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HEALTH DIVISION
REPORT FOR THE MONTH ENDING
JANUARY 31, 1951

J. S. Felton



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CARBIDE AND CARBON CHEMICALS COMPANY
A DIVISION OF UNION CARBIDE AND CARBON CORPORATION



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Report Number OENL-960
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HEALTH DIVISION

REPORT FOR THE MONTH ENDING JANUARY 31, 1951

J. S. Felton, M. D.

Date Issued

SEP 28 1951

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

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DISTRIBUTION OF EFFORT FOR THE MONTH OF JANUARY 1951

	<u>Monthly</u>	<u>Weekly</u>	<u>Hourly</u>
<u>Personnel</u>			
Physicians	3	0	0
Industrial Designer	1	0	0
Nurses	1	6	0
Medical Technician	0	3	0
Office Personnel	0	7	0
Custodial Personnel	0	0	3
X-ray Technician	0	1	0
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 1/3	0	0
Dispensary Service	1	0	0
Health Education	1/3	0	0
<u>Industrial Designer</u>			
	1	0	0
<u>Nurses</u>			
Supervision	1/2	0	0
Dispensary Shift Nursing	1/2	6	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	3
	<u>5</u>	<u>17</u>	<u>3</u>

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STATISTICAL SUMMARY

Severity Rate 5.3 days lost per illness absence
 Disability Rate 22.8 days lost per 1000 days scheduled
 Frequency Rate 3.9 illness absences per 1000 days scheduled

Number of Patients

Employee 1361
 Non-employee 82
 Total 1443

Number of Visits

Employee 3176
 Non-employee
 A.E.C. 3
 Bechtal Corp. 9
 du Pont (Savannah) 37
 Foster-Wheeler Corp. 5
 J. A. Jones Const. Co. 8
 Other 64
 Total 125
 Total all visits 3301

Number of Procedures 4537

Number of Employees at the Laboratory 2807
 Percent of Employees Visiting Dispensary 45.0
 Number of Visits per Employee 1.1
 Percent Visitors Visiting Dispensary 62.6
 Number of Visits per Visitor 1.0
 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 : 2
 Ratio of Non-occupational to Occupational Injuries, all visits 1 : 4.2
 Ratio of Occupational to Non-occupational Illnesses, first visit 1 : 896
 Ratio of Occupational to Non-occupational Illnesses, all visits 1 : 156
 Ratio of Occupational to Non-occupational Absences 1 : 49
 Ratio of Occupational to Non-occupational Days Lost 1 : 47

PROCEDURES ACCOMPLISHED FOR THE MONTH OF JANUARY 1951

	<u>No. of Procedures</u>
Non-occupational injury	91
" " " , revisit	58
Non-occupational illness	896
" " " , revisit	352
Occupational injury or exposure, chemical	14
" " " " , " , revisit	30
Occupational injury or exposure, chemical, a.o.q.*	2
" " " " , " , " , revisit	1
Occupational injury or exposure, n.o.c.**	166
" " " " , " , revisit	405
Occupational injury or exposure, n.o.c.**, a.o.q.*	0
" " " " , " , " , revisit	2
Occupational injury or exposure, radiation	0
" " " " , " , revisit	0
Occupational injury or exposure, radiation, a.o.q.*	1
" " " " , " , " , revisit	0
Occupational illness, n.o.c.**	1
" " " , " , revisit	7
Absence due to illness or injury, non-occupational	294
" " " " " " , occupational	6
Physical examination, industrial hygiene	152
Physical examination, pre-placement	115
Physical examination, rehire	9
Physical examination, periodic health	2
Physical examination, food handler	0
Physical examination, other	20
Physical examination, termination	23
Physical examination, job transfer	2
Audiogram	152
Blood donation	11
Clinical laboratory procedure †	370
Electrocardiogram	118
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	60
Spectacles ordered, prescription	32
Spectacles issued, prescription	29
Orthorater examination	131
Orthorater examination, field	3
Partial replacement	19
Adjustment or repair	32
Advisory service	11
Total	317
X-ray examination:	
X-ray examination, non-occupational condition	23
X-ray examination, occupational condition	220
Total	243
Special study interview	0
Psychodiagnostic test	4
Consultation, non-occupational condition	158
Consultation, occupational condition	5
Consultation without patient, non-occupational	25
Consultation without patient, occupational	4
Home visit	0
Pre-marital serodiagnostic test	3
Immunization	441
Diagnostic procedure for an outside physician	37
GRAND TOTAL	4537

* 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	1
Basal Metabolism	4
Bleeding Time	1
Blood Cholesterol	1
Blood Glucose	14
Clotting Time	1
Complete Blood Count	184
Feces - Parasitological	1
Hematocrit	2
Kahn	152
Kahn - Other - Titer	11
Red Blood Count and Hemaglobin	18
Rh Factor	142
Sedimentation Rate	7
Typing - Blood	142
Urinalysis	208
Vital Capacity	2
White blood count and differential	12
Miscellaneous	1
Total	904

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DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3821
Return to modified or part-time work	411
Remain off work	132
Granted leave	0
Died in plant	0
Rejected	0
Accepted conditionally	4
Accepted	120
Sent to hospital or physicians office	49
AGGREGATE	4537

ATTENDANT

First aid attendant	7
First aid attendant and nurse	1
First aid attendant, nurse and doctor	1
Nurse	2522
Nurse and doctor	207
Doctor	591
Doctor and first aid attendant	3
Technician	1205
Psychologist	0
AGGREGATE	4537

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	128	128
2 days	32	64
3 days	24	72
4 days	19	76
5 days	17	85
6 days	7	42
7 days	7	49
8 days	2	16
9 days	5	45
10 days	8	80
11 days	3	33
12 days	2	24
13 days	3	39
14 days	1	14
15 days	4	60
16 days	1	16
19 days	1	19
20 days	1	20
22 days	2	44
24 days	3	72
27 days	2	54
28 days	1	28
35 days	1	35
37 days	1	37
41 days	1	41
57 days	1	57
58 days	1	58
98 days	1	98
Total	300	1406

NUMBER OF DIAGNOSES FOR ALL VISITS

No. of Diagnoses

INJURIES

Non-occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	49
Lacerations	43
Contusions	25
Strains and Sprains	28
Foreign bodies (in eye)	2
Burns (thermal, chemical and radiant)	26
Amputations (of fingers)	7
Head injury	5
Total non-occupational injuries	185

Occupational:

Superficial injuries (abrasions, blisters, insect bites, scratches)	145
Lacerations	209
Contusions	63
Sprains and strains	42
Foreign bodies (in eye)	4
Burns (thermal, chemical and radiant)	104
Fractures	35
Amputations (of arm and hand)	1
Head injury	16
Poisoning by	
Mercury and its compounds	12
Other gases and vapors	9
Miscellaneous	1
Total occupational injuries	641

TOTAL INJURIES 826

ILLNESSES

No. of Procedures

Non-occupational:

Respiratory	790
Digestive	229
Circulatory	46
Diseases of blood and blood forming organs	4
Genito-urinary	65
Bones and joints	114
Diseases of skin	133
Dermatitis	6
Disease of eye	106
Disease of ear	19
Allergic	17
Endocrine	0
Metabolic	43
Infectious diseases	54
Psychoneurotic disorders	83
Common benign tumors	13
Symptoms and ill-defined illnesses	42
Total non-occupational illnesses	1764

Occupational:

Dermatitis due to:		
Solvents	6	
Other chemicals	4	
Radiation	1	11
Total occupational illnesses		11

TOTAL ILLNESSES 1775

No abnormal findings	24
Skin immunity and sensitization tests	1
Persons receiving prophylactic inoculations and vaccinations	32
Follow-up examinations for tuberculosis not needing further medical care	1
Follow-up examination after operations, injury or disease other than tuberculosis	37
Normal pregnancy	3
Postpartum observation	2
Medical surgical aftercare	13
Immunizations	414

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	<u>No. of Procedures</u>
Impairment due to accidental fall	1
Impairment due to other and unspecified accidents and poisoning, except war	6
Impairment due to war injuries	4
Operations as cause of absences	23
Deliveries and complications of pregnancy, childbirth and the puerperium	2
Special services not involving diagnosis	1566
GRAND TOTAL	<u>4730</u>

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
<u>Illnesses:</u>		
Respiratory	172	754
Digestive system	46	205
Genito-urinary system	23	56
Bones and joints	8	45
Diseases of the skin	1	4
Diseases of the eye	2	3
Diseases of the ear	3	4
Infectious diseases	2	16
Symptoms and ill-defined conditions	12	19
<u>Injuries:</u>		
Superficial injuries, abrasions, blisters, insect bites, scratches	1	27
Lacerations	1	5
Contusions	1	1
Strains and Sprains	3	3
Foreign bodies	1	0
Burns, thermal, chemical, radiant	2	3
Fractures	3	0
Amputations	1	10
Operations as cause of absences	16	190
Follow-up examination after operation, injury, or disease other than tuberculosis	2	61
<u>Total</u>	<u>300</u>	<u>1406</u>

NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	3176	2807	1.1
<u>Sex</u>			
Female	518	448	1.2
Male	2658	2359	1.1
<u>Occupation</u>			
Life scientist	17	52	0.3
Physical scientist	427	506	0.8
Engineer	236	313	0.8
Technical assistant	319	266	1.2
Administrative and managerial personnel	136	151	0.9
Clerical	371	382	1.0
Laborer	254	172	1.5
Maintenance	105	105	1.0
Protective	225	165	1.4
Craftsman	883	566	1.6
Chemical operator	118	57	2.1
Equipment operator	85	72	1.2
<u>Race</u>			
Colored	200	168	1.2
White	2976	2639	1.1
<u>Marital Status</u>			
Married	2649	2297	1.2
Single	461	449	1.0
Widowed	24	26	0.9
Divorced	42	35	1.2
<u>Health Status*</u>			
H-1	602	573	1.1
H-2	2290	1952	1.2
H-3	284	282	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.

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<u>Division</u>	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
Operations	135	91	1.5
Physics	75	105	.7
Chemistry	224	211	1.1
Reactor Technology	67	89	.8
Biology	67	103	.7
Metallurgy	79	78	1.0
Technical Training Program	12	16	.8
School of Reactor Technology	7	19	.4
Health Physics	142	114	1.2
Engineering and Maintenance	1366	1012	1.3
Industrial Relations	232	185	1.3
Health	12	24	.5
General Office	113	138	.8
Security	184	155	1.2
Directors	83	81	1.0
Mathematics Panel	15	15	1.0
Chemical Technology	176	125	1.4
Analytical Chemistry Y-12	24	31	.8
Chemical Research	45	41	1.1
Electromagnetic Research	30	57	.5
Isotope, Research and Production	55	86	.6
ANP	33	31	1.1
<u>Age Group</u>			
18 to 19 years	28	17	1.6
20 to 29 years	1227	1083	1.1
30 to 39 years	1117	1042	1.1
40 to 49 years	593	484	1.2
50 to 59 years	201	166	1.2
60 to 69 years	10	15	.7
<u>Shift</u>			
Straight days	2658	2479	1.1
Rotating shifts	453	293	1.5
Straight shift	65	35	1.9
<u>Payroll</u>			
Hourly	1654	1124	1.5
Weekly	754	683	1.1
Monthly	768	1000	.8

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TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Loss</u>
TOTAL	1406	61754	2.3
Sex			
Male	1013	51898	2.0
Female	393	9856	4.0
Occupations			
Life Scientist	13	1144	1.1
Physical Scientist	210	11132	1.9
Engineer	61	6886	.9
Technical assistant	101	5852	1.7
Administrative and managerial personnel	65	3322	2.0
Clerical personnel	178	8404	2.1
Laborer	249	3784	6.6
Maintenance personnel	76	2310	3.3
Protective personnel	134	3630	3.7
Craftsman	253	12452	2.0
Chemical operator	35	1254	2.8
Equipment operator	31	1584	2.0
Race			
Colored	234	3696	6.3
White	1172	58058	2.0
Marital Status			
Married	1085	50534	2.1
Single	271	9878	2.7
Widowed	27	572	4.7
Divorced	23	770	3.0
Health Status*			
H-1	230	12606	1.8
H-2	1086	42944	2.5
H-3	90	6204	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>Division</u>	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Loss</u>
Operations	25	2002	1.2
Physics	56	2310	2.4
Chemistry	88	4642	1.9
Reactor Technology	31	1958	1.6
Biology	38	2266	1.7
Metallurgy	31	1716	1.8
Technical Training Program	20	352	5.7
School of Reactor Technology	1	418	.2
Health Physics	48	2508	1.9
Engineering and Maintenance	511	22264	2.3
Industrial Relations	167	4070	4.1
Health	12	528	2.3
General Office	46	3036	1.5
Security	132	3410	3.9
Directors	47	1782	2.6
Mathematic Panel	17	330	5.2
Chemical Technology	30	2750	1.1
Analytical Chemistry Y-12	31	682	4.5
Chemical Research	15	902	1.7
Electromagnetic Research	11	1254	.9
Isotope, Research and Production	44	1892	2.3
ANP	5	682	.7
<u>Age Group</u>			
18 to 19 years	0	374	0
20 to 29 years	576	23826	2.4
30 to 39 years	528	22924	2.3
40 to 49 years	201	10648	1.9
50 to 59 years	73	3652	2.0
60 to 65 years	28	330	8.5
<u>Shift</u>			
Straight days	1100	54538	2.0
Rotating shifts	196	6446	3.0
Straight shift	110	770	14.3
<u>Payroll</u>			
Hourly	734	24728	3.0
Weekly	367	15026	2.4
Monthly	305	22000	1.4

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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	267	2807	9.5
Sex			
Female	91	448	20.3
Male	176	2359	7.5
Occupations			
Life Scientist	3	52	5.8
Physical scientist	44	506	8.7
Engineer	25	313	8.0
Technical assistant	27	266	10.2
Administrative and managerial personnel	8	151	5.3
Clerical personnel	69	382	18.1
Laborer	16	172	9.3
Maintenance personnel	9	105	8.6
Protective personnel	17	165	10.3
Craftsman	37	566	6.5
Chemical operator	4	57	7.0
Equipment operator	8	72	11.1
Race			
Colored	17	168	10.1
White	250	2639	9.5
Marital status			
Married	213	2297	9.3
Single	42	449	9.4
Widowed	3	26	11.5
Divorced	9	35	25.7
Health Status *			
H-1	45	573	7.9
H-2	194	1952	9.9
H-3	28	282	9.9

- * 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.

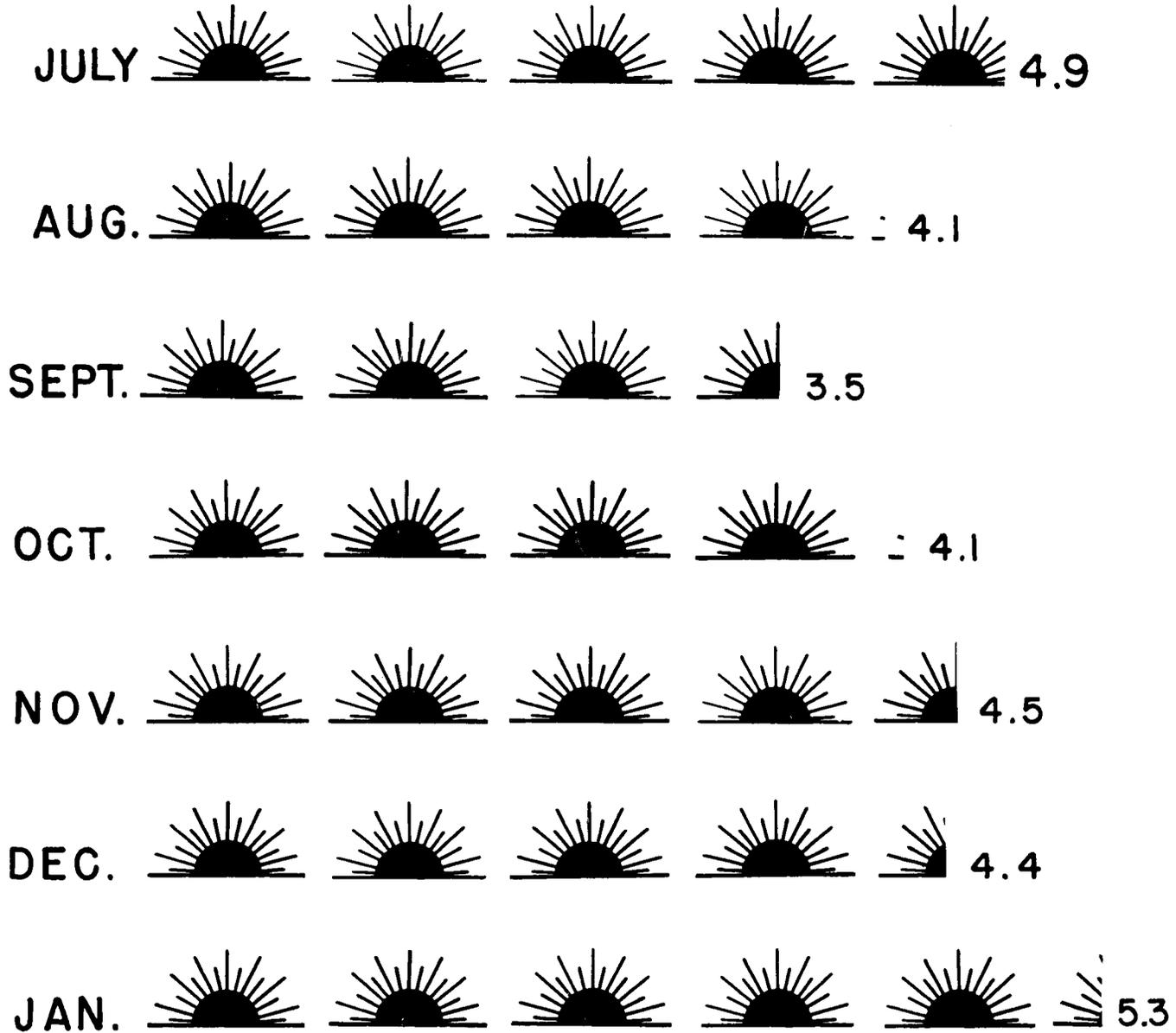
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	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>Divisions</u>			
Operations	10	91	11.0
Physics	5	105	4.8
Chemistry	21	211	10.0
Reactor Technology	12	89	13.5
Biology	4	103	3.9
Metallurgy	9	78	11.5
Technical Training Program	3	16	18.8
School of Reactor Technology	1	19	5.3
Health Physics	13	114	11.4
Engineering and Maintenance	82	1012	8.1
Industrial Relations	18	185	9.7
Health	3	24	12.5
General Office	10	138	7.2
Security	25	155	16.1
Directors	11	81	13.6
Mathematics Panel	4	15	26.7
Chemical Technology	7	125	5.6
Analytical Chemistry Y-12	7	31	22.6
Chemical Research	6	41	14.6
Electromagnetic Research	5	57	8.8
Isotope, Research and Production	9	86	10.5
ANP	2	31	6.5
<u>Age Group</u>			
18 to 19 years	0	17	0
20 to 29 years	118	1083	10.9
30 to 39 years	94	1042	9.0
40 to 49 years	40	484	8.3
50 to 59 years	14	166	8.4
60 to 65 years	1	15	6.7
<u>Shift</u>			
Straight days	240	2479	9.7
Rotating shifts	23	293	7.8
Straight shift	4	35	11.4
<u>Payroll</u>			
Hourly	86	1124	7.7
Weekly	107	683	15.7
Monthly	74	1000	7.4

SEVERITY RATE

Days Lost Per Absence

EACH SYMBOL REPRESENTS 1 DAY

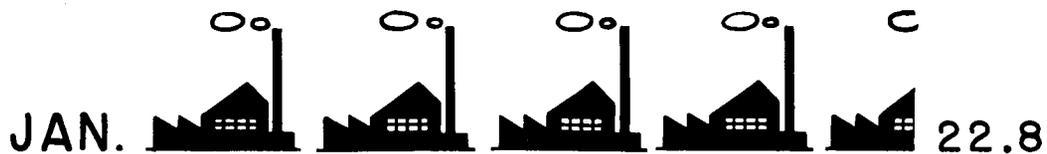
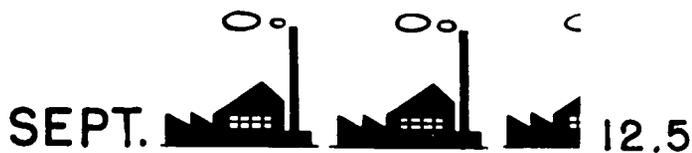
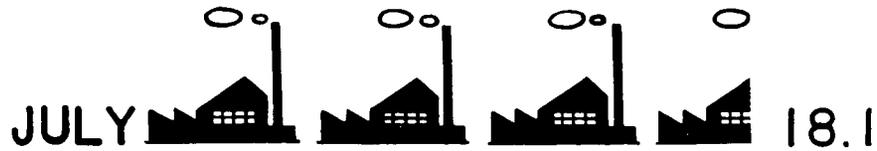


DISABILITY RATE

Dwg. No. 10560
Unclassified

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.



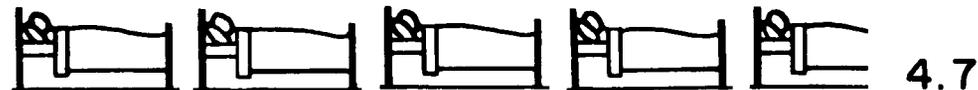
OCT.



NOV.



DEC.



JAN.



PERCENT OF EMPLOYEES VISITING DISPENSARY

Dwg. No. 10562
Unclassified

EACH SYMBOL REPRESENTS 10%

