- Repeat this cycle for a minimum of three complete hot and three complete cold cycles.

- At the completion of the final cycle (the heat cycle) remove the rifle from the chamber and allow cooling to ambient temperature – a minimum of six hours.

- Return the rifle to the test jack used at the start of the test and fire another 100 rounds recording malfunction types and rates.

- Remove the action from the stock and examine the rifle for any obvious signs that the thermal cycling has affected the parts with special attention directed at the metallic and non-metallic interfaces. Look for cracked parts and for signs of material creep.

Data Required:

- Rifle serial number

- Cycle time for each test condition

- Temperature records throughout each cycle. Use the chart feature on the freezer and a temperature-recording device for the chamber.

- Malfunctions type and rates both pre- and post thermal cycles.

- Observations made on cracks, creep or other noteworthy items.

ABUSIVE TESTING

IMPACT TESTING – :

TLW0630W - SAAMI Drop Test - (Do This Test on the Stainless Version, with rifles that have the correct stock configuration):

This test will simulate abusive dropping of the firearm from a distance of 48 inches onto a 1" thick 85 durometer (Shore A) rubber mat backed by concrete. Trigger Pull weight will be adjusted to minimum specification (4 lb.) The Trigger/Sear engagement will be set to the minimum specification (0.018"). Test will be performed according to SAAMI Technical Committee procedures. Magazine capacity will as well be according to SAAMI procedures. After each series of test, the primed case will be discharged to insure validity of test. This test will be performed on a sample of four firearms.

Method: