Test Lab Work Request Form

Date Submitted: 10 March, 2000	Tracking #: TLW 0010AJ
Project #: 241095	Engineer: J.R.SNEDEKER
Test Objective: TLW0010AJ – Thermal Cycle Test: GUN	N # B-21 SERIAL # 71001322
 TLW0010AJ - Thermal Cycle Test: GUN This test evaluates the effects contraction differentials of metallic The sample rifle will be alternately cy least 3 complete cycles, brought back for 200 rounds to evaluate both funct Test Description: <u>Method:</u> Shoot sample rifle in test jack to determ Do not clean rifle Place rifle in freezer that is pre-set to -44 At completion of 24+ hours, remove a least 24 hours. At completion of at least 24 hours, remove Repeat this cycle for a minimum of three 	s of large temperature changes due to expansion and and non-metallic components used in the Model 710 ycled between a temperature of 120°F. and -40°F. for a k to ambient temperature and test fired in the test jack ion and safety related characteristics. ine rifles malfunction characteristics and rate 0°F and leave undisturbed for at least 24 hours. rifle and immediately place in the pre-heated test chamber at a san be attained by the equipment. Leave rifle undisturbed for a pove fiffe and immediately place in the freezer. e complete hot and three complete cold cycles. e heat cycle) remove the rifle from the chamber and allow cooling
• Return the rifle to the test jack used malfunction types and rates.	at the start of the test and fire another 100 rounds recording
	examine the rifle for any obvious signs that the thermal cycling tion directed at the metallic and non-metallic interfaces. Look for preep.
<u>Data Required:</u>Rifle serial number 71001322	
• Cycle time for each test condition (See	
^	cycle. Use the chart feature on the freezer and a temperature
recording device for the chamber. (See	report TLW 0010AJ)
 Malfunctions type and rates both pre- ar 	nd post thermal cycles. (NO MALFUNCTIONS)

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Resource Usage: Manpower Requirements - Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date:
Required Materials/Parts/Equipment (Test Parts Availability Date: Start Date: 9/15/00 Completion Date: 9/22/00 Report Date:	(include quantities): Test Assigned To: STEVE WADE & JEI WADE

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PROJECT # 241095
AMMO REMINGTON 30.06
180 GRAIN R30064

THERMAL CYCLE TEST GUN # B 21 SERIAL # 71001322

STEP # 1 SHOT GUN 100 ROUNDS DOING THE HOT TEST. (NO MALFUCTIONS)

STEP # 2 PLACED GUN IN FREEZER WITH BOLT CLOSED AT -40'F AND LEFT UNDISTURBED FOR 24 HOURS.

STEP #3 TOOK GUN OUT OF FREEZER AND PUT IN THE PRE-HEATED TEST CHAMBER WITH BOLT CLOSED AT 120'F AND LEFT GUN UNDISTURBED FOR 41 HOURS. STEP #4 TOOK GUN OUT OF PRE-HEATED TEST CHAMBER AND PUT IN THE FREEZER

WITH BOLT CLOSED AT -40'F AND LEFT UNDISTURBED FOR 24 HOURS. STEP # 5 TOOK GUN OUT OF FREEZER AND PUT IN THE PRE-HEATED TEST CHAMBER

- WITH BOLT CLOSED AT 120'F AND LEFT GUN UNDISTURBED FOR 25 HOURS. STEP # 6 TOOK GUN OUT OF PRE-HEATED TEST CHAMBER AND PUT IN THE FREEZER
- WITH BOLT CLOSED AT -40'F AND LEFT UNDISTURBED FOR 25 HOURS. STEP # 7 TOOK GUN OUT OF FREEZER AND PUT IN THE PRE-HEATED TEST CHAMBER
- WITH BOLT CLOSED AT 120'F AND LEFT GUN UNDISTURBED FOR 23 HOURS. STEP # 8 AT THE COMPLETION OF THE FINAL CYCLE (THE HEAT CYCLE) REMOVED THE

GUN FROM THE CHAMBER AND ALLOWED COOLING TO AMBIENT TEMPER-ATURE (A MINIMUM OF SIX HOURS).

STEP # 9 TOOK GUN TO TEST JACK USED AT START OF TEST AND FIRED 100 ROUNDS OF AMMO (NO MALFUNCTION)

STEP # 10 REMOVED THE ACTION FROM STOCK AND INSPECTED (EVERYTHING OK)

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