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1 July 1964

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MEMORANDUM FOR THE RECORD

SUBJECT: Test of Open Sight Hood for 7.62mm Belgium (FAL) Rifle

A) Memo for Red. dated 25 May 1964, Subject: PAL-Silencers/Sights, from C/WH/SA/WOR/PM

Memo for Rcd. dated 10 June 1964, Subject: Tests of Modified Sights for 7.62 Belgium (FAL) Rifle

- On 15 and 16 June 1964, the undersigned and Mr. Bob Ricker, TSD/SDB went to Isolation to test an open sight hood for the 7.62mm Belgium (FAL) Rifle developed in answer to Ref. A. The Modified Williams peep sight developed previously in answer to Ref. A and reported on in Ref. B. proved unsatisfactory to the requester. The snap-on sight hood was then developed on a quick reaction basis to be simpler to install and easier to use than the Williams sight. In addition some improved underloaded 7.62ms MATO rounds having soft. annealed cases and cream of wheat filler were tested for performance. These were developed in hopes of correcting the errette assumitton perference noted in help because
- The open sight hood snaps over the existing rear sight of the FAL rifle, and in theory makes shooting in poor light or at night easier. It can be used with either standard factory loads or the underloaded assumition in conjunction with the muzzle attachment silencer. The notch on the rear sight hood is "U" shaped and raised to compensate for the more curving trajectory of the low velocity ammunition. The hood is easily detached making the conventional peep sight available any time it is desired.
- 3. The attached data sheet summarizes the test results. was found that some familiarization was necessary to get used to the open sight. Under ideal conditions the sight was as easy to use as the peep sight although it was more difficult to maintain uniform vertical grouping. The relationship between the eye and rear sight was found to be very critical. As the tests proceeded a change was noted in the point of impact vs. point of aim which was thought to be due to a change in might middle. thought to be due to a change in sight picture on the part of the tindersigned.
- 4. The improved assumition was found to be quite consistant in performance. The use of cream of wheat filler to tamp the powder charge against the primer was an attempt to get more even ignition with correspondingly improved accuracy. The expended cartridge cases were checked periodically and no evidence was found of the soft annealed cases not expanding properly. During the tests the rifle and ammunition combination instilled a degree of confidence in the undersigned not present in the previous tests.

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Red: Newly revealed in 2025.

Blue: Present in earlier releases, but not in 2025.

Black Unchanged between versions.

For Original Documents visit: archives.gov/research/jfk/release-2025

Notes:

Black text on a blue background inidcates content that was previously redacted using black ink.

I did my best to be accurate in revealing what is new, but please confirm with the original sources where accuracy is essential.

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- Tests were conducted in the evening to determine the degree of usefulness of the sight in poor light. In this respect a 22 Caliber Hi-Standard pistol with folding shoulder stock and Bushnell 1.3% Phantom scope was tested in comparison. The scope was equipped with yellow filters to brighten the sight picture for low light level use. It was the opinion of both test personnel that the scope was superior to either the peep sight or open sight for as long as their was some illumination on the silhouette targets. Once the light failed the scope was completely useless although the undersigned could still discern targets with the naked eye out to 50 yds. All actual shooting was done with the open sight and some difficulty was experienced in hitting the targets at ranges of 100 yds, or more even at dusk. The closer targets could be easily hit up until it became too dark to see them at all. A large rain cloud moving from behind the firing position gradually obscured all available light. For the final shooting at 25 yds. occasional lightning flashes gave only a vague awareness of the target location. At no time during the night trials was there any nuzzle flash visible from the under loaded assumition and nuzzle silencer combination. The gas port which was in the off position during the daylight trials was turned on at night but no flash was visible at the breech. A fine white cloud of cream of wheat powder was visible in front of the suzzle at almost full darkness but could not be seen more than 30 feet away.
- 6. Listener trials were conducted the following day to determine how far away an alert listener could discern the mechanical noise of the mechanism and that of the round being fired. Hr. Ricker walked away downwind at an angle of 90 degrees to the line of fire and stopped to listen every 25 paces. The undersigned fired single rounds, (hand actuating the mechanism) each time Hr. Ricker stopped. At 325 paces, or roughly 275 yds., Mr. Ricker reported he could still hear the mechanism being actuated, the round being fired, and the bullet striking a concrete pillar 200 yds. down-range. However, he stated that he might not have noticed the sound at that range had he not been listening for it specifically.
- * 7. One of the major causes for concern at the start of the tests was that the cream of wheat filler might clog the silencer and render it ineffective. A total of 200 rounds were fired with the silencer in place and the noise level did seem to be higher at the finish of the second day. (Round numbers 180 to 200 were the ones expended during the previously mentioned listener trials). Inspection of the silencer at a later date revealed considerable cream of wheat residue in the screening. Sound level measurements made in the AMF sound lab showed that while the total noise level was no higher, the duration was relatively longer. This would make the milencer seem louder to near by observers but not increase the range at which it could be heard. However, from a standpoint of the ability for a listener to discriminate a milencer being fired from random noise, the longer duration gives him a better chance to recognize what he hears.

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8. On 19 June 1964, the undersigned went to the warehouse at Franconia to try to fit the sight hood to other 7.65mm FAL rifles. It was suspected that the fit might be a problem when it so would not fit over the rear sights of three FAL rifles at Isolation. Although it was later determined that the three rifles were of a different lot and may therefore have different tolerances on the rear sight casting, it was felt that further checking was necessary. Hime FAL rifles from the same lot as those obtained by WH/SA/MOB/PM were unpackaged and the sight hood tried on the rear sight. Of the nine, two were perfect fits and the other seven too thick for the hood to fit. This created a problem in that the sight hoods had to fit rifles which for operational reasons could not be measured before hand to determine the thickness of the rear sight blade. Providing adjustment in the slot of the sight hood would have complicated the fixture to the point where it could become operationally unsuitable. Therefore it was determined that the best solution was to provide several small files with the hoods. The peep sight on the rifles, a soft casting, was found to be quite easy to file. In most cases it would be necessary only to file several thousandths to obtain a proper fit. This procedure was explained to C/WH/SA/MOB/FM and he stated that it would be acceptable.

This act 9. On 24 June 1964, three open sight boods with accessories consisting of two files and a small screwdriver were turned over to C/WH/SA/MOB/PM. In addition, 400 rounds of improved underloaded ammunition with cream of wheat filler were provided as a replacement for the original 400 underloaded rounds.

10. On 29 June 1964, it was discovered that a scope was available for the 7.62mm Belgium (FAL) Rifle (Sniper Version) and in the Agency supply system. Steps are being taken to obtain a scope for evaluation. The results will be forwarded to C/FH/SA/MOB.

DANIEL J. BOGAN
TSD/EB

DDP/TSD/ER/DJE/EC

c: C/TSD C/WH/SA/MOB/PM

STANDARD VELOCITY AMMUNITION, DAYLIGHT:

RANGE	RAMP SETTING	BIGHT TYPE	POINT OF (RELATIVE	EXTREME SPREAD	NO. OF ROUNDS
100 yds. 100 yds. 100 yds. 100 yds.	No. 3 No. 3 No. 2 No. 8	Peap Peap Open Bood Open Hood	On On 24" high 26" high		5

ERLOADED AMMUNITION, OPEN SIGHT ECOD, DAYLIGHT:

RANGE	RAMP SETTING	POINT OF IMPACT (RELATIVE TO POINT OF AIM)	extreme epread	HORIZONTAL SPREAD	WERTICAL EPREAD	NO. OF BOUNDS
100 yds. 100 yds.	No. 6 No. 6 No. 6 Full Elevation Full Elevation Full Elevation	3" high 3" low On 4" left, 4" low 6" left, 8" low On (Diff. Shooter) 8" left, 8" low	1 3/4" 2 3/4" 5" 9"	 2" 5" 6" 91"	13"	5 5 5 10 5 10 5
125 yds. 125 yds.	Fo 2 Full Elevation	8" left, 18" low On (Changed Sight Picture)			10"	8 (2 missed (target)
-		*		6"	18"	8 (2 missed turget)
. J yds.	Pull Elevation	6" los (Changed Sight Pic- ture)		8*	36"	10

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UNDERLOADED AMMUNITION, OPEN SIGHT HOOD, DUSI	UNDERLOADED	MUNITION.	OPEN	SIGHT	HOOD.	DUSE
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RANGE	no. Of hounds	MO, OF HITS	HOREGONTAL	SPREAD	VERTICAL SPREAD	REMARKS
300 ycs.	10	•	15"		854 () Branch Pills.	Could see target more
						clearly through Peep ; sight but no rounds
yds.	10	8	8" %		6 *	were fired. Could see target very
						clearly with 1.3%
³⁷ ≒ y			2	* *		- Books 186

UNDER OADED AMMUNITION, ALMOST PULL DARK, OPEN SIGHT BOOD:

RANGE	NO. OF	ROUNDS N	O, OF HITS	BORTEONTAL	SPREAD	VERTICAL SPREAD	REMARKS
75 yds.	10	•		9" 🤹		gn San San	Poop sight useless
25 yds.	10	1	0	14"2		25"	Could see targets out to
						The second se	200 yds. with filtered scope at start of
•				.			firing, could not see
		. "		Ę.			at all w/scope at

DERLOADED AMMUNITION, OPEN SIGHT HOOD, PULL DARK:

RANGE	NO. OF ROUNDS	RO. OF HITS	REMARKS		· · · · · · · · · · · · · · · · · · ·
25 yds.	10	\$ (scattered)	Target in total darkness,	rain cloud	overhead, inter-
.			mistant lightning flashe terget location.	B gave a va	guo avareness of