

**DEPARTMENT OF HOMELAND SECURITY
COMPLIANCE TEST REPORT**



Report Identification Number: ADS17005-1
Issue/Revision Number: Initial Issue
Report Date: 6/22/2017

200818-0
NVLAP Lab Code

NIJ Approved Test Laboratory Name: National Technical Systems-Wichita Division
Address: 7447 West 33rd Street North
Wichita, KS 67205
U.S.A.

Customer: ATEK Defense Systems, LLC.
Address: 225 W. Arrowhead Trail Rd.
Spanish Fork, UT 84660
U.S.A.

Conditioning Laboratory Name: National Technical Systems-Wichita Division
Address: 7447 West 33rd Street North
Wichita, KS 67205
U.S.A.

Model No.: NPK-III A-1

This test report and the results herein are to be used solely for the purpose of determining compliance to the NIJ 0101.06 Body Armor Standard ICW The Department of Homeland Security (RFP) HSBP1016R0004 - Attachment 1 SOW. The test data should not be used to compare the relative performance characteristics between different models of body armor.

Reproduction of this test report is prohibited except in full.

This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.

Test results relate only to the items tested.

Authorized Signatory: Jake Crawford
Function/Position: Range Operations Manager

Signature: _____
Date: _____

**DEPARTMENT OF HOMELAND SECURITY
COMPLIANCE TEST REPORT**

NVLAP Lab Code: 200818-0 Test Laboratory Name: National Technical Systems-Wichita Division
 Report Identification Number: ADS17005-1
 Issue / Revision Number: Initial Issue

DHS COMPLIANCE TESTING INFORMATION

Test Start Date: 05/27/17 Report Date: 06/22/17 Observers: N/A
 End Date: 06/21/17

RANGE INFORMATION:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Velocity Measurement Units: time
 Velocity 2: 4.085 ft. 1.245 m Chronographs will report the time of flight.

ARMOR DESCRIPTION:

Manufacturer: ATEK Defense Systems, LLC.

Data should be entered in μs (10^{-6} s).

Date Rec'd: 05/25/17 Model No.: NPK-III A-1 NIJ Armor Type: 3A
 Style: Male / Side Opening

SHOT-TO-EDGE REQUIREMENTS:

Threat 1: 2.0 - 2.75 Inches
 Threat 2: 3.0 - 3.75 Inches

Labels legible and adhered after wear tests? Yes (Yes/No)

Labels legible and adhered after conditioning protocol: Yes (Yes/No)

Labels meet the requirements of 4.1.5.3

ARMOR CONSTRUCTION:

Front Panel A

Rear Panel B

Front Closure (Y/N): No

Front Closure (Y/N): No

Armor Test Configuration: Planar

Armor Test Configuration: Planar

Number of Layers: 25

Number of Layers: 25

Individual Layer Description: **Panels A&B Size C-5 Two-Panel Design:**
 Layer 1: Coated flex woven aramid fiber (24x24)
 Layers 2-8: Smooth flex polyethylene film
 Layers 9-11: Coated flex woven aramid fiber (24x24)
 Layers 12-19: Smooth flex polyethylene film
 Layers 20-25: Coated flex woven aramid fiber (24x24)

Individual Layer Description: **Panels A&B Size C-1 Two-Panel Design:**
 Layer 1: Coated flex woven aramid fiber (24x24)
 Layers 2-8: Smooth flex polyethylene film
 Layers 9-11: Coated flex woven aramid fiber (24x24)
 Layers 12-19: Smooth flex polyethylene film
 Layers 20-25: Coated flex woven aramid fiber (24x24)

Description of Stitching: **Panels A&B Size C-5 Two-Panel Design:**
C-5:
 Layers 1-25: (1) 4.0" and (1) 5.0" diagonal / parallel bar tack at each of the (6) corners
 *(Top Left, Top Right, Bottom Left, Bottom Right, Top Left Wing, Top Right Wing)

Description of Stitching: **Panels A&B Size C-1 Two-Panel Design:**
C-1:
 Layers 1-25: (1) 3.0" and (1) 4.0" diagonal / parallel bar tack at each of the (4) corners
 *(Top Left, Top Right, Bottom Left, Bottom Right)

Remarks and Revision History: ***THE DATA SHOWN IN THIS REPORT IS NOT SANCTIONED BY THE NATIONAL INSTITUTE OF JUSTICE (NIJ), NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) OR THE NATIONAL LAW ENFORCEMENT AND CORRECTIONS TECHNOLOGY CENTER (NLECTC). THIS REPORT SHALL NOT BE USED TO CLAIM PRODUCT CERTIFICATION, APPROVAL OR ENDORSEMENT BY NIJ, NVLAP, NIST OR ANY AGENCY OF THE FEDERAL GOVERNMENT. Zeraer/Nold/Nauven/Wilson**

DEPARTMENT OF HOMELAND SECURITY
COMPLIANCE TEST REPORT

Use this space to enter any necessary supplemental information

***THE DATA SHOWN IN THIS REPORT IS NOT SANCTIONED BY THE NATIONAL INSTITUTE OF JUSTICE (NIJ), NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) OR THE NATIONAL LAW ENFORCEMENT AND CORRECTIONS TECHNOLOGY CENTER (NLECTC). THIS REPORT SHALL NOT BE USED TO CLAIM PRODUCT CERTIFICATION, APPROVAL OR ENDORSEMENT BY NIJ, NVLAP, NIST OR ANY AGENCY OF THE FEDERAL GOVERNMENT.**

Test Remarks / Notes:

- 1) See attached photos (if applicable)
- 2) C-1 and C-5 Panels: Shots 1-6 Tested Planar
- 3) Conditioning Protocol Duration IAW DHS SOW, Section 4.1.11.2:
 - a. 14 Days +/- 1 Hour
 - b. 100,800 Total Rotations +/- 2100

Strapping Method (Section 7.7.2.1):

- (a) Default Strapping Method: Two vertical and three horizontal straps
- C-1 Panels: (Figure A.) Standard Strapping Arrangement for Smaller Samples
- C-5 Panels: (Figure B.) Standard Strapping Arrangement for Larger Sample with Fixture Extensions

Conditioned Armor Testing Protocol and Timeline:

05/25/17: (8) C-5 and (4) C-1 panels received and allowed to acclimate for 24 hours at pretest conditions prior to exposure to NIJ / DHS Conditioning Protocol and ballistic testing

05/27/17: (8) C-5 and (4) C-1 Panels combined for Threat 1 P-BFS and BL and Threat 2 P-BFS testing placed into conditioning chamber IAW NIJ 0101.06, Section 5 Conditioning Protocol with the exception of duration

*Conditioning Protocol Duration IAW DHS SOW Section 4.1.11.2: **14 Days +/- 1 Hour**

06/10/17: Conditioned panels removed from conditioning chamber and allowed to return to ambient pre-test conditions for a minimum of 12 hours prior to ballistic testing

06/16/17: Conditioned Threat 1 P-BFS testing performed

06/21/17: Conditioned Threat 2 P-BFS and Conditioned Threat 1 and Threat 2 BL testing performed

DEPARTMENT OF HOMELAND SECURITY COMPLIANCE TEST REPORT

NVLAP Lab Code: 200818-0	Test Laboratory Name: National Technical Systems-Wichita Division
	Report Identification Number: ADS17005-1
	Issue / Revision Number: Initial Issue

Sample Information and Description

Armors in "As-New" Condition

Manufacturer: ATEK Defense Systems, LLC. Model No.: NPK-III-A-1										NJ Type: 3A									
Penetration-Backface Signature (P-BFS) Test Samples																			
Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6		Sample 7		Sample 8		Sample 9		Sample 10	
SAMPLE DESCRIPTION																			
Size:																			
Panel Serial Number:																			
Panel Report No.:																			
Lot Number:																			
Panel Weight (lbs.):																			
TEST DESCRIPTION																			
Test Condition:																			
Threat Ammunition:																			
Bullet (grain/type):																			
Test Velocity (ft/s):																			
Angle at Location #4:																			
THREAT DESCRIPTION																			
Bullet Manufacturer:																			
Bullet Lot/Product Number:																			
Test Barrel ID#:																			
Test Barrel Length (in.):																			
Manufacturer: ATEK Defense Systems, LLC. Model No.: NPK-III-A-1										NJ Type: 3A									
Baseline Ballistic Limit - Threat 1																			
Sample 11		Sample 12		Sample 13		Sample 14		Sample 15		Sample 16		Sample 17		Sample 18		Sample 19		Sample 20	
SAMPLE DESCRIPTION																			
Size:																			
Panel Serial Number:																			
Panel Report No.:																			
Lot Number:																			
Panel Weight (lbs.):																			
TEST DESCRIPTION																			
Test Condition:																			
Threat Ammunition:																			
Bullet (grain/type):																			
Test Velocity (ft/s):																			
Shots on Panel:																			
THREAT DESCRIPTION																			
Bullet Manufacturer:																			
Bullet Lot/Product Number:																			
Test Barrel ID#:																			
Test Barrel Length (in.):																			

Environmental Conditioned Armors

Manufacturer: ATEK Defense Systems, LLC. Model No.: NPK-III-A-1										NJ Type: 3A									
Penetration-Backface Signature (P-BFS) Test Samples																			
Sample 21		Sample 22		Sample 23		Sample 24		Sample 25		Sample 26		Sample 27		Sample 28					
SAMPLE DESCRIPTION																			
Size:																			
Panel Serial Number:																			
Conditioning Requirement:																			
Lot Number:																			
Panel Weight (lbs.):																			
TEST DESCRIPTION																			
Test Condition:																			
Threat Ammunition:																			
Bullet (grain/type):																			
Test Velocity (ft/s):																			
Angle at Loc #4/ Shots on Panel:																			
THREAT DESCRIPTION																			
Bullet Manufacturer:																			
Bullet Lot/Product Number:																			
Test Barrel ID#:																			
Test Barrel Length (in.):																			

**DEPARTMENT OF HOMELAND SECURITY
COMPLIANCE TEST REPORT**

Threat 1 - Conditioned Armor														Model No.: NPK-III-A-1			
Ammunition: .357 SIG				125/TMJ				Test Velocity: 429.8 ± 9.1 m/s				Conditioning: Conditioned					
Conditioning Requirement: DHS 7-Year																	
Shot Number	Sample 21				Size: C-5				Sample 22				Size: C-1				
	Front Panel				Back Panel				Front Panel				Back Panel				
	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	
1	440.1	0	27.96		433.3	0	25.42		432.7	0	28.30		432.4	0	27.11		
2	433.4	0	23.07		431.3	0	29.12		426.7	0	25.81		426.4	0	24.47		
3	436.8	0	28.86		428.3	0	28.05		426.7	0	27.27		443.2	0	26.00		
4	433.2	0			429.9	0			432.8	0			430.2	0			
5	439.5	0			433.9	0			432.4	0			428.3	0			
6	432.4	0			425.6	0			430.9	0			426.3	0			
7																	
8																	
Summary:		Perforations: 0 (Pass)								Perforations: 0 (Pass)							

Threat 2 - Conditioned Armor														Conditioning: Conditioned			
Ammunition: .44 Mag				240/SJHP				Test Velocity: 408.4 ± 9.1 m/s									
Conditioning Requirement: DHS 7-Year																	
Shot Number	Sample 23				Size: C-5				Sample 24				Size: C-1				
	Front Panel				Back Panel				Front Panel				Back Panel				
	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (m/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	
1	412.6	0	33.26		411.1	0	33.72		411.7	0	34.63		416.8	0	36.55		
2	404.9	0	36.42		420.8	0	33.79		408.3	0	37.22		419	0	35.45		
3	401.5	0	31.52		415.3	0	33.32		411.9	0	35.28		400.2	0	33.61		
4	406.0	0			416.8	0			416.1	0			408.2	0			
5	424.5	0			402.6	0			410.6	0			415.2	0			
6	408.3	0			401.1	0			410.5	0			414.1	0			
7																	
8																	
Summary:		Perforations: 0 (Pass)								Perforations: 0 (Pass)							

Overall P-BFS Summary															
Perforations: This requirement is for all P-BFS tested samples - New and Conditioned															
0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.															
Backface Signature: This requirement is for New armors only															
Maximum BFS: 0 mm															
Threat 1: Test Not Initiated, Threat 1: Test Not Initiated, Threat 2: Test Not Initiated, Threat 2: Test Not Initiated,															

DEPARTMENT OF HOMELAND SECURITY
COMPLIANCE TEST REPORT

Threat 1 - Conditioned Armor

Ammunition: .357 SIG 125/TMJ Model No.: NPK-III-A-1
 Test Velocity: 429.8 ± 9.1 m/s Conditioning: Conditioned
 Conditioning Requirement: DHS 7-Year

Shot Number	Sample 25			Sample 25		
	Front	Panel	Remarks	Back	Panel	Remarks
	Avg. Vel. (m/sec)	Perf (Y=1/N=0)		Avg. Vel. (m/sec)	Perf (Y=1/N=0)	
1	426.5	0		429.7	0	
2	464.8	0		469.1	0	
3	490.5	0		503.5	0	
4	504.2	0		527.2	1	
5	524.4	0		496.4	0	
6	550.2	1		505.8	0	
7	539.8	1		531.4	0	
8	510.9	0		547.2	1	
9	523.7	0		525.4	0	
10	541.0	1		534.7	1	
11	538.5	1		507.9	0	
12	522.1	1		520.8	0	
13						
14						
15						

Summary:

Total Usable Shots: 24 Acceptable
 Perforations (CP): 8
 Stops (PP): 16
 Perforations below 438.9 m/s: 0 Acceptable

Estimated V50: 528.17 m/s

Threat 2 - Conditioned Armor

Ammunition: .44 Mag 240/SJHP Model No.: NPK-III-A-1
 Test Velocity: 408.4 ± 9.1 m/s Conditioning: Conditioned
 Conditioning Requirement: DHS 7-Year

Shot Num	Sample 26			Sample 26		
	Front	Panel	Remarks	Back	Panel	Remarks
	Avg. Vel. (m/sec)	Perf (Y=1/N=0)		Avg. Vel. (m/sec)	Perf (Y=1/N=0)	
1	402.9	0		410.6	0	
2	452.8	1		445.9	0	
3	426.1	0		476.6	1	
4	433.9	0		467.1	1	
5	459.9	0		436.8	0	
6	457.1	0		436.9	0	
7	469.0	1		455.4	0	
8	448.8	0		467.5	0	
9	466.7	0		485.9	1	
10	476.6	1		450.7	0	
11	463.3	0		477.0	1	
12	473.7	0		463.7	0	
13						
14						
15						

Summary:

Total Usable Shots: 24 Acceptable
 Perforations (CP): 7
 Stops (PP): 17
 Perforations below 417.5 m/s: 0 Acceptable

Estimated V50: 468.86 m/s

Overall Ballistic Limit Summary

Perforations below Vref + 9.1 m/sec: 0 This requirement is for all Ballistic Limit tested samples - New and Conditioned
 This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Probability of perforation at the P-BFS reference velocity This requirement is for New armors only
 Threat 1: 0.00%
 Threat 2: 0.00%
 This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

DEPARTMENT OF HOMELAND SECURITY COMPLIANCE TEST REPORT

Threat 1 - Conditioned Armor										Model No.: NPK-III-A-1						
Ammunition:		.357 SIG		125/TMJ		Test Velocity: 1410 ± 30 ft/s				Conditioning: Conditioned						
Conditioning Requirement:										DHS 7-Year						
Sample 21					Sample 22											
Size: C-5					Size: C-1											
Shot Number	Front Panel			Note	Back Panel			Note	Front Panel			Note	Back Panel			
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	
1	1444	0	27.96		1422	0	25.42		1420	0	28.30		1419	0	27.11	
2	1422	0	23.07		1415	0	29.12		1400	0	25.81		1399	0	24.47	
3	1433	0	28.86		1405	0	28.05		1400	0	27.27		1454	0	26.00	
4	1421	0			1410	0			1420	0			1411	0		
5	1442	0			1424	0			1419	0			1405	0		
6	1419	0			1396	0			1414	0			1399	0		
7																
8																
Summary:		Perforations: 0 (Pass)			Maximum BFS: 29.12 mm (no requirement)			Perforations: 0 (Pass)			Maximum BFS: 28.3 mm (no requirement)					

Threat 2 - Conditioned Armor										Conditioning: Conditioned						
Ammunition:		.44 Mag		240/SJHP		Test Velocity: 1340 ± 30 ft/s				Conditioning: Conditioned						
Conditioning Requirement:										DHS 7-Year						
Sample 23					Sample 24											
Size: C-5					Size: C-1											
Shot Number	Front Panel			Note	Back Panel			Note	Front Panel			Note	Back Panel			
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)		Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	
1	1354	0	33.26		1349	0	33.72		1351	0	34.63		1367	0	36.55	
2	1328	0	36.42		1381	0	33.79		1340	0	37.22		1375	0	35.45	
3	1317	0	31.52		1363	0	33.32		1351	0	35.28		1313	0	33.61	
4	1332	0			1367	0			1365	0			1339	0		
5	1393	0			1321	0			1347	0			1362	0		
6	1340	0			1316	0			1347	0			1359	0		
7																
8																
Summary:		Perforations: 0 (Pass)			Maximum BFS: 36.42 mm (no requirement)			Perforations: 0 (Pass)			Maximum BFS: 37.22 mm (no requirement)					

Overall P-BFS Summary															
<p>Perforations: This requirement is for all P-BFS tested samples - New and Conditioned</p> <p style="margin-left: 20px;">0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.</p>															
<p>Backface Signature: This requirement is for New armors only</p> <p>Maximum BFS: 0 mm</p> <p style="margin-left: 20px;">Threat 1: Test Not Initiated, Threat 1: Test Not Initiated, Threat 2: Test Not Initiated, Threat 2: Test Not Initiated,</p>															

DEPARTMENT OF HOMELAND SECURITY COMPLIANCE TEST REPORT

Threat 1 - Conditioned Armor

Ammunition: .357 SIG 125/TMJ Model No.: NPK-III-A-1
 Test Velocity: 1410 ± 30 ft/s Conditioning: Conditioned
 Conditioning Requirement: DHS 7-Year

Shot Number	Sample 25			Sample 25		
	Front	Panel	Back	Panel	Back	Panel
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Remarks	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Remarks
1	1399	0		1410	0	
2	1525	0		1539	0	
3	1609	0		1652	0	
4	1654	0		1730	1	
5	1720	0		1629	0	
6	1805	1		1659	0	
7	1771	1		1743	0	
8	1676	0		1795	1	
9	1718	0		1724	0	
10	1775	1		1754	1	
11	1767	1		1666	0	
12	1713	1		1709	0	
13						
14						
15						

Summary:		Total Usable Shots: 24	Acceptable
		Perforations (CP): 8	
		Stops (PP): 16	
	Perforations below 1440 ft/s:	0	Acceptable
Estimated V50:		1733	ft/s

Threat 2 - Conditioned Armor

Ammunition: .44 Mag 240/SJHP Model No.: NPK-III-A-1
 Test Velocity: 1340 ± 30 ft/s Conditioning: Conditioned
 Conditioning Requirement: DHS 7-Year

Shot Number	Sample 26			Sample 26		
	Front	Panel	Back	Panel	Back	Panel
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Remarks	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Remarks
1	1322	0		1347	0	
2	1486	1		1463	0	
3	1398	0		1564	1	
4	1424	0		1532	1	
5	1509	0		1433	0	
6	1500	0		1433	0	
7	1539	1		1494	0	
8	1472	0		1534	0	
9	1531	0		1594	1	
10	1564	1		1479	0	
11	1520	0		1565	1	
12	1554	0		1521	0	
13						
14						
15						

Summary:		Total Usable Shots: 24	Acceptable
		Perforations (CP): 7	
		Stops (PP): 17	
	Perforations below 1370 ft/s:	0	Acceptable
Estimated V50:		1538	ft/s

Overall Ballistic Limit Summary

<p>Perforations below Vref + 30 ft/sec: 0 <u>This requirement is for all Ballistic Limit tested samples - New and Conditioned</u></p> <p>This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.</p>	<p>Probability of perforation at the P-BFS reference velocity <u>This requirement is for New armors only</u></p> <p>Threat 1: 0.00%</p> <p>Threat 2: 0.00%</p> <p>This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.</p>
--	--

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/16/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:
 Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

Sample 21 Panel A		
Panel Serial No:	31B76E75A	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:
Block ID: 14
Time of Day: 9:43 HH:mm
Clay Temperature: 100.0 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19.54	18.26	18.34	18.85	18.13	18.62
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:
Start **End**
 Ambient Temp: 72 75 F
 Rel. Humidity: 50 51 %

Firing Sequence
Start: 9:54 HH:mm
End: 10:02 HH:mm
Duration: 8 min

PANEL A											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3465	1443	2828	1444	1444	0°	Yes	0		27.96	
2	3518	1421	2871	1423	1422	0°	Yes	0		23.07	
3	3486	1434	2853	1432	1433	0°	Yes	0		28.86	
4	3520	1420	2872	1422	1421	30°	Yes	0			
5	3470	1441	2831	1443	1442	45°	Yes	0			
6	3526	1418	2878	1419	1419	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:
Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

- NOTES:**
- a - Excessive velocity
 - b - Insufficient velocity
 - c - Too close to edge
 - d - Too close to prior impact
 - e - Excessive total impacts (test terminated)
 - f - Excessive area impacts (test terminated)
 - g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/16/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

Sample 21 Panel B		
Panel Serial No:	31B76E745	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 14
Time of Day: 10:10 HH:mm
Clay Temperature: 99.3 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19.54	18.27	20.32	18.45	19.10	19.14
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 48 49 %

Firing Sequence
Start: 10:14 HH:mm
End: 10:24 HH:mm
Duration: 10 min

PANEL B											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3519	1421	2872	1422	1422	0°	Yes	0		25.42	
2	3536	1414	2885	1416	1415	0°	Yes	0		29.12	
3	3560	1404	2905	1406	1405	0°	Yes	0		28.05	
4	3547	1410	2895	1411	1410	45°	Yes	0			
5	3514	1423	2868	1424	1424	30°	Yes	0			
6	3577	1398	2928	1395	1396	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/16/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:
 Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

Sample 22 Panel A		
Panel Serial No:	31B76E72E	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:
Block ID: 14
Time of Day: 10:30 HH:mm
Clay Temperature: 98.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18.61	20.13	19.54	18.22	20.76	19.45
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:
Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 50 50 %

Firing Sequence
Start: 10:35 HH:mm
End: 10:46 HH:mm
Duration: 11 min

PANEL A											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3519	1421	2880	1418	1420	0°	Yes	0		28.30	
2	3574	1399	2916	1401	1400	0°	Yes	0		25.81	
3	3574	1399	2916	1401	1400	0°	Yes	0		27.27	
4	3518	1421	2879	1419	1420	45°	Yes	0			
5	3526	1418	2878	1419	1419	30°	Yes	0			
6	3539	1413	2888	1414	1414	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:
Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

- NOTES:**
- a - Excessive velocity
 - b - Insufficient velocity
 - c - Too close to edge
 - d - Too close to prior impact
 - e - Excessive total impacts (test terminated)
 - f - Excessive area impacts (test terminated)
 - g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/16/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

Sample 22 Panel B		
Panel Serial No:	31B76E72C	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 14
Time of Day: 10:51 HH:mm
Clay Temperature: 97.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20.15	17.32	18.54	19.21	17.64	18.57
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 50 51 %

Firing Sequence
Start: 10:55 HH:mm
End: 11:04 HH:mm
Duration: 9 min

PANEL B											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3527	1418	2878	1419	1419	0°	Yes	0		27.11	
2	3576	1398	2918	1400	1399	0°	Yes	0		24.47	
3	3441	1453	2808	1455	1454	0°	Yes	0		26.00	
4	3539	1413	2897	1410	1411	30°	Yes	0			
5	3561	1404	2905	1406	1405	45°	Yes	0			
6	3577	1398	2919	1399	1399	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID: 14
Time of Day: 11:10 HH:mm
Clay Temperature: 97.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18.54	20.37	19.22	18.56	18.47	19.03
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .44 Mag 240/SJHP
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1340 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold/Nguyen

Sample 23		
Panel A		
Panel Serial No:	31B76E732	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 6
Time of Day: 7:18 HH:mm
Clay Temperature: 99.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19.12	19.41	18.89	19.18	20.30	19.38
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 74 75 F
 Rel. Humidity: 50 46 %

Firing Sequence
Start: 7:25 HH:mm
End: 7:35 HH:mm
Duration: 10 min

PANEL A											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3696	1353	3016	1354	1354	0°	Yes	0		33.26	
2	3766	1328	3074	1329	1328	0°	Yes	0		36.42	
3	3798	1316	3099	1318	1317	0°	Yes	0		31.52	
4	3756	1331	3065	1333	1332	30°	Yes	0			
5	3592	1392	2931	1394	1393	45°	Yes	0			
6	3735	1339	3047	1341	1340	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .44 Mag 240/SJHP
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1340 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold/Nguyen

Sample 23 Panel B		
Panel Serial No:	31B76E749	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 6
Time of Day: 7:42 HH:mm
Clay Temperature: 99.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20.30	18.54	19.36	19.47	20.38	19.61
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 46 45 %

Firing Sequence
Start: 7:47 HH:mm
End: 7:56 HH:mm
Duration: 9 min

PANEL B											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3710	1348	3027	1350	1349	0°	Yes	0		33.72	
2	3624	1380	2957	1381	1381	0°	Yes	0		33.79	
3	3672	1362	2996	1363	1363	0°	Yes	0		33.32	
4	3659	1366	2985	1369	1368	45°	Yes	0			
5	3788	1320	3090	1322	1321	30°	Yes	0			
6	3806	1314	3099	1318	1316	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .44 Mag 240/SJHP
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1340 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold/Nguyen

Sample 24		
Panel A		
Panel Serial No:	31B76E720	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 6
Time of Day: 8:04 HH:mm
Clay Temperature: 98.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18.53	20.49	19.36	20.83	17.47	19.34
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 45 45 %

Firing Sequence
Start: 8:10 HH:mm
End: 8:25 HH:mm
Duration: 15 min

PANEL A											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3704	1350	3022	1352	1351	0°	Yes	0		34.63	
2	3735	1339	3048	1340	1339	0°	Yes	0		37.22	
3	3703	1350	3021	1352	1351	0°	Yes	0		35.28	
4	3665	1364	2990	1366	1365	45°	Yes	0			
5	3714	1346	3030	1348	1347	30°	Yes	0			
6	3717	1345	3030	1348	1347	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID:
Time of Day: HH:mm
Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .44 Mag 240/SJHP
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1340 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS:

Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Lab Technician(s): Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold/Nguyen

Sample 24 Panel B		
Panel Serial No:	31B76E723	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 6
Time of Day: 8:35 HH:mm
Clay Temperature: 97.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18.21	20.01	17.56	19.79	18.31	18.78
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start **End**
 Ambient Temp: 73 73 F
 Rel. Humidity: 45 45 %

Firing Sequence
Start: 8:43 HH:mm
End: 8:56 HH:mm
Duration: 13 min

PANEL B											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3659	1366	2985	1369	1368	0°	Yes	0		36.55	
2	3640	1374	2970	1375	1375	0°	Yes	0		35.45	
3	3812	1312	3108	1314	1313	0°	Yes	0		33.61	
4	3737	1338	3048	1340	1339	30°	Yes	0			
5	3673	1361	2997	1363	1362	45°	Yes	0			
6	3683	1358	3005	1359	1358	0°	Yes	0			
7											
8											

POST-TEST CLAY VALIDATION:

Block ID: 6
Time of Day: 9:03 HH:mm
Clay Temperature: 97.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18.33	17.49	19.23	18.47	18.31	18.37
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

DEPARTMENT OF HOMELAND SECURITY COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS: Lab Technician(s):
 Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

**Sample 25
Panel A**

Panel Serial No: 31B76E73E **Conditioning Requirement:** DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 12
Time of Day: 10:25 HH:mm
Clay Temp: 99.7 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21.49	18.27	18.56	20.39	19.22	19.59
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 73 F
Rel. Humidity: 47 %

Firing Sequence

Start: 10:30 HH:mm
End: 10:43 HH:mm
Duration: 13 min

BL PANEL 21 - PANEL A										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1	6.1	3576	1398	2917	1400	1399		X	Y	
2	6.9	3281	1524	2677	1526	1525		X	Y	
3	7.7	3113	1606	2534	1612	1609		X	Y	
4	8.5	3025	1653	2468	1655	1654		X	Y	
5	9.3	2908	1719	2373	1721	1720		X	Y	
6	10.3	2772	1804	2261	1807	1805	X		Y	
7	9.7	2828	1768	2303	1774	1771	X		Y	
8	9.0	2985	1675	2435	1678	1676		X	Y	
9	9.4	2912	1717	2376	1719	1718		X	Y	
10	9.8	2819	1774	2300	1776	1775	X		Y	
11	9.4	2832	1766	2311	1768	1767	X		Y	
12	9.0	2921	1712	2383	1714	1713	X		Y	
13										
14										
15										

Count: 12 5 7 12

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

DEPARTMENT OF HOMELAND SECURITY COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 1

Report Number: ADS17005-1 **Report Date:** 06/22/17 **Test Date:** 06/21/17
Model No.: NPK-III-A-1
Manufacturer: ATEK Defense Systems, LLC. **Ammunition:** .357 SIG 125/TMJ
NIJ Armor Type: 3A **Style:** Male / Side Opening **Test Velocity:** 1410 ± 30 ft/s
Conditioning: Conditioned

TEST DIMENSIONS: Lab Technician(s):
 Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m Zerger
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m Nold

**Sample 25
Panel B**

Panel Serial No: 31B76E75E **Conditioning Time:** DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 12
Time of Day: 10:48 HH:mm
Clay Temp: 98.7 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20.47	21.56	18.38	19.24	19.56	19.84
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 73 F
Rel. Humidity: 48 %

Firing Sequence

Start: 10:54 HH:mm
End: 11:16 HH:mm
Duration: 22 min

BL PANEL 22 - PANEL B										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1	6.1	3558	1405	2889	1414	1410		X	Y	
2	7.1	3251	1538	2652	1540	1539		X	Y	
3	8.1	3029	1651	2471	1653	1652		X	Y	
4	9.1	2893	1728	2360	1731	1730	X		Y	
5	8.4	3072	1628	2507	1629	1629		X	Y	
6	8.8	3015	1658	2460	1661	1659		X	Y	
7	9.2	2870	1742	2341	1745	1743		X	Y	
8	9.6	2787	1794	2274	1796	1795	X		Y	
9	9.2	2903	1722	2368	1725	1724		X	Y	
10	9.6	2852	1753	2327	1755	1754	X		Y	
11	9.2	3002	1666	2450	1667	1666		X	Y	
12	9.6	2928	1708	2389	1710	1709		x	y	
13										
14										
15										
		Count:		12	3	9	12			

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

NOT AN OFFICIAL COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 Report Date: 06/22/17 Test Date: 06/21/17

Test ID: NPK-III-A-1

Manufacturer: ATEK Defense Systems, LLC.

Ammunition: .44 Mag 240/SJHP

Test Velocity: 1340 ± 30 ft/s

Conditioning: Conditioned

NIJ Armor Type: 3A

TEST DIMENSIONS:

Lab Technician(s):

Range Length: 16.40 ft.	Velocity 1: 5.000 ft.	1.524 m	
Laboratory Range #: 3	Velocity 2: 4.085 ft.	1.245 m	Zerger
			Nold/Nguyen

Sample 26 Panel A	
Panel Serial No: 31B76E757	Conditioning Requirement: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 5
Time of Day: 9:15 HH:mm
Clay Temp: 100.3 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21.75	20.56	21.37	21.03	20.18	20.98
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 73 F
Rel. Humidity: 46 %

Firing Sequence

Start: 9:30 HH:mm
End: 9:47 HH:mm
Duration: 17 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 23 - PANEL A										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1	15.0	3786	1321	3088	1323	1322		X	Y	
2	16.5	3373	1482	2744	1489	1486	X		Y	
3	15.5	3579	1397	2920	1399	1398		X	Y	
4	16.0	3515	1422	2868	1424	1424		X	Y	
5	16.5	3321	1506	2701	1512	1509		X	Y	
6	17.0	3341	1497	2718	1503	1500		X	Y	
7	17.5	3256	1536	2650	1542	1539	X		Y	
8	17.0	3404	1469	2768	1476	1472		X	Y	
9	17.5	3273	1528	2662	1535	1531		X	Y	
10	18.0	3205	1560	2607	1567	1564	X		Y	
11	17.5	3296	1517	2682	1523	1520		X	Y	
12	18.0	3224	1551	2623	1557	1554		X	Y	
13										
14										
15										

Count: 12 3 9 12

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

NOT AN OFFICIAL COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 2

Report Number: ADS17005-1 Report Date: 06/22/17 Test Date: 06/21/17
 Test ID: NPK-III-A-1
 Manufacturer: ATEK Defense Systems, LLC. Ammunition: .44 Mag 240/SJHP
 Test Velocity: 1340 ± 30 ft/s
 NIJ Armor Type: 3A Conditioning: Conditioned

Lab Technician(s):
 Zerger
 Nold/Nguyen

TEST DIMENSIONS:
 Range Length: 16.40 ft. Velocity 1: 5.000 ft. 1.524 m
 Laboratory Range #: 3 Velocity 2: 4.085 ft. 1.245 m

Sample 26	
Panel B	
Panel Serial No: 31B76E759	Conditioning Time: DHS 7-Year

PRE-TEST CLAY VALIDATION:

Block ID: 5
 Time of Day: 9:57 HH:mm
 Clay Temp: 99.7 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21.22	19.54	20.36	21.37	20.44	20.59
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 73 F
 Rel. Humidity: 47 %

Firing Sequence

Start: 10:06 HH:mm
 End: 10:18 HH:mm
 Duration: 12 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 24 - PANEL B										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1	15.0	3714	1346	3031	1348	1347		X	Y	
2	16.5	3426	1459	2786	1466	1463		X	Y	
3	18.0	3205	1560	2607	1567	1564	X		Y	
4	17.0	3269	1530	2660	1536	1532	X		Y	
5	16.0	3497	1430	2844	1436	1433		X	Y	
6	16.5	3496	1430	2844	1436	1433		X	Y	
7	17.0	3354	1491	2728	1497	1494		X	Y	
8	17.5	3267	1530	2658	1537	1534		X	Y	
9	18.0	3143	1591	2557	1598	1594	X		Y	
10	17.5	3389	1475	2756	1482	1479		X	Y	
11	18.0	3201	1562	2605	1568	1565	X		Y	
12	17.5	3294	1518	2679	1525	1521		X	Y	
13										
14										
15										

Count: 12 4 8 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam