NATIONAL TECHNICAL SYSTEMS BLUNT IMPACT TEST

Date Received: Via:	10/15/18 USPS				Report No.: Test Date:	HHV18001-3 10/16/18	
Returned Via:	UPS		Customer:	Hard Head Veterans			
PO No.: Test Spec.: Test Type: Requirements: Procedure: Equipment:	N/A AR/PD 10-02 Rev A with Change 6, 16 December 2013 Blunt Impact Test 3.11 4.9.13 Cadex Uni-Axial Monorail Impact Machine						
Equipment.	Model: 1000_00_MIMA Anvil Type: Hemispherical						
DAQ Software:	Version 6.9b, Last Update	ed Nov. 3, 2011					
Sample Informa			Test Procedure:	A 1			
Manufacturer: Configuration: Color / Size: Model: Sample No.: Lot No.: Weight (Ibs.):	Hard Head Veterans Finished Helmet Black / L / XL HHV ATE BALLISTIC Helmet #3 N/A 3.00		Conditioning: Pre-Conditioning: Duration: Re-Conditioning: Impacts (14): HPI: Velocity:	Ambient 24 hours @ 20 +/- 5 degrees C and 50 +/- 20% RH N/A N/A 2 impacts at each of 7 locations \geq 1 min. but \leq 2 min. apart 2.30" (Large) 10.0 ft/sec (+/- 0.3 ft/sec)			
Condition:	Ambient			(,		
<u>Test Results:</u>				1			
Impact #	Meets Time Req. (Y/N)	Impact Location	Headform Orientation	Velocity (ft/s)	Velocity (m/sec)	Peak Acceleration (G)	Pass / Fail
1	Y	Front	35° off vertical	9.895	3.0159	63.8	PASS
2	Y	Front	35° off vertical	9.982	3.0424	72.2	PASS
3	Y	Back	20° off vertical	10.269	3.1300	66.9	PASS
4	Y	Back	20° off vertical	9.963	3.0368	65.6	PASS
5	Y	Left	30° off vertical	9.954	3.0341	59.8	PASS
6	Y	Left	30° off vertical	10.069	3.0692	61.5	PASS
7	Y	Right	30° off vertical	10.004	3.0491	58.9	PASS
8	Y	Right	30° off vertical	10.010	3.0510	61.1	PASS
9	Y	Crown	90° off horizontal	10.338	3.1511	56.6	PASS
10	Y	Crown	90° off horizontal	10.007	3.0502	54.4	PASS
11	Y	Left Nape	0° off vertical, rolled 25° left	10.004	3.0493	68.2	PASS
12	Y	Left Nape	0° off vertical, rolled 25° left	10.091	3.0758	68.2	PASS
13	Y	Right Nape	0° off vertical, rolled 25° right	10.057	3.0654	65.1	PASS
14	Y	Right Nape	0° off vertical, rolled 25° right	10.045	3.0618	67.3	PASS
•	formed in accordance with	the specification re	equirements listed above. T	est results pro	perly reflect t	he performance of the	listed
Notes:	e (i.e. paint chipping, cracki in-line with the lowest point		<u>YES</u> celerometer.	NO X			
	r <u>ith</u> pads, suspension / rete roud and side rails were r		•				
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