

TOP-3-2-045

Environmental and Ballistics Testing of Fire Arms

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Dayton T. Brown, Inc. has provided the DoD, federal, state, local law enforcement and private industry communities with 60 years of unparalleled professional expertise in engineering and testing. Our engineering team has worked with these communities to help them answer some of their toughest questions. DTB is excited to bring that same tradition of innovation, integrity, dependability, knowledge and experience in Environmental and Ballistics Testing of Fire Arms.

Typical Environmental and Reliability Testing

- Function Test
- Suppressor
- Trigger
- Transportation Vibration
- Rain/moisture
- Pressure Test
- Ballistics Performance
- Reliability and Durability
- Visual Signature Muzzle Flash
- Visual Signature Smoke Signature
- Abrasion Resistance
- Salt Fog
- Sand and Dust
- Cold & Hot Function

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Environmental and Reliability Testing of 7.62MM Caliber Compact Semi Auto Sniper System (CSASS)

Dayton T. Brown, Inc. will conduct Environmental and Reliability Testing subject to References (b), (c) and (d) specifications for the CSASS

3.5.2 – Dispersion

Function Test - If failure occurs with the function test repeat function test followed by firing 100 rounds

3.6.1 – Suppressor Dispersion

3.6.2 – Suppressor Impact Shift Distance

3.6.3 – Suppressor Impact Shift Repeatability

3.6.4 – Suppressor Dimensions

3.6.5.1 – Suppressor Interface, Hand Torque

3.6.5.2 – Suppressor Interface, Easy Attachment Method

3.7.21 – Trigger

3.9.1 – HTSC Features

3.9.2 – HTSC Drop Test – Hard Transport and Storage Case

3.9.3 – Transportation Vibration per MIL-STD-810E, Procedure I

3.9.4 – Rain/moisture of HTSC

3.9.5 – Pressure Test of HTSC

3.9.6 – Dimensions of HTSC

Initial Engineering, Setup and Safety Considerations

3.5.21 – Workmanship

4.7.1 – High Pressure Resistance

3.7.2 – Ballistics Performance – Done in conjunction with Dispersion test

3.7.10 – Safety Mechanism

3.7.11 – Bolt Position Safety

3.7.13 – Magazine Release

3.7.14 – Weight

3.7.16 – Length

3.7.17 – Barrel Length

3.7.18 – Stock Adjustment

3.7.20 – Firing Pin

3.7.22 – Ammunition Compatibility

3.7.23 – Chamber Dimensions

3.7.24 – Headspace Dimensions

3.7.25 – Magazine

3.7.26 – Mounting Interface

3.7.27 – Bipod

3.8 – Day optical sight requirements

3.10 – Soft Carry Case

3.11 – Deployment kit

3.12 – Drag bag

3.13 – Magazine carriers

3.14 – Cleaning equipment

3.15 – Sling

3.16 – Anti-cant devise

3.17 – Pistol grip

3.18 – Mini red dot mount

4.5.16 – Reliability and Durability – 10,000 Rounds per Weapon with Cooling after every Magazine

4.5.16 – Reliability and Durability – 10,000 Rounds per Weapon with Cooling after every Third Magazine (Optional)

4.5.3.1 – Visual Signature Muzzle Flash

4.5.3.2 – Visual Signature Smoke Signature

4.5.5 – Abrasion Resistance

4.5.6 – Salt Fog

4.5.7 – Sand and Dust

4.5.8 – Water Spray (Rain) Test

4.5.9 – Icing

4.5.10.1 – Wet Mud

4.5.10.2 – Dried Mud

4.5.11.1 – Cold Function

4.5.11.2 – Hot Function

4.5.12 – Chemical Resistance

4.5.13 – NBC Contamination

4.5.14 – Fungus

4.5.18.1 – NBC MOPP IV

4.5.18.2 – Extreme Cold

4.5.19 – Maintainability

4.5.22 – Cookoff Test

4.7.3 – Drop Test

4.7.4 – Barrel Life

4.7.5 – Parts Interchange

4.7.6 – Blank Firing Adapter

4.7.7 – BFA Life

4.7.8 – BFA Safety

4.7.9 – Rifle Action

4.7.12 – Recoil

4.7.13 – Magazine Release

4.7.14 – Weight

4.7.15 – Special Tools

4.7.16 – Length

4.7.17 – Barrel Length

4.7.18 – Stock Adjustment

4.7.19 – Materials and Finishes

4.7.21 – Trigger

4.7.28 – Iron sights Back-up Iron Sights

4.7.32 – Multiple Position Gas Block

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ENGINEERING & TEST DIVISION



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PHONE: (631) 589-6300
FAX: (631) 589-3648