

M/788 SAFETY WORKS HERE

30 NEW STYLE SAFETIES, SPRINGS & DETENT PLUNERS WERE ASSEMBLED & PUT INTO GUNS. THESE ASSEMBLIES WERE LUBRICATED WITH MOLY GEN PASTE AS PER PROCESS CHANGE. THE SEAL LIFT OF EACH WAS CHECKED & RECORDED. WHEN THEY WERE ALL ASSEMBLED THE SAFETY ON & OFF FORCES (IN POUNDS) WERE MEASURED & RECORDED. THREE TRIES FOR EACH (ON & OFF) WERE TRIED & AVERAGED. THE SAFETY ON FORCES WENT FROM A LOW OF 7.0 TO A HIGH OF 17.3 WITH AN AVERAGE OF 11.8. THE SAFETY OFF FORCE WENT FROM A LOW OF 3.5 TO A HIGH OF 6.75 WITH AN AVERAGE OF 4.6. THE RESULTS (CHARTS) ARE ON FOLLOWING SHEETS.

James B. Willoughby
11-B-32

SEAR LIST

2 of 4

SERIAL #

1	.021	6143925
2	.019	6149114
3	.023	6149409
4	.0195	6147009
5	.020	6149555
6	.0215	6148365
7	.021	6147300
8	.019	6148045
9	.019	6148320
10	.023	6148175
11	.0195	6143332
12	.016	6149463
13	.020	6148652
14	.0165	6148144
15	.022	6149297
16	.022	6143348
17	.018	6149464
18	.022	6143367
19	.0185	6143036
20	.0215	6147041
21	.020	6149437
22	.019	6148646
23	.023	6148476
24	.019	6148174
25	.0195	6146990
26	.0205	6147365
27	.020	6143389
28	.0215	6143385
29	.0245	6143042
30	.0185	6147012

 $\bar{L} = .0203$

Safety On Forces

	<u>1</u>	<u>2</u>	<u>3</u>	<u>7</u>
1	15.0	14.5	15.0	14.8
2	11.0	11.0	11.25	11.1
3	13.0	14.0	13.5	13.5
4	12.75	12.5	11.75	12.25
5	12.5	11.75	12.5	12.25
6	12.0	10.5	11.25	11.25
7	10.5	10.75	9.0	10.1
8	11.5	11.0	11.0	11.2
9	12.25	11.25	11.0	11.5
10	13.25	11.5	12.0	12.25
11	10.5	10.25	9.75	10.2
12	7.0	7.0	7.0	7.0
13	9.75	9.5	9.5	9.6
14	12.25	11.75	11.25	11.75
15	12.5	11.5	11.5	11.8
16	17.5	17.	17.5	17.3
17	10.0	10.0	9.75	9.9
18	14.5	13.25	12.75	13.5
19	10.0	10.25	10.25	10.2
20	10.5	10.25	10.5	10.4
21	11.25	11.5	10.5	11.1
22	10.5	9.5	10.25	10.1
23	16.0	14.75	14.75	15.2
24	10.5	10.75	10.0	10.4
25	9.75	9.0	9.25	9.3
26	11.25	11.0	10.5	10.9
27	11.0	10.5	10.75	10.75
28	16.5	15.75	15.5	15.9
29	14.5	16.0	16.0	15.5
30	13.25	13.0	12.0	12.75

Z = 11.8

SAFETY OFF FORCES

4.54

	<u>1</u>	<u>2</u>	<u>3</u>	<u>$\bar{x}$</u>	
1	5.0	5.0	4.5	4.8	
2	5.75	5.5	5.5	5.6	
3	4.5	4.5	4.25	4.4	
4	4.25	4.0	4.0	4.1	
5	5.0	4.75	4.5	4.75	
6	4.5	3.75	4.0	4.1	
7	6.5	6.25	5.75	6.2	
8	4.5	4.25	4.0	4.25	
9	4.0	3.75	3.75	3.9	
10	4.75	3.75	3.75	4.1	
11	4.25	4.25	4.25	4.25	
12	4.0	4.0	3.5	3.8	
13	4.75	4.25	4.25	4.4	
14	7.0	7.0	6.25	6.75	
15	3.5	3.5	3.5	3.5	
16	6.5	6.5	6.5	6.5	
17	4.5	4.0	4.0	4.2	
18	4.0	3.75	4.0	3.9	
19	4.5	5.0	5.0	4.8	
20	4.25	3.75	4.0	4.0	
21	4.5	4.5	4.75	4.6	
22	4.25	4.5	4.5	4.4	
23	4.25	4.5	4.5	4.4	
24	4.5	5.25	4.5	4.75	
25	4.75	4.75	4.5	4.7	
26	4.0	4.25	4.0	4.1	
27	4.5	4.5	4.5	4.5	
28	4.25	4.25	4.25	4.25	
29	4.5	4.0	4.25	4.25	$\bar{x} = 4.6$
30	3.75	4.0	3.75	3.9	