RACE</u>			
Colored	10	156	6.4
White	160	2217	7.2
<u>MARITAL STATUS</u>			
Married	116	1925	6.0
Single	43	396	10.9
Divorced	7	26	26.9
Widowed	4	26	15.4
<u>HEALTH STATUS*</u>			
H-1	24	537	4.5
H-2	128	1596	8.0
H-3	18	240	7.5

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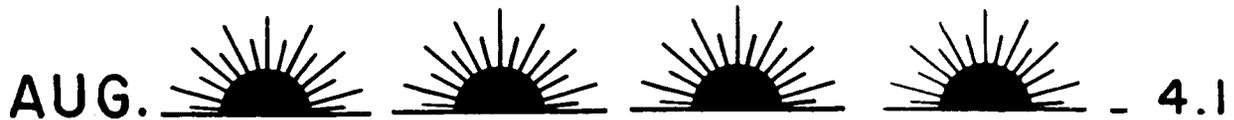
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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	3	80	3.8
Physics	3	80	3.8
Chemistry	29	208	13.9
Reactor Technology	7	126	5.6
Biology	7	103	6.8
Metallurgy	5	65	7.7
Training Program	1	31	3.2
Graduate Training Program	0	0	
Health Physics	15	113	13.3
Engineering and Maintenance	45	903	5.0
Industrial Relations	15	184	8.2
Health	2	22	9.1
General Office	12	138	8.7
Security	9	152	5.9
Director	6	57	10.5
Wage Standards	0	3	0.0
Mathematics Panel	1	17	5.9
Chemical Technology	10	91	11.0
<u>AGE GROUP</u>			
18 to 19 years	0	2	0.0
20 to 29 years	87	1178	7.4
30 to 39 years	51	611	8.3
40 to 49 years	20	389	5.1
50 to 59 years	11	173	6.4
60 to 65 years	1	20	5.0
<u>SHIFT</u>			
Straight days	145	2041	7.1
Rotating shifts	22	297	7.4
Straight shift	3	35	8.6
<u>PAYROLL</u>			
Hourly	43	989	4.3
Weekly	98	584	16.8
Monthly	29	800	3.6

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SEVERITY RATE
Days Lost Per Absence
EACH SYMBOL REPRESENTS 1 DAY



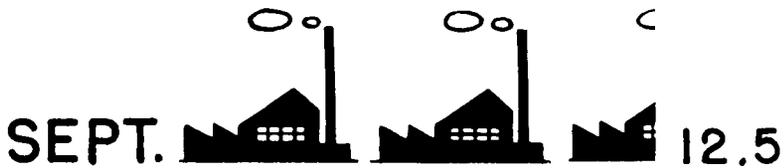
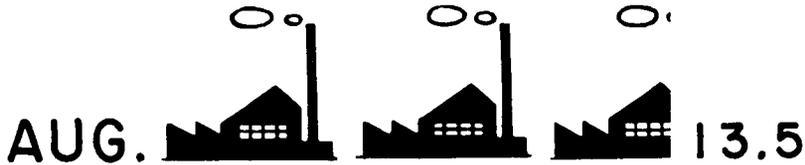
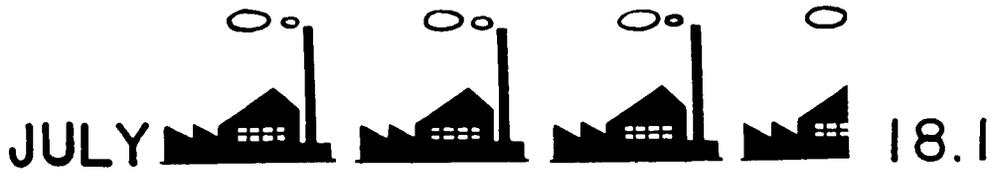
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DISABILITY RATE

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

JULY



AUG.



SEPT.



PERCENT OF EMPLOYEES VISITING DISPENSARY

EACH SYMBOL REPRESENTS 10%

