Test Lab Work Request Form

Date Submitted: 10 March, 2000	Tracking #: TLW 0010AI
Project #: 241095	Engineer: J.R.SNEDEKER

Test Objective:

TLW0010AI - Cold Function Test: GUN # B-21 SERIAL # 71001322

This test evaluates the effect of extreme low temperatures on the functioning performance of the firearms. Shoot the firearm from inside the environmental test cabinet in the long range.

Test Description:

Method:

- Condition the firearm and 100 rounds of ammunition of climatic chamber for at least 6 hours at a temperature of -20 degrees F.
- Test each firearm within the chamber as follows:
- Fire 20 rounds of ammunition. Wait 2 hours and repeat until all 100 rounds have been fired.
- Do not perform maintenance during the 100 round cycle.
- Cycle the safety from fire to safe every 5 rounds.
- After 100 rounds have been fired through the firearm, remove the firearm from the conditioning chamber, disassemble, thoroughly inspect, clean and lubricate.

Data Required:

Resource Usage:

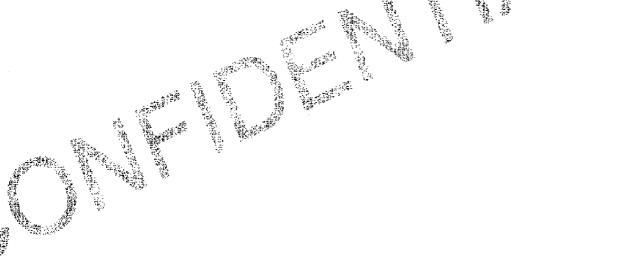
- Record temperature and exposure times. -20 Degree F. / 15 Hours
- Record all malfunctions. FIRST ROUND DID NOT FIRE (LIGHT INDENT)
- Record damage noted during inspection. (EVERYTHING OK)
- Record all necessary maintenance actions performed. (See report TLW 0010AI)

Manpower Requirements - Facility Requirements -	Formal Report: Data Only: X REQUESTED Completion Date:
Required Materials/Parts/Equipment (inc Test Parts Availability Date:	lude quantities):
Start Date:9/14/00 Completion Date:9/14/00 Report Date:	Test Assigned To: STEVE WADE & JEFF WADE

Test Results Required:

MM	10	REMINGTON 30.06 180 GRAIN R30064	LOT #	ŧ	C03 SC1326
		MALFUNCTIONS			MALFUNCTIONS
1	1	MISFIRE	51	1	
2	2		52	2	
3	3		53	3	
4	4		54	4	
5	5	CYCLED SAFETY	55	5	CYCLED SAFETY
6	6		56	6	
7	7		57	7	
8	8		58	8	
9	9		59	9	
		CYCLED SAFETY			FIRED 20 ROUNDS AT -20 DEGREE F.
11	1		61	1	
12			62	2	. 4
13	3		63	3	
14	4	CYCLED CAEETY	64 65	4	CVCI ED CAECTY
15 16		CYCLED SAFETY	65 66		CYCLED SAFETY
10 17	6 7		67	6 7	
18	8		68	ν Ω	
19	9		69	٥	
	_	FIRED 20 ROUNDS AT -20 DEGREE F.	70	a A fr	CWOLED SAFETY
	1	TINED 20 NOONDO AT -20 DEONGET.		1	CAPACITY OF THE PROPERTY OF TH
22		\$. **	72	2	
23		BOLT WOULD NOT CLOSE	73	7	
24	_	BOET WOOLD NOT GEOGE	74	4	(Q4. . m²)
25		CYCLED SAFETY	75	୍ର 5	CYCLED SAFETY
26	6		76	6	
27			77	7	
28	8		78	8	
29	9		79	9	
	10	CYCLED SAFETY	80	10	FIRED 20 ROUNDS AT -20 DEGREE F.
31	1		8 1	1	
32	2		82	2	
33	3		83	3	
34	4		84	4	
35	5	CYCLED SAFETY	85	5	CYCLED SAFETY
96	6		86	6	
37	7		87	7	
38	8		88	8	
39			89		BOLT WOULD NOT CLOSE (ROTATE RD CLOSED)
		FIRED 20 ROUNDS AT -20 DEGREE F.			CYCLED SAFETY
41	1		91	1	
42			92	2	
43			93	3	
44	4		94	4	0/0/55 0.555
		CYCLED SAFETY	95		CYCLED SAFETY
46	6		96	6	
47			97	7	
48			98	8	
49		CYCLED SAFETY	99	9	FIRED 20 ROUNDS AT -20 DEGREE F.
		ATTACH CALLY		20	

- # 1 PLACE GUN B 21 AND 100 ROUND OF AMMO IN FREEZER FOR 15 HOURS AT -20 DEGREE F.
- # 2 TOOK GUN B 21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD
- # 3 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 4 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 5 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 6 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 7 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 8 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 9 PUT GUN B-21 BACK IN FREEZER FOR 2 HOURS.
- # 10 AFTER 2 HOURS TOOK GUN B-21 AND 20 ROUNDS OF AMMO OUT OF FREEZER TO BLOW-UP ROOM AND SHOT 20 ROUNDS WITH LANYARD.
- # 11 CLEANED AND INSPECTED GUN. (OK)



Not In order!

first 20 Cold fired rounds indents Misfired Round = ,012 ,021 .010 ,019 .020 ,022 ,022 ,016 .017 .020 ,017 ,016 .018 .021 ,021 ,022 ,022 ,035 ,021

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