

## Test Lab Work Request Form

Date Submitted: 19 May, 1999	Tracking #: TLW 9142E
Project #: 241095	Engineer: SNEDEKER, J.R.
Test Objective: COMPLETE BASIC MEASUREMENTS ON M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.	
Test Description:  1. Headspace 2. Trigger Pull Force 3. Firing Pin Indent	
Resource Usage: Manpower Requirements - 1 technician Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 28 May '99
Required Materials/Parts/Equipment (include quantities): Headspace gauges for .30-06 caliber, Copper crusher holder, copper crushers, Dial Indicator w/ "needle" point Force gauge.	
Test Parts Availability Date: 18 May '99	
Start Date: Completion Date: Report Date:	Test Assigned To:

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ET27696

# Test Lab Work Request Form

<b>Date Submitted:</b> 19 May, 1999	<b>Tracking #:</b> TLW 9142J
<b>Project #:</b> 241095	<b>Engineer:</b> SNEDEKER, J.R.
<b>Test Objective:</b> <b>COMPLETE ULTIMATE STRENGTH / INTENTIONAL ABUSE TESTING ON EACH OF 3 OF THE M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.</b>	
<b>Test Description:</b> <ol style="list-style-type: none"> <li>1. Perform standard procedure, ultimate strength / intentional abuse testing on 3 rifles selected at random from the sample of m/710 EET sample rifles submitted for evaluation on 18 May '99.</li> <li>2. One rifle will be subjected to a ultra-high pressure hand-loaded round without the bore being obstructed. A second rifle will be subjected to an ultra-high pressure hand-loaded round with the bore obstructed with 7 .30-06 bullets forced into the bore to a point just ahead of the chamber. The third rifle will be fired using a standard pressure round but with the firing pin filed at the tip to produce a "chiseled" edge. The intent here being to pierce the primer and dump gas into the action.</li> <li>3. Use the standard forms for recording the results. In addition to the test results, and as a minimum, each data sheet should list the tester's initials, the date, the beginning and ending round level covered by that data sheet. Also, the "TLW..." number, the serial number of the firearm and the sample number and the ammunition type used when the malfunction occurred should be recorded on each data sheet.</li> <li>4. All testing should be done in the "blow-up" room using a lanyard, high speed video system, and photographs taken to document damage, if any.</li> <li>5. Work up hand-loads to approximately 90,000-95,000 p.s.i. . Calculate load for approximately 120,000 p.s.i. . For each of the two test rifles, load 1 only, ultra-high pressure round at a time. Round must be kept in a locked red ammunition box until time to be loaded into the test rifle. <b>USE EXTREME CAUTION.</b></li> </ol>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b> <b>1 technician; one ammunition technician</b> <b>Facility Requirements - blow-up room,</b> <b>hand-loaded ammunition, high speed video</b> <b>system.</b>	<b>Test Results Required:</b> <b>Formal Report:</b> <b>Data Only: X</b> <b>REQUESTED Completion Date:</b> <b>28 May '99</b>
<b>Required Materials/Parts/Equipment (include quantities):</b>	
<b>Test Parts Availability Date:</b> 18 May '99	
<b>Start Date:</b> <b>Completion Date:</b> <b>Report Date:</b>	<b>Test Assigned To:</b>

ET27697

# Test Lab Work Request Form

<b>Date Submitted:</b> 19 May, 1999	<b>Tracking #:</b> TLW 9142G
<b>Project #:</b> 241095	<b>Engineer:</b> SNEDEKER, J.R.
<b>Test Objective:</b> <b>COMPLETE 100 STANDARD PROOF TEST ON EACH OF THE M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.</b>	
<b>Test Description:</b> <ol style="list-style-type: none"> <li>1. Measure and record head-space on each sample rifle before the start of the 100 round proof test and then before and after <u>each</u> of the first ten (10), .30-06 Cal. Proof round is fired in each of the sample rifles. Examine each of the sample rifles after each of the first 10 proof rounds for damage per standard proof round procedure. *(see note below)</li> <li>2. Measure and record head-space on each sample rifle before and after each tenth (10<sup>th</sup>) proof round after the first ten rounds are completed, i.e., at round 20, 30, 40, &amp; 50 rounds. Examine each of the sample rifles after each of the 10 proof rounds for damage per <del>33</del> standard proof round procedure. *(see note below)</li> <li>3. Finally, measure and record head-space on each sample rifle before and after the completion of the one hundredth (100<sup>th</sup>) round. Examine each of the sample rifles after completion of the 100<sup>th</sup> proof round for damage per standard proof round procedure. *(see note below)</li> <li>4. Use a lanyard for all proof rounds and use extreme caution, comply with all safety procedures used when proofing firearms.</li> </ol> <p><b>Note:</b> <u>Procedure for examination after firing a proof round.</u>  <i>Examine rifle for any signs of damage especially in the chamber area, on the bolt lugs, bolt face, extractor, or ejector. Examine locking lug area in the barrel/receiver area for any indication of cracking or swelling of material. Note anything of an unusual nature. Check the firing pins for damage to the tip or for any indication of set-back due to high pressure. Look for any indication of swelling in the chamber area of the barrel.</i></p>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b> <b>1 technician</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>28 May '99</b>
<b>Required Materials/Parts/Equipment (include quantities):</b> Graduated Head-space gauges for .30-06 caliber, 800 proof rounds	
<b>Test Parts Availability Date:</b> 18 May '99	
<b>Start Date:</b> <b>Completion Date:</b> <b>Report Date:</b>	<b>Test Assigned To:</b>

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# Test Lab Work Request Form

<b>Date Submitted:</b> 19 May, 1999	<b>Tracking #:</b> TLW 9142H
<b>Project #:</b> 241095	<b>Engineer:</b> SNEDEKER, J.R.
<b>Test Objective:</b> <b>COMPLETE 500 ROUND, STANDARD AMMUNITION, TEST ON EACH OF THE M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.</b>	
<b>Test Description:</b> <ol style="list-style-type: none"> <li>1. Perform standard procedure, Function &amp; Casualty Testing on all submitted samples of M/710 EET rifles. Examine each rifle after each 100 rounds using procedure listed below.</li> <li>2. For each round fired note whether any malfunctions occurred, record the round level of occurrence, the round level out of the box, the type of malfunction.</li> <li>3. If available, a variety of .30-06 Remington ammunition of different bullet types and weights should be used to evaluate the potential for feeding problems.</li> <li>4. As a minimum, each data sheet should list the tester's initials, the date, the beginning and ending round level covered by that data sheet, the "TLW..." number, the serial number of the firearm and the sample number and the ammunition type used when the malfunction occurred.</li> </ol> <p>Use the "belly-protector with the lid closed for every shot fired and use an "across-the-trigger" lanyard for all rounds. Use extreme caution, comply with all safety procedures. The use of leather gloves is recommended due to the sharp edges present on the "prototype" stock.</p> <p><u>Note:</u> Procedure for examination after firing each 100 rounds of standard .30-06 caliber ammunition.</p> <p><i>Examine rifle for any signs of damage especially in the chamber area, on the bolt lugs, bolt face, extractor, or ejector. Examine locking lug area in the barrel/receiver area for any indication of cracking or swelling of material. Note anything of an unusual nature. Examine other areas of the firearm such as the magazine, magazine follower, bolt, bolt handle, etc., for any indications of unusual wear, cracking or other damage. Record all observations as to round level at time of observation and description of damage as well as location.</i></p>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b> 1 technician <b>Facility Requirements -</b>	<b>Test Results Required:</b> <b>Formal Report:</b> <b>Data Only: X</b> <b>REQUESTED Completion Date:</b> 28 May '99
<b>Required Materials/Parts/Equipment (include quantities):</b> 4000 rounds of standard .30-06 ammunition, variety of bullet types and weights should be used	
<b>Test Parts Availability Date:</b> 18 May '99	
<b>Start Date:</b> <b>Completion Date:</b> <b>Report Date:</b>	<b>Test Assigned To:</b>

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ET27699

## Test Lab Work Request Form

<b>Date Submitted:</b> 19 May, 1999	<b>Tracking #:</b> TLW 9142I
<b>Project #:</b> 241095	<b>Engineer:</b> SNEDEKER, J.R.
<b>Test Objective:</b> <b>COMPLETE STANDARD S.A.A.M.I. DROP, JAR-OFF AND ROTATION TESTING ON EACH OF THE M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.</b>	
<b>Test Description:</b> <ol style="list-style-type: none"> <li>1. Perform standard procedure, S.A.A.M.I. Drop, Jar-Off And Rotation Testing on all submitted samples of M/710 EET rifles. Examine each rifle after each drop using standard S.A.A.M.I. procedures. Load chamber and close bolt over a fresh primed case for each drop, jar-off or rotation orientation. "Fire" the primed case after each drop to make sure the round did not fire when dropped.</li> <li>2. Use the standard forms for S.A.A.M.I. Drop, Jar-Off And Rotation Testing procedure for recording the results. In addition to the test results, and as a minimum, each data sheet should list the tester's initials, the date, the beginning and ending round level covered by that data sheet. Also, the "TLW..." number, the serial number of the firearm and the sample number and the ammunition type used when the malfunction occurred should be recorded on each data sheet.</li> <li>3. Due to the construction of the EET samples, the drop procedure may require modification. Before proceeding with this test, discussion should occur between the engineer, technician and testing manager to determine the proper methods to be used.</li> </ol>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b> <b>1 technician</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>28 May '99</b>
<b>Required Materials/Parts/Equipment (include quantities):</b> Approximately 120 rounds of standard .30-06 ammunition, with bullets and powder removed to make primed cases. 85 durameter rubber mat.	
<b>Test Parts Availability Date:</b> 18 May '99	
<b>Start Date:</b> <b>Completion Date:</b> <b>Report Date:</b>	<b>Test Assigned To:</b>

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## Test Lab Work Request Form

<b>Date Submitted:</b> 19 May, 1999	<b>Tracking #:</b> TLW 9142F
<b>Project #:</b> 241095	<b>Engineer:</b> SNEDEKER, J.R.
<b>Test Objective:</b> <b>COMPLETE STANDARD PROOFTEST ON M/710 EET SAMPLE RIFLES</b> <b>SUBMITTED FOR EVALUATION ON 18 MAY '99.</b>	
<b>Test Description:</b> <ol style="list-style-type: none"> <li>1. Measure and record head-space both before and after one (1) .30-06 Cal. Proof round is fired in sample rifles.</li> <li>2. Use lanyard and use extreme caution, comply with all safety procedures used when proofing firearms.</li> <li>3. After firing proof round examine rifle for any signs of damage especially in the chamber area, on the bolt lugs, bolt face, extractor, or ejector. Examine locking lug area in the barrel/receiver area for any indication of cracking or swelling of material. Note anything of an unusual nature. Check the firing pins for damage to the tip or for any indication of set-back due to high pressure.</li> <li>4. For each of the rifles that pass this proof test, imprint with proof stamp on the right side of the barrel at the chamber location.</li> </ol>	
<b>Resource Usage:</b> <b>Manpower Requirements -</b> <b>1 technician</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>28 May '99</b>
<b>Required Materials/Parts/Equipment (include quantities):</b> Graduated head-space gauges for .30-06 caliber, Proof stamp	
<b>Test Parts Availability Date:</b> 18 May '99	
<b>Start Date:</b> <b>Completion Date:</b> <b>Report Date:</b>	<b>Test Assigned To:</b>

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