

## Test Lab Work Request Form

<b>Date Submitted:</b> 10 March, 2000	<b>Tracking #:</b> TLW 0010AI
<b>Project #:</b> 241095	<b>Engineer:</b> J.R.SNEDEKER
<b>Test Objective:</b> 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.	
<b>Test Description:</b> <u>Method:</u> <ul style="list-style-type: none"> <li>Condition the firearm and 100 rounds of ammunition of climatic chamber for at least 6 hours at a temperature of -20 degrees F.</li> <li>Test each firearm within the chamber as follows:</li> <li>Fire 20 rounds of ammunition. Wait 2 hours and repeat until all 100 rounds have been fired.</li> <li>Do not perform maintenance during the 100 round cycle.</li> <li>Cycle the safety from fire to safe every 5 rounds.</li> <li>After 100 rounds have been fired through the firearm, remove the firearm from the conditioning chamber, disassemble, thoroughly inspect, clean and lubricate.</li> </ul> <u>Data Required:</u> <ul style="list-style-type: none"> <li>Record temperature and exposure times. -20 Degree F. / 15 Hours</li> <li>Record all malfunctions. <b>FIRST ROUND DID NOT FIRE ( LIGHT INDENT )</b></li> <li>Record damage noted during inspection. ( <b>EVERYTHING OK</b> )</li> <li>Record all necessary maintenance actions performed. ( <b>See report TLW 0010AI</b> )</li> </ul>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b>  <b>Facility Requirements -</b>	<b>Test Results Required:</b> <b>Formal Report:</b> <b>Data Only: X</b> <b>REQUESTED Completion Date:</b>
<b>Required Materials/Parts/Equipment (include quantities):</b>	
<b>Test Parts Availability Date:</b>	
<b>Start Date:</b> 9/14/00 <b>Completion Date:</b> 9/14/00 <b>Report Date:</b>	<b>Test Assigned To:</b> STEVE WADE & JEFF WADE

ET18845

AMMO REMINGTON 30.06 180 GRAIN R30064

LOT # 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
10	10 CYCLED SAFETY	60	10 FIRED 20 ROUNDS AT -20 DEGREE F.
11	1	61	1
12	2	62	2
13	3	63	3
14	4	64	4
15	5 CYCLED SAFETY	65	5 CYCLED SAFETY
16	6	66	6
17	7	67	7
18	8	68	8
19	9	69	9
20	10 FIRED 20 ROUNDS AT -20 DEGREE F.	70	10 CYCLED SAFETY
21	1	71	1
22	2	72	2
23	3 BOLT WOULD NOT CLOSE	73	3
24	4	74	4
25	5 CYCLED SAFETY	75	5 CYCLED SAFETY
26	6	76	6
27	7	77	7
28	8	78	8
29	9	79	9
30	10 CYCLED SAFETY	80	10 FIRED 20 ROUNDS AT -20 DEGREE F.
31	1	81	1
32	2	82	2
33	3	83	3
34	4	84	4
35	5 CYCLED SAFETY	85	5 CYCLED SAFETY
36	6	86	6
37	7	87	7
38	8	88	8
39	9	89	9 BOLT WOULD NOT CLOSE (ROTATE RD CLOSED)
40	10 FIRED 20 ROUNDS AT -20 DEGREE F.	90	10 CYCLED SAFETY
41	1	91	1
42	2	92	2
43	3	93	3
44	4	94	4
45	5 CYCLED SAFETY	95	5 CYCLED SAFETY
46	6	96	6
47	7	97	7
48	8	98	8
49	9	99	9
50	10 CYCLED SAFETY	100	10 FIRED 20 ROUNDS AT -20 DEGREE F.

ET18846

PROJECT # 241095  
AMMO REMINGTON 30.06  
180 GRAIN R30064

COLD FUNCTION TEST  
GUN # B21  
SERIAL # 71001322

TRACKING # TLW 0010AI

- # 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 )

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Not In Order!

first 20 Cold fired rounds indents      Missed Round = .012

.021 .016 .019 .020 .022 .022 .016 .017 .020 .017

.016 .018 .021 .021 .021 .022 .022 .015 .021

first 20 hot fired rounds indents

.019 .022 .022 .022 .022 .022 .023 .023 .023 .022

.022 .021 .022 .020 .022 .021 .022 .020 .022 .022

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