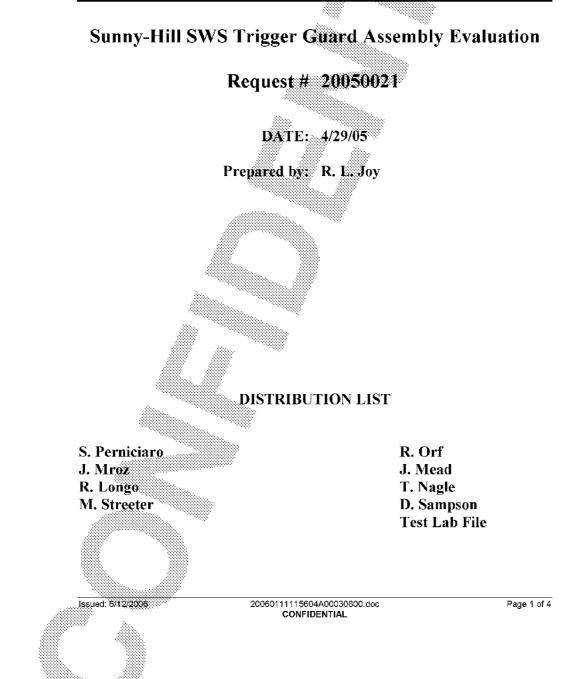
## REMINGTON ARMS COMPANY INC. ILION, NY PLANT SITE

TECHNICAL DIVISION TEST & MEASUREMENTS LAB

# **TEST REPORT**

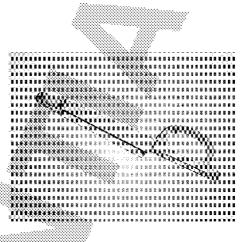


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#### **INTRODUCTION:**

Sunny-Hill Enterprises of Malone, WI, offers a line of trigger guard assemblies and other gun accessories for Remington and other gun maker's products. The company produces a trigger guard assembly that can be used on the Remington SWS. The Sunny-Hill trigger guard is all steel and can be purchased at a price attractive to Remington.

The Test Lab received a request to evaluate a sample of the Sunny-Hill trigger guard assemblies.



#### SCOPE:

The Test Lab was provided with three samples of standard trigger guards used for the Model 700 SWS rifle as a control for the test. Three Model 514 trigger guard samples were provided from Sunny-Hill.

All trigger guards were subjected to ASTM scratch-and-lift testing, followed by 24 hour thermal exposure at -20 degrees and 150 degrees F. Next, solvent resistance testing was performed with the following gun cleaning and lubrication products:

- WD-40
- Rem Oil
- Remington's Brite Bore
- Birchwood Casey Bore Scrubber
- Hoppe's #9

Each trigger guard was assembled to an SWS, 7.62mm rifle and subjected to standard S.A.A.M.I. drop testing from the 4-foot height.

Lastly, the test trigger guards were turned over to the Metallurgical Lab for strength testing of the material and metallurgical analysis.

### **RESULTS:**

ASTM Scratch-and-Liff: All samples passed this test.

Thermal Exposure All samples passed this test.

Solvent Resistance / Adhesion: All samples passed this test.

<u>Drop Testing</u> None of the samples was damaged in drop testing. One of the control trigger guard assembly's floor plate opened. All of the Sunny-Hill floor plates remained latched during all drops

Strength & Metallurgy: Results pending

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## **CONCLUSIONS:**

The Sunny-Hill 514 Trigger Guard assembly has shown in this test-set to be a suitable substitute or replacement for Remington's standard SWS trigger guard assembly.

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DOD	TEST SUM	MADV
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Drop Order	Jar Off Test Pircenn Position							
1	Barrel Verticle, Muzzle Up	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq \leq$	
2	Barrel Verticle, Muzzle Down	$\geq$	$\geq \leq$	$\geq$	$\geq$	$\geq$	$\geq \leq$	
3	Barrel Horizontal, Bottom Down	$\geq$	$\geq$	$\geq \leq$	$\geq$	$\geq$	$\geq \leq$	
4	Barrel Horizontal, Bottom Up		$\geq$	$\geq$	$\geq$	$\geq$	$\geq \leq$	
5	Barrel Horizontal, Left Side Up	$\geq$	$\geq$		$\geq$	$\geq$	$\geq \leq$	
6	Barrel Horizontal, Right Side Up	$\geq$	$\geq$	$\geq$		$\geq$	$\geq \leq$	
Drop Order	Drop Test Firearm Position @ 48" Drop	NV-1	NV-2	N¥-3	Xi	REM-2	REM-3	
7	Barrel Verticle, Muzzle Up	Ok	Ok 🎆	Ok	Ok 🖉	🖉 Ok 🏑	QK	
8	Barrel Verticle, Muzzle Down	Ok	OK	So Ok	OK S	Ok 🖉	OK	3355.
9	Barrel Horizontal, Bottom Down	Ok	Ok	Ok	Øk	Ok	1	
10	Barrel Horizontal, Bottom Up	Ok	Ok	Ok	OK	Ok	Ok 🎆	
11	Barrel Horizontal, Left Side Up	Ok	Ok	Ok	Ök	Øk	<u> </u>	
12	Barrel Horizontal, Right Side Up	Ok	Ok	Ok	Ok	Øk	OK	
Drop Order	Rotational Test							
13	Left Side Up	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq \leq$	
14	Right Side Up	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	

REM-3 1- Floor plate opened.

Note: A Model 700 SWS, .308 caliber rifle was used for this test. No primer shells were used because the test was only for evaluation of the trigger guard.

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