

CENTRAL MASSACHUSETTS LAW ENFORCEMENT COUNCIL

CEMLEC SWAT TEAM

SNIPER/OBSERVER UNIT - TRAINING REPORT

Date: June 29, 2011 **Time:** 0900-1400 **Training Hrs:** 5

Location(s): Milford P.D. Range

Members Present:

S2- Lupachini

S3- Fahey

Scott Nelson- MetroLEC SWAT

Training Topic: Live Fire- Ammunition Testing- Glass Barriers

Training Summary: Weather: 80f clear/dry sunny

Today we tested how the ammunition we carry for sniper rifles would perform through different types of glass barriers. See attached report for details.

Report Submitted By: Lupachini Date: 6-30-11

CEMLEC SWAT Sniper Element Ammunition Testing on Glass Barriers

Date: June 29, 2011 **Time:** 0900-1400 **Location:** Milford Police Dept Range

Initial Set Up:

As depicted in Photo 1 the test medium consisted of 4 panes of 8"x10" wire reinforced ¼" commercial glass. A cardboard backer with face targets was placed at various distances from the glass in order to observe the results after the projectile passed through the glass medium.

The shooters were positioned 50 yards from the glass, with no angle to the medium. All shots were straight on from either a bench rested or prone shooting position. One shot would be taken at each pane of glass from a different rifle using different ammunition. After each shot the result would be recorded and photographed.



Photo 1

Time: 1116 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

-	Time: 1110 Temp: 001 Weather. Creat/Bif Bamily Buffight 100 White Value						
		Distance/				POA/POI	
	Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
	1	50 y/0	Win Match 168gr	Armalite AR-10 .308	8"x10" wire		
			JHPBT	18"bbl	reinforced 1/4"	None noted	
Notes/Comments		Comments	Bottom left target 18" from glass. Glass and bullet fragmentation contained				
			to target sheet.				



Photo 2



Photo 3

Time: 1135 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
2	50 y/0	Black Hills Match	GA Precision Rem	8"x10" wire		
		168 gr JHPBT	700 20" bbl	reinforced 1/4"	None noted	
Notes/Comments		Top left target 24" from glass. Glass and bullet fragmentation struck target				
		to the right	-	-		



Photo 4



Photo 5

Time: 1148 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Time. 11 to Temp. 601 Weather. Clean Bly Banny Buyinght 110 Wind Value						
	Distance/				POA/POI		
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference		
3	50 y/0	Federal Gold Match	Surgeon Rem 700	8"x10" wire			
		168 gr JHPBT	22" bbl	reinforced 1/4"	None noted		
Notes/Comments		Bottom right target 36" from glass. Glass and bullet fragmentation					
off the target to the right							



Photo 6



Photo 7

Time: 1200 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
4	50 y/0	Hornady TAP 110gr	LWRC M6A2	8"x10" wire		
		6.8mm SPC	16" bbl	reinforced 1/4"	Unknown	
Notes/	Comments	Top right target 18" from glass. Glass and bullet fragmentation very				
		pronounced from top to bottom of target. 2 distinct holes within the target				
		box.				



Photo 8



Photo 9

Time: 1219 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
5	50 y/0	Win Match 168gr	Armalite AR-10 .308	19" x 35" dbl		
		JHPBT	18"bbl	pane thermal	none	
Notes/Comments		Hostage type target 18" from glass. Small glass fragment indentations on				
		face target, hostage target OK. Bullet impact hole elongated on target				
		possibly from bullet y	aw and/or fragmentation	on .		



Photo 10



Photo 11

Time: 1230 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
6	50 y/0	Black Hills Match	GA Precision Rem	19" x 35" dbl		
		168 gr JHPBT	700 20" bbl	pane thermal	none	
Notes/	Comments	Hostage type target 18" from glass. Small amount of fragmentation noticed				
		within the target box. Bullet impact hole more circular suggesting less yaw				
		and/or fragmentation.	•			



Photo 12



Photo 13

Time: 1239 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
7	50 y/0	Hornady TAP 110gr	LWRC M6A2	19" x 35" dbl		
		6.8mm SPC	16" bbl	pane thermal	none	
Notes/Comments		Hostage type target 18" from glass. Bullet and some glass fragmentation				
		more significant, with an elongated bullet impact hole, but contained on				
		target				



Photo 14



Photo 15

Time: 1300 Temp: 80 f Weather: Clear/Dry Sunny Daylight No wind value

	Distance/				POA/POI	
Shot#	Angle	Ammo/Caliber	Rifle Used	Barrier Type	Difference	
8	50 y/0	Federal Gold Match	Surgeon Rem 700	23" x 24" &		
		168 gr JHPBT	22" bbl	19" x 35" dbl	none	
				pane thermal		
Notes/Comments		2 double pane windows. #1 set 10' from muzzle, #2 at 50 yards. Hostage				
		type target 18" from glass. 1 st pane had a circular hole, 2 nd pane had a				
		triangular shaped hole. Large bullet impact hole. Glass and bullet				
fragments contained on the target.						



Photo 16

Shot 8 Continued:



Photo 17



Photo 18