

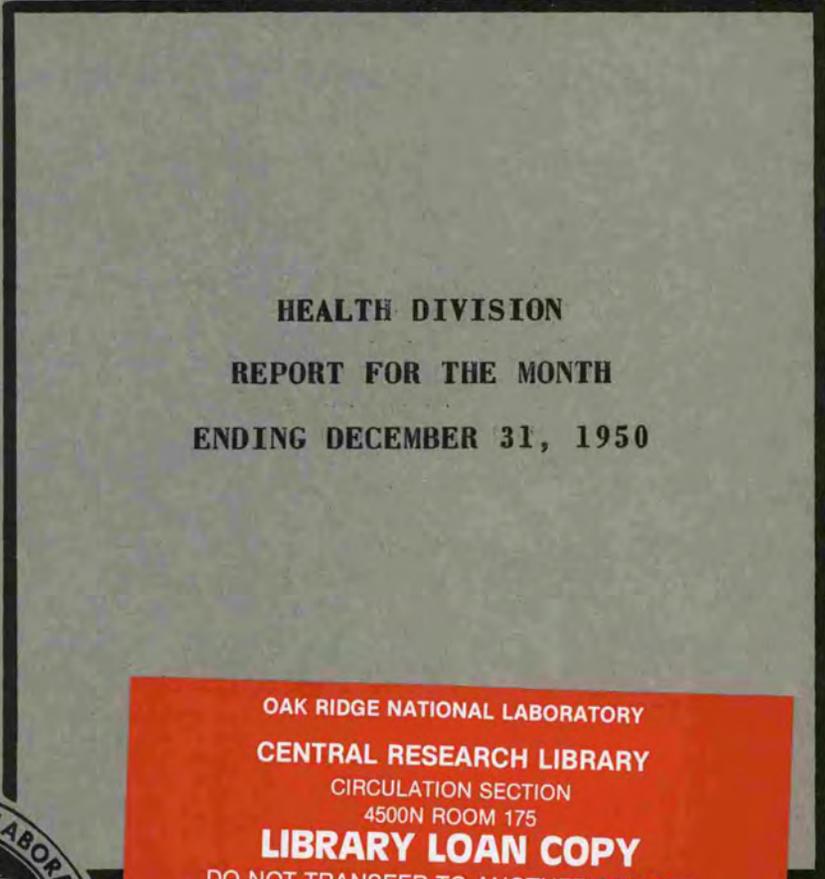
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ORNL 959
Progress Report
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HEALTH DIVISION
REPORT FOR THE MONTH
ENDING DECEMBER 31, 1950



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HEALTH DIVISION

REPORT FOR THE MONTH ENDING DECEMBER 31, 1950

J. S. Felton, M.D.

DATE ISSUED

MAY 18 1951

OAK RIDGE NATIONAL LABORATORY
operated by
CARBIDE AND CARBON CHEMICALS COMPANY
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DISTRIBUTION OF EFFORT FOR THE MONTH OF DECEMBER 1950

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

Number of technical personnel added: 0
Number of technical personnel terminated: 1

ALLOCATION OF TIME

<u>Physicians</u>			
Administrative	1/3	0	0
Physical Examination	1/3	0	0
Dispensary Service	2	0	0
Health Education	1/3		
<u>Industrial Designer</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>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>16</u>	<u>3</u>

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STATISTICAL SUMMARY

Severity Rate 4.4 days lost per illness absence
 Disability Rate 20.7 days lost per 1000 days scheduled
 Frequency Rate 4.7 illness absences per 1000 days scheduled

Number of Patients

Employee 1242
 Non-employee 131
 Total 1373

Number of Visits

Employee 2767
 Non-employee
 A.E.C. 2
 Bechtel Corp. 1
 Foster-Wheeler Corp. 7
 J.A. Jones Const. Co. ... 88
 Other 34
 Total 132
 Total all visits 2899

Number of Procedures 3909
 Number of Employees at the Laboratory 2759
 Percent of Employees Visiting Dispensary 45.0
 Number of Visits per Employee 1.0
 Number of Illness Absences per Employee 0.1

Ratio of Occupational to Non-occupational Procedures 1 : 0.9
 Ratio of Non-occupational to Occupational Injuries, first visit 1 : 2
 Ratio of Non-occupational to Occupational Injuries, all visits 1 : 3.0
 Ratio of Occupational to Non-occupational Illnesses, first visit 1 : 883
 Ratio of Occupational to Non-occupational Illnesses, all visits 1 : 397
 Ratio of Occupational to Non-occupational Absences 1 : 27.2
 Ratio of Occupational to Non-occupational Days Lost 1 : 1140

PROCEDURES ACCOMPLISHED FOR THE MONTH OF DECEMBER 1950

	<u>No of Procedures</u>
Non-occupational injury	66
" " " , revisit	94
Non-occupational illness	883
" " " , revisit	308
Occupational injury or exposure, chemical	5
" " " " , " , revisit	24
Occupational injury or exposure, chemical, a.o.q.*	1
" " " " , " , " , revisit	1
Occupational injury or exposure, n.o.c.**	125
" " " " , " , revisit	321
Occupational injury or exposure, n.o.c.**, a.o.q.*	1
" " " " , " , " , revisit	5
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	3
Absence due to illness or injury, non-occupational	272
" " " " " " , occupational	10
Physical examination, industrial hygiene	103
Physical examination, pre-placement	51
Physical examination, rehire	5
Physical examination, periodic health	4
Physical examination, food handler	2
Physical examination, other	12
Physical examination, termination	117
Physical examination, job transfer	4
Audiogram	159
Blood donation	6
Clinical laboratory procedure†	267
Electrocardiogram	71
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	26	
Spectacles ordered, prescription	26	
Spectacles issued, prescription	26	
Orthorater examination	71	
Orthorater examination, field	0	
Partial replacement	10	
Adjustment or repair	35	
Advisory service	7	
Total		201
X-ray examinations:		
X-ray examination, non-occupational condition	22	
X-ray examination, occupational condition	245	
Total		267
Special study interview		0
Psychodiagnostic test		2
Consultation, non-occupational condition		127
Consultation, occupational condition		4
Consultation without patient, non-occupational		65
Consultation without patient, occupational		5
Home visit		0
Pre-marital serodiagnostic test		2
Immunization		284
Diagnostic procedure for an outside physician		31
GRAND TOTAL		3909

†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	1
Basal Metabolism	3
Blood Glucose	1
Complete Blood Count	125
Feces - Bacteriological	2
Feces - Parasitological	4
Kahn - Presumptive	94
Kahn - Titer	3
Kahn - Standard	4
Red Blood Count and Hemaglobin	15
Rh Factor	70
Sedimentation Rate	23
Typing - Blood	70
Urinalysis	302
Vital Capacity	1
White Blood Count and Differential	23
Miscellaneous	1
Total	742

DISPOSITION FOLLOWING DISPENSARY VISITS

Return to regular work	3027
Return to modified or part-time work	246
Remain off work	497
Granted leave	0
Died in plant	0
Rejected	2
Accepted conditionally	1
Accepted	52
Sent to hospital or physician's office	83
AGGREGATE	3909

ATTENDANT

First Aid Attendant	6
First Aid Attendant and Nurse	6
First Aid Attendant, Nurse and Doctor	0
Nurse	2077
Nurse and Doctor	221
Doctor	612
Doctor and First Aid Attendant	0
Technician	987
AGGREGATE	3909

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TIME LOST DUE TO ILLNESS ABSENCE

	<u>No. of Absences</u>	<u>No. of Days Lost</u>
Less than 1 day	48	0
1 day	114	114
2 days	32	64
3 days	13	39
4 days	10	40
5 days	13	65
6 days	9	54
7 days	4	28
8 days	3	24
9 days	8	72
10 days	4	40
11 days	4	44
12 days	3	36
13 days	1	13
17 days	1	17
18 days	2	36
21 days	2	42
30 days	1	30
32 days	1	32
33 days	2	66
34 days	2	68
35 days	2	70
37 days	1	37
42 days	1	42
68 days	1	68
	282	1141

NUMBER OF PROCEDURES BY GENERAL DIAGNOSIS GROUPS

	<u>Number of Procedures</u>	
Illnesses:		
Allergy	15	
Blood abnormality	7	
Cardio-vascular disease	25	
Dental disorder	39	
Dermatitis	51	
Endocrine disorder	43	
Eye and ear disorder	73	
Gastro-intestinal disease	128	
Genito-urinary disease	34	
Hernia	5	
Infections and parasitic disease	115	
Menstrual disorder	21	
Nervous and mental state, neurologic disorder	40	
New growth	23	
Orthopedic disorder	109	
Pain and headache	96	
Respiratory disease	795	
Tuberculosis	1	
Miscellaneous	55	
Aggregate		1675
Injuries:		
Injuries	652	
Injuries, potential	0	
Aggregate		652
Operative procedure		40
Total		2367
Special services not involving diagnosis		1542
GRAND TOTAL		3909

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ABSENCES AND TIME LOST BY GENERAL DIAGNOSIS GROUPS

	<u>No. of Absences</u>	<u>Days Lost</u>
Illnesses:		
Allergy	5	27
Blood abnormality	1	30
Cardio-vascular disease	4	34
Dental disorder	3	8
Dermatitis	1	3
Endocrine disorder	1	0
Eye and ear disorder	0	0
Gastro-intestinal disease	45	136
Genito-urinary disease	9	46
Hernia	1	0
Infections and parasitic disease	6	17
Menstrual disease	9	7
Nervous and mental state, neurologic disorder	7	31
New growth	1	1
Orthopedic disorder	3	4
Pain and headache	8	30
Respiratory disease	142	383
Tuberculosis	1	33
Miscellaneous	5	27
Injuries:		
Injuries, non-occupational	18	121
Injuries, occupational	0	0
Operative procedures	12	203
Total	282	1141

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NUMBER OF VISITS BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>No. of Visits</u>	<u>No. of Employees</u>	<u>Average</u>
TOTAL	2767	2759	1.0
<u>SEX</u>			
Female	474	446	1.1
Male	2293	2313	1.0
<u>OCCUPATION</u>			
Life scientist	24	50	0.5
Physical scientist	388	502	0.8
Engineer	238	312	0.8
Technical assistant	288	257	1.1
Administrative and managerial personnel	141	151	0.9
Clerical personnel	346	381	0.9
Laborer	201	165	1.2
Maintenance personnel	109	103	1.1
Protective personnel	198	162	1.2
Craftsman	666	547	1.2
Chemical operator	105	57	1.8
Equipment operator	63	72	0.9
<u>RACE</u>			
Colored	161	166	1.0
White	2606	2593	1.0
<u>MARITAL STATUS</u>			
Married	2300	2253	1.0
Single	398	447	0.9
Divorced	49	33	1.5
Widowed	20	26	0.8
<u>HEALTH STATUS*</u>			
H-1	469	567	0.8
H-2	1996	1913	1.0
H-3	302	279	1.1

*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	93	86	1.1
Physics	58	89	0.7
Chemistry	179	205	0.9
Reactor Technology	139	137	1.0
Biology	99	106	0.9
Metallurgy	78	73	1.1
Training Program	25	30	0.8
Graduate Training Program	0	0	
Health Physics	147	114	1.3
Engineering and Maintenance	1091	992	1.1
Industrial Relations	189	196	1.0
Health	14	21	0.7
General Office	109	141	0.8
Security	210	159	1.3
Directors	50	66	0.8
Wage Standards	0	3	0.0
Mathematics Panel	9	17	0.5
Chemical Technology	97	94	1.0
Analytical Chemistry - Y-12	22	30	0.7
Materials Chemistry	41	42	1.0
Electromagnetic Research	30	56	0.5
Isotope Research and Production	58	87	0.7
ANP	29	15	1.9
<u>AGE GROUP</u>			
18 to 19 years	11	16	0.7
20 to 29 years	1093	1072	1.0
30 to 39 years	968	1017	1.0
40 to 49 years	501	477	1.1
50 to 59 years	189	163	1.2
60 to 65 years	5	14	0.4
<u>SHIFT</u>			
Straight days	2299	2428	0.9
Rotating shifts	424	296	1.4
Straight shift	44	35	1.3
<u>PAYROLL</u>			
Hourly	1268	1093	1.2
Weekly	714	670	1.1
Monthly	785	996	0.8

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TIME LOST BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Days Lost</u>	<u>Scheduled Days</u>	<u>Percent Time Lost</u>
TOTAL	1141	55180	2.1
<u>SEX</u>			
Female	284	8920	3.2
Male	857	46260	1.9
<u>OCCUPATION</u>			
Life scientist	14	1000	1.4
Physical scientist	103	10040	1.0
Engineer	51	6240	0.8
Technical assistant	168	5140	3.3
Administrative and managerial personnel	100	3020	3.3
Clerical personnel	142	7620	1.9
Laborer	125	3300	3.8
Maintenance personnel	111	2060	5.4
Protective personnel	88	3240	2.7
Craftsman	195	10940	1.8
Chemical operator	12	1140	1.1
Equipment operator	32	1440	2.2
<u>RACE</u>			
Colored	172	3320	5.2
White	969	51860	1.9
<u>MARITAL STATUS</u>			
Married	922	45060	2.0
Single	202	8940	2.3
Divorced	9	660	1.4
Widowed	8	520	1.5
<u>HEALTH STATUS*</u>			
H-1	130	11340	1.1
H-2	838	38260	2.2
H-3	173	5580	3.1

*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 Lost</u>
Operations	20	1720	1.2
Physics	11	1780	0.6
Chemistry	103	4100	2.5
Reactor Technology	60	2740	2.2
Biology	44	2120	2.1
Metallurgy	92	1460	6.3
Training Program	0	600	0.0
Graduate Training Program	0	0	
Health Physics	28	2280	1.2
Engineering and Maintenance	400	19840	2.0
Industrial Relations	166	3920	4.2
Health	17	420	4.0
General Office	49	2820	1.7
Security	63	3180	2.0
Directors	22	1320	1.7
Wage Standards	0	60	0.0
Mathematics Panel	1	340	0.3
Chemical Technology	6	1880	0.3
Analytical Chemistry - Y-12	14	600	2.3
Materials Chemistry	13	840	1.5
Electromagnetic Research	8	1120	0.7
Isotope Research and Production	24	1740	1.4
ANP	0	300	0.0
<u>AGE GROUP</u>			
18 to 19 years	0	320	0.0
20 to 29 years	435	21440	2.0
30 to 39 years	273	20340	1.3
40 to 49 years	310	9540	3.2
50 to 59 years	123	3260	3.8
60 to 65 years	0	280	0.0
<u>SHIFT</u>			
Straight days	1010	48560	2.1
Rotating shifts	121	5920	2.0
Straight shift	10	700	1.4
<u>PAYROLL</u>			
Hourly	546	21860	2.5
Weekly	344	13400	2.6
Monthly	251	19920	1.3

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EMPLOYEES WITH ONE OR MORE ILLNESS ABSENCES BY PERSONAL, OCCUPATIONAL AND GROUP CHARACTERISTICS

	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>TOTAL</u>	257	2759	9.3
<u>SEX</u>			
Female	99	446	22.2
Male	158	2313	6.8
<u>OCCUPATION</u>			
Life scientist	4	50	8.0
Physical scientist	50	502	10.0
Engineer	23	312	7.4
Technical assistant	32	257	12.5
Administrative and managerial personnel	12	151	7.9
Clerical personnel	72	381	18.9
Laborer	11	165	6.7
Maintenance personnel	7	103	6.8
Protective personnel	8	162	4.9
Craftsman	30	547	5.5
Chemical operator	2	57	3.5
Equipment operator	6	72	8.3
<u>RACE</u>			
Colored	12	166	7.2
White	245	2593	9.4
<u>MARITAL STATUS</u>			
Married	193	2253	8.6
Single	52	447	11.6
Divorced	9	33	27.3
Widowed	3	26	11.5
<u>HEALTH STATUS*</u>			
H-1	34	567	6.0
H-2	186	1913	9.7
H-3	37	279	13.3

*H-1 Physically qualified for any position.

H-2 Physically qualified for any position, but has minor defects.

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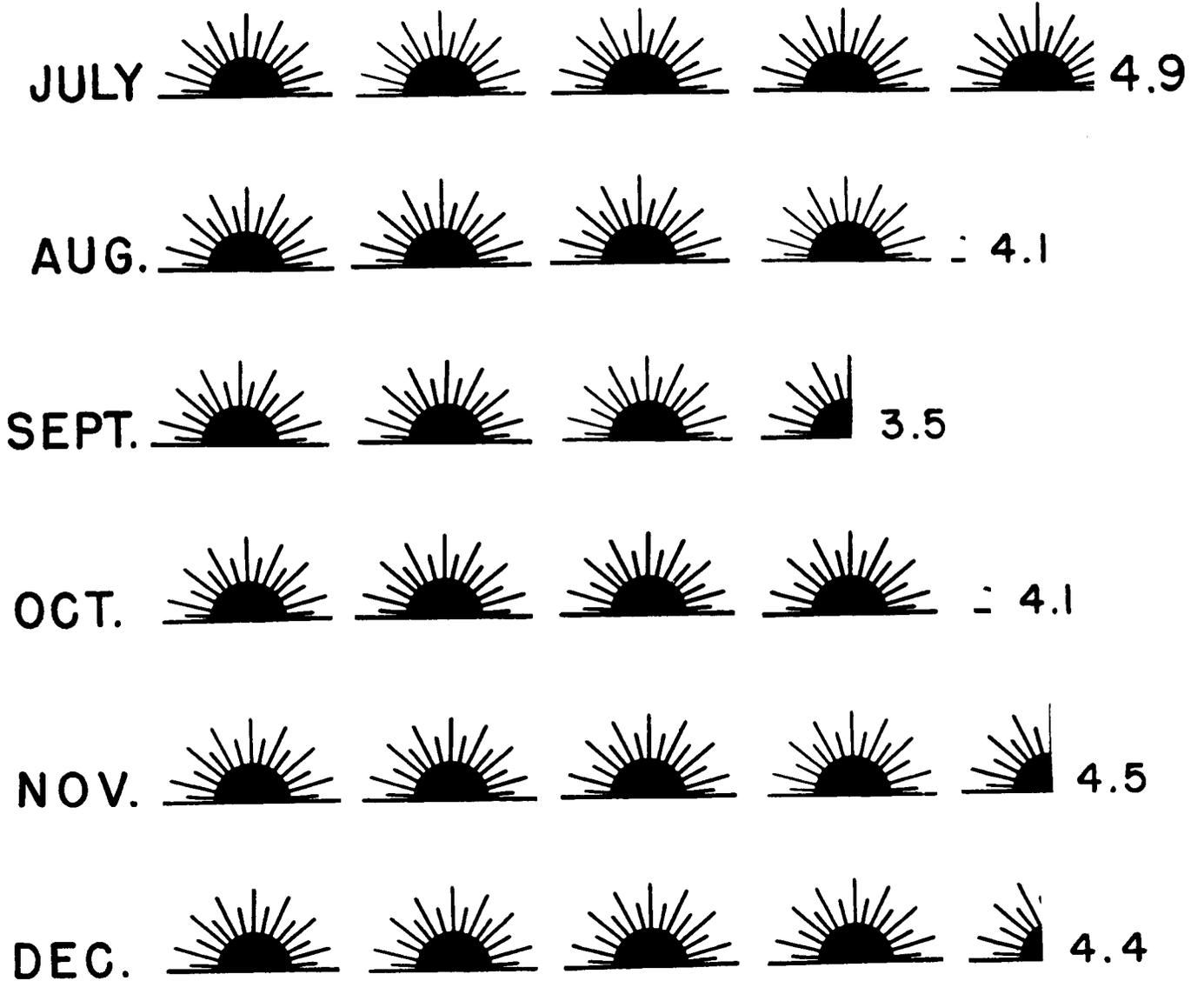
	<u>Absentees</u>	<u>No. of Employees</u>	<u>Percent Absentees</u>
<u>DIVISION</u>			
Operations	6	86	7.0
Physics	2	89	2.2
Chemistry	36	205	17.6
Reactor Technology	9	137	6.6
Biology	8	106	7.5
Metallurgy	8	73	11.0
Training Program	0	30	0.0
Graduate Training Program	0	0	
Health Physics	14	114	12.3
Engineering and Maintenance	69	992	7.0
Industrial Relations	18	196	9.2
Health	4	21	19.0
General Office	15	141	10.6
Security	21	159	13.2
Directors	11	66	16.7
Wage Standards	0	3	0.0
Mathematics Panel	1	17	5.9
Chemical Technology	7	94	7.4
Analytical Chemistry - Y-12	3	30	10.0
Materials Chemistry	10	42	23.8
Electromagnetic Research	3	56	5.4
Isotope Research and Production	12	87	13.8
ANP	0	15	0.0
<u>AGE GROUP</u>			
18 to 19 years	0	16	0.0
20 to 29 years	129	1072	12.0
30 to 39 years	71	1017	7.0
40 to 49 years	40	477	8.4
50 to 59 years	16	163	9.8
60 to 65 years	1	14	7.1
<u>SHIFT</u>			
Straight days	224	2428	9.2
Rotating shifts	32	296	10.8
Straight shift	1	35	2.9
<u>PAYROLL</u>			
Hourly	63	1093	5.8
Weekly	114	670	17.0
Monthly	80	996	8.0

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SEVERITY RATE Days Lost Per Absence

EACH SYMBOL REPRESENTS 1 DAY

Dwg. No. 10555
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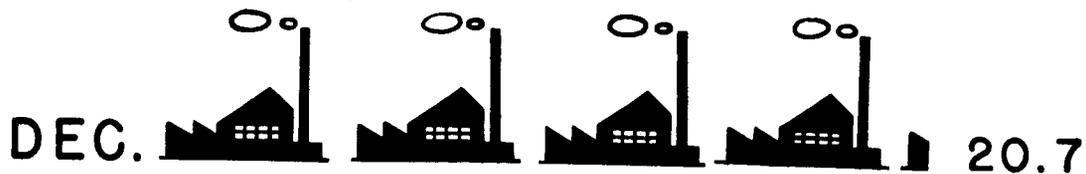
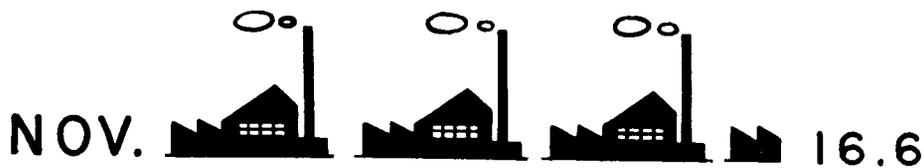
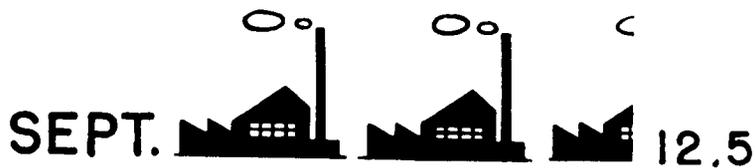
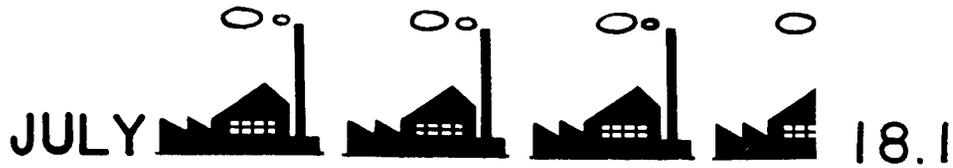


DISABILITY RATE

Dwg. No. 10556
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

Dwg. No. 10557
Unclassified

JULY



AUG.



SEPT.



OCT.



NOV.



DEC.



PERCENT OF EMPLOYEES VISITING DISPENSARY

Dwg. No. 10558
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EACH SYMBOL REPRESENTS 10%

