

RESEARCH TEST MANUAL
STATUS REPORT

AS OF FEBRUARY 4, 1982

MEASUREMENTS (5000-5999)

<u>REMENTS (5000-5999)</u>		<u>DRAFT</u>	<u>REVISIONS</u>					<u>FINAL</u>
			<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
<u>STATIC MEASUREMENTS</u>								
5010	Headspace - Proof - Headspace							X
5020	Firing Pin Indent							
5025	Trigger Pull							
5030	Weight and Length							
5035	Stock Dimensions							
5040	Center of Gravity							
5045	Safe On-off Forces			X				
5050	Bolt Open Forces	X						
5055	Mag. Spring Forces(Shotguns)							
5060	Bore and Choke							
5065	Chamber Measurements(Chamber Cast)							
5070	Firing Pin Protrusion							
5075	Firing Pin Marking							
5080	Sear Lift Measurement(Centerfire)							

ENDURANCE TEST (6000-6999)

DRY CYCLE

6010	Common Dry Cycle Simulators							
	- Autoloading Shotgun							
	- Autoloading Centerfire							
	- Autoloading Rimfire							
	- Pump Action: All							
	- Break-Open Shotguns							
6015	M/XPI00 Headspace Advance							
6020	M/XPI00 Safe on-off							
6025	M/788 Safety							
6030	M/700 Extractor Impact							
6035	M/700 Dry Cycle(same as 788)							
6040	M/700 Safety- Computer Assisted							
6045	M/3200 Frame							
6050	M/3200 Slam Test							
6055	M/1100 Carrier Release Test							
6060	M/870 C.T. Rib Vibration Test							
6065	M/1100 Magazine Cap Test							
6070	M/401S Seismic Gun							

C.J. Sweet

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DRY CYCLE

6010	Common Dry Cycle Simulators							
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6015	M/XPT00 Headspace Advance							
6020	M/XPT00 Safe on-off							
6025	M/788 Safety							
6030	M/700 Extractor Impact							
6035	M/700 Dry Cycle(same as 788)							
6040	M/700 Safety- Computer Assisted							
6045	M/3200 Frame							
6050	M/3200 Slam Test							
6055	M/1100 Carrier Release Test							
6060	M/870 C.T. Rib Vibration Test							
6065	M/1100 Magazine Cap Test							
6070	M/40TS Seismic Gun							

C.J. Sweet

Dept. 98 Operations

(0000-0999)

MEETINGS

(0000-0099)

0010 Safety Meetings
0020 Reading of Plant Staff Notes
0030 New Initiatives Meetings
0030 Scheduling Review Meetings

HOUSEKEEPING

(0100-0199)

0110 Weekly Clean-up
0120 Shooting Butts - turn, rake and wet down
0130 Water Shot Catchers - Daily Inspect
0140 Water Shot Catchers - Clean out shotgun wads

INSPECTION

(0200-0299)

0210 Emergency Alarm System Test
0220 Electrical cord inspect
0230 Latter inspection
0240 Shooting butt inspection
0250 Safety & Housekeeping audits
0260 Fire extinguisher inspection

PHOTO LAB OPERATIONS

(1000-1999)

STILL PHOTOS

(1000-1099)

1010 Slide presentations
1020 Documentation of Test Procedure
1030 Court case
1040 Gun components
1050 Gun failures
1060 Packing photos
1070 Guns as received
1080 Personnel photographs

HIGH SPEED PHOTOGRAPHY

(1100-1199)

1110 High speed movie plotting test

VIDEO TAPE

(1200-1299)

1210 Court case work
1220 Training films
1230 Informational films

PLANT ASSISTANCE

(1300-1399)

1310 Remington Action
1320 Retirement Photos
1330 Injury Documentation
1340 Museum Support
1350 Marketing Assistance (Public Relations; i.e. writers' requests)
1360 Industrial Engineerins (New Process)
1370 Plant Engineering Assistance

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Strength Test																		
2	Bolt lug shear test																		
3	Proof - std. test																		
4	Chamber pressure test																		
5	Excessive headspace test																		
6	Min. headspace test																		
7	Obstructed muzzle test																		
8	Stock strength test																		
9	Defective ammo test																		
10	Pierced primer test																		
11	Expanded primer test																		
12	Standard live fire test																		
13	Field cycle test																		
14	Emergency position live fire test																		
15	Live ammunition test																		
16	Ejection test - live ammo																		
17	Unloading test - live ammo																		
18	Bolt opening tests																		
19	Bolt stop release tests																		
20	Malfunction test for high speed																		
21	Magazine capacity test																		
22	Cock and dry fire																		
23	Follow down tests																		
24	Safety operation test																		
25	Follow-up test																		
26	Safety mechanism function test																		
27	Interchangeability test																		
28	Reloadability test																		
29	Scope ejecting test																		
30	Loose stock test																		
31	Loose barrel test																		
	Accuracy Centerfire Rifles																		
	Accuracy Slug Barrels																		

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Max. - Min. Sight Adjustment																		
2	Stability of Center of Impact																		
3	Pattern Density and Point of Impact																		
4	Headspace - Proof - Headspace																		
5	Firing Pin Indent																		
6	Trigger Pull																		
7	Weight and Length																		
8	Stock Dimensions																		
9	Center of Gravity																		
10	Safe On-Off Forces																		
11	Bolt-Open Force - Locked - Dry Fired																		
12	Magazine Spring Force (Shotguns only)																		
13	Bore and Choke																		
14	Chamber Measurements (Chamber Cast)																		
15	Firing Pin Protrusion																		
16	Firing Pin Marking																		
17	Sear Lift Measurement (Centerfire)																		
18	Additional Measurements Required																		
19	Safety Check																		
20	Disconnector Check																		
21	Magnaflux Check																		
22	Proof Check																		
23	Dummy Round Check																		
24	Live Ammo Unload Check																		
25	Follow Down Check																		
26	Bolt Stop Release Check																		
27	Bolt Velocity (Continuous, Discrete)																		
28	Piston Velocity																		
29	Closing Velocity																		
30	Strain Gage Analysis																		
31	Orifice Work-up																		
32	Shoulder Force																		
33	Acceleration																		

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Vibration																		
2	Gun Travel																		
3	Lock Time																		
4	Cycle Time																		
5	Destructive Pressure Measurements																		
6	Stress Coat																		
7	Force Measurement (Plotting)																		
8	Shooting Jack Calibration																		
9	Develop Specialized Test & Equipment																		
10	M/XP-100 Headspace Advance																		
11	M/XP-100 Safe ON-OFF																		
12	M/788 Dry Cycle (Bolt & Firing Pin & Fire Control)																		
13	M/788 Safety																		
14	M/7400 Dry Cycle																		
15	M/7600 Extractor Impact																		
16	M/7600 Dry Cycle (same as 788)																		
17	M/7600 Safety - Computer Assisted																		
18	All Model Over & Under Machine																		
19	M/3200 Frame																		
20	M/3200 Slam Shut Test																		
21	M/1100 Carrier Release Button																		
22	M/870 Competition Trap																		
23	Trigger Dry Cycle Impact Test (M/870, 1110, 7400, 7600)																		
24	Safety Dry Cycle (M/1100, 870, 7400, 7600)																		
25	Common Dry Cycle Machine for M/870, 1100, 7400, 7600																		
26	Test: Firing Pins																		
27	Fire Controls																		
28	Action Bars																		
29	Breach Bolts																		

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Pneumatic Drop Machine																		
2	Magazine Cap Dry Cycle																		
3	Mechanical Trap																		
4	Morris Saddle Gun																		
5	Jack Endurance - Inside																		
6	Jack Endurance - Outside																		
7	Field Cycle Test - Shotgun -																		
8	Shoulder Shooting																		
9	Field Cycle Test - Rifle - Shoulder Shooting																		
10	Shotgun Function Test - Shoulder for Scores																		
11	Wet & Dry Tests																		
12	Foul weather tests																		
13	Weathering tests																		
14	Col d ammo test																		
15	Cold firearms test																		
16	Stock finish test																		
17	Waterproof test																		
18	Salt water corrosion test																		
19	Solvent Resistance Test																		
20	Gun furniture test																		
21	Corrosion test																		
22	Crud test																		
23	Mud and lard test																		
24	Sand box test																		
25	Excess lubrication test																		
26	No lubrication test																		
27	Oiled case test																		
28	Dust test																		
29	Machining chips test																		
30	Dirty chamber test																		
31	Ejection port crud test																		

1	Jet-off tests		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	Takedown screw shock test																			
3	Drop test																			
4	Impact test																			
5	Slam test																			
6	Safety mechanism shock test																			
7	Muzzle Velocity Test																			
8	Pressure Test																			
9	Penetration test																			
10	Shot counting test																			
11	Gas cylinder pressure																			
12	Competitive amm. test																			
13	Ammunition reloadability																			
14	SAAMI test																			
15	Bullet recovery test																			
16	Hot ammunition test																			
17	Hand loading																			
18	Takedown inspection																			
19	Chamber finish test																			
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				