BLUNT IMPACT PROTECTION

NTS-Chesapeake Testing

4603B Compass Point Road Belcamp, MD 21017

Manufacturer: HardHead Veterans

Client: HardHead Veterans

Inspection Requirement

Project No.: PR151301-1
Test Date: 12/8/2021
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Sample ID: Hard Head-03

Sample

Size: Medium Model: TBI
Weight: 2.34 lbs. Mfg. Date: NA
Color: Green Lot No.: NA

TBH (High cut) NA Date Received: 12/6/2021 Via: UPS

Returned: UPS

Setup

Impact Type: Impact Uni-Axial Time (
Drop Mass: 6.044 kg Ter
Mount Size: D.O.T. C
Mount Type: FMVSS218 Co

Time Gate Flag: 25.32 mm
Temperature: 67.5 °F
Humidity: 49.2 %
Conditioning: Ambient

Tester: Johnathan Harris Recorder: Johnathan Harris Filtering: CFC 1000 1650Hz Sensitivity: 10.83 mV/G

Applicable Standards or Procedures

Inspection

(1) AR/PD 10-02 Rev. A

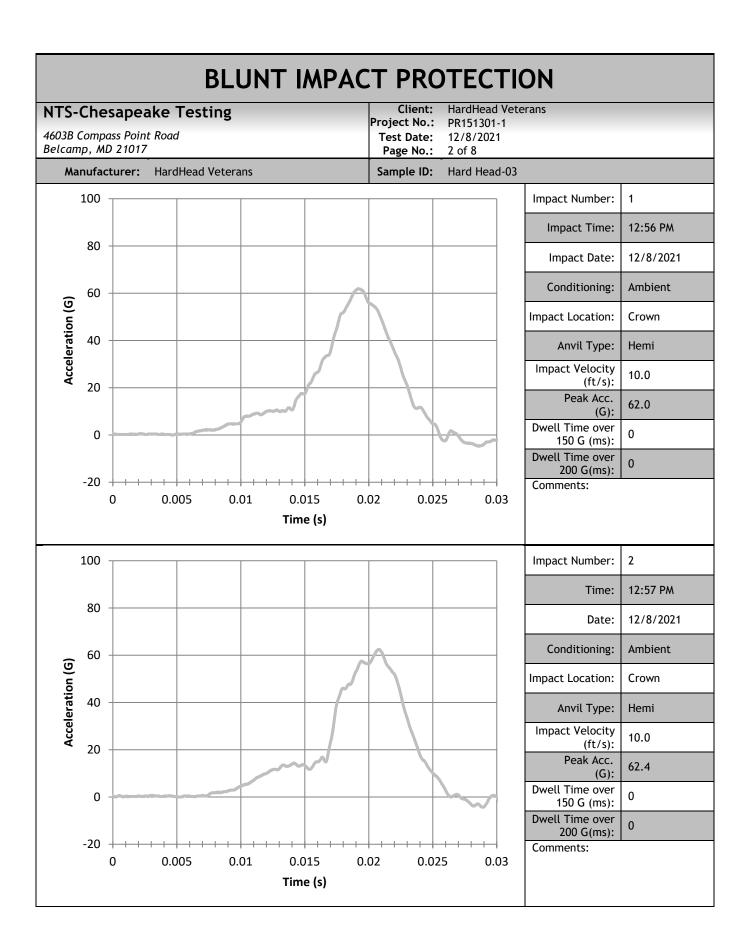
(2) Customer Request

Requirement

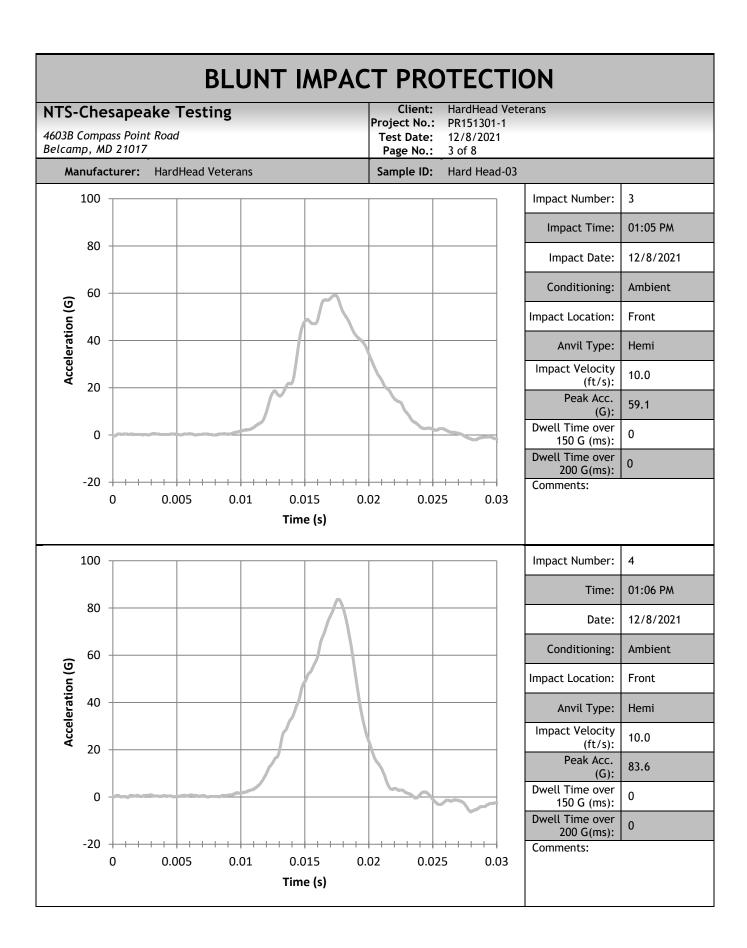
Number	Pas	ss/Fail							
1		NA	There shall be no physical damage to the helmet shell such as shell fracture, defined as a separation/split of the ballistic material through the entire thickness of the helmet shell, or indentation depth in excess of 0.2 inches present after impact testing (delamination and ply separation are permitted).						
2		Pass	There should be no damage to any part of the retention system or pad system.						
Impact Number	Impact Location	Pass/Fail Criteria <150 G	Peak Acc. (G)	Impact Velocity (ft/s)	Drop Height (in)	Strike Energy (J)	Head Injury Criteria (HIC)	Severity Index (SI)	Impact Deformation (in)
1	Crown	Pass	62.0	10.0	19.9	28.2	87.0	115.0	Not
2	Crown	Pass	62.4	10.0	19.9	28.1	97.0	121.0	Available
3	Front	Pass	59.1	10.0	19.9	28.2	85.0	107.0	Not
4	Front	Pass	83.6	10.0	19.9	28.1	127.0	184.0	Available
5	Rear	Pass	66.3	10.0	19.9	28.3	93.0	127.0	Not
6	Rear	Pass	70.1	10.1	19.9	28.4	102.0	135.0	Available
7	L Side	Pass	63.1	10.0	19.9	28.3	90.0	113.0	Not
8	L Side	Pass	61.5	10.0	19.9	28.1	101.0	128.0	Available
9	R Side	Pass	63.8	10.1	19.9	28.4	100.0	128.0	Not
10	R Side	Pass	74.2	10.1	19.9	28.4	115.0	162.0	Available
11	L Nape	Pass	81.6	10.1	19.9	28.4	131.0	189.0	Not
12	L Nape	Pass	78.9	10.0	19.9	28.3	137.0	189.0	Available
13	R Nape	Pass	80.9	10.1	19.9	28.4	137.0	184.0	Not
14	R Nape	Pass	75.5	10.0	19.9	28.2	122.0	175.0	Available

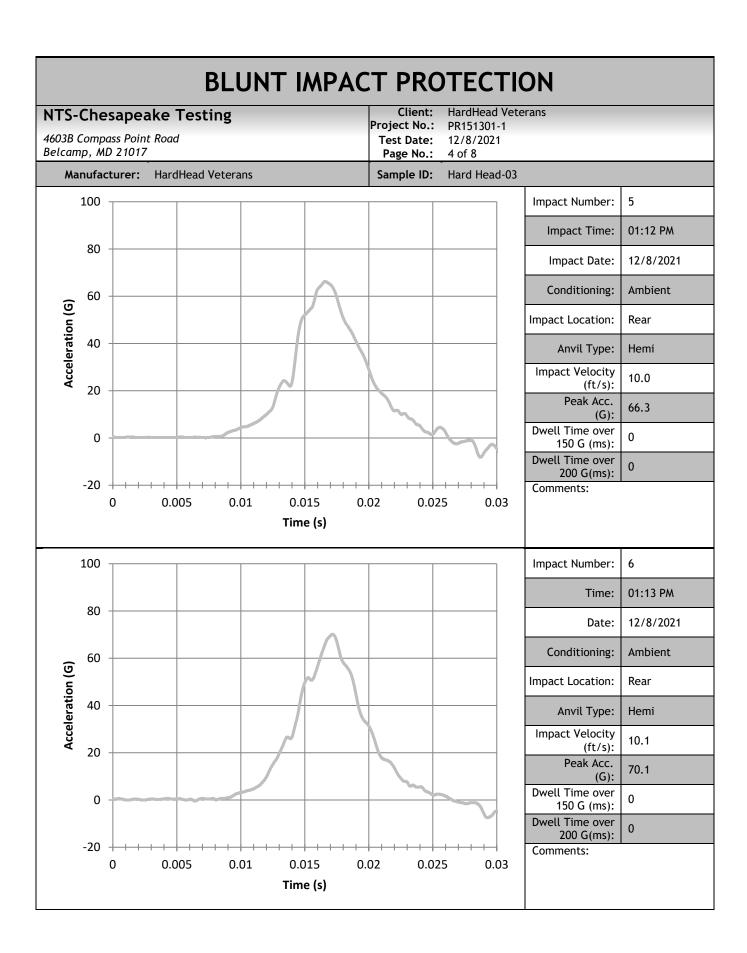
Remarks:

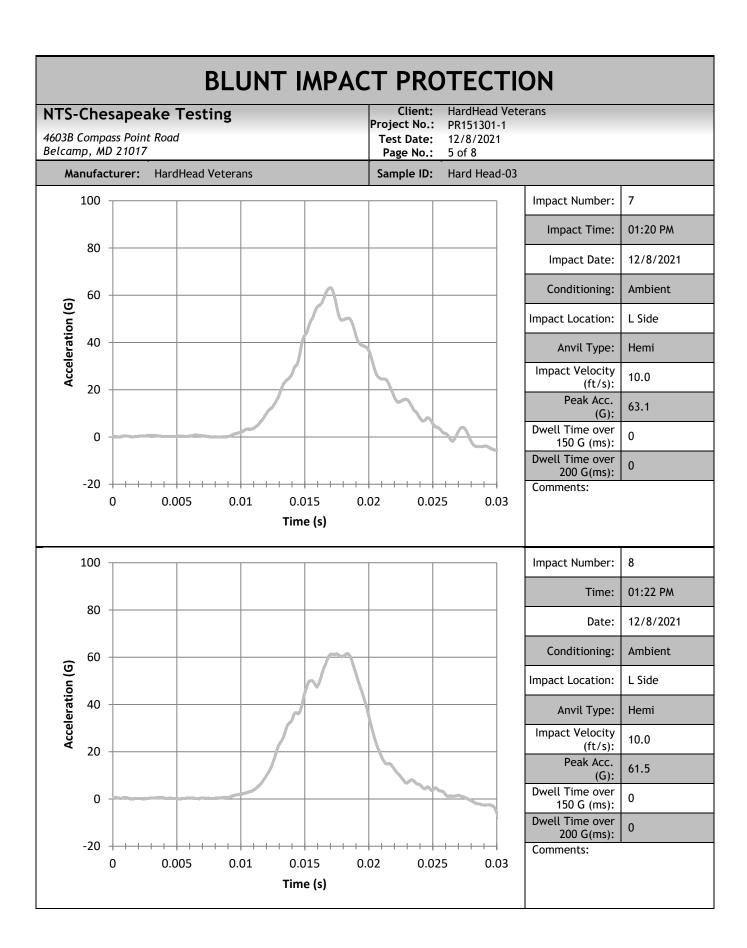
The Head Positioning Index (H.P.I) was defined at 2.5 inches and measured from the brim of the helmet to the basic plane on the headform for all impacts.

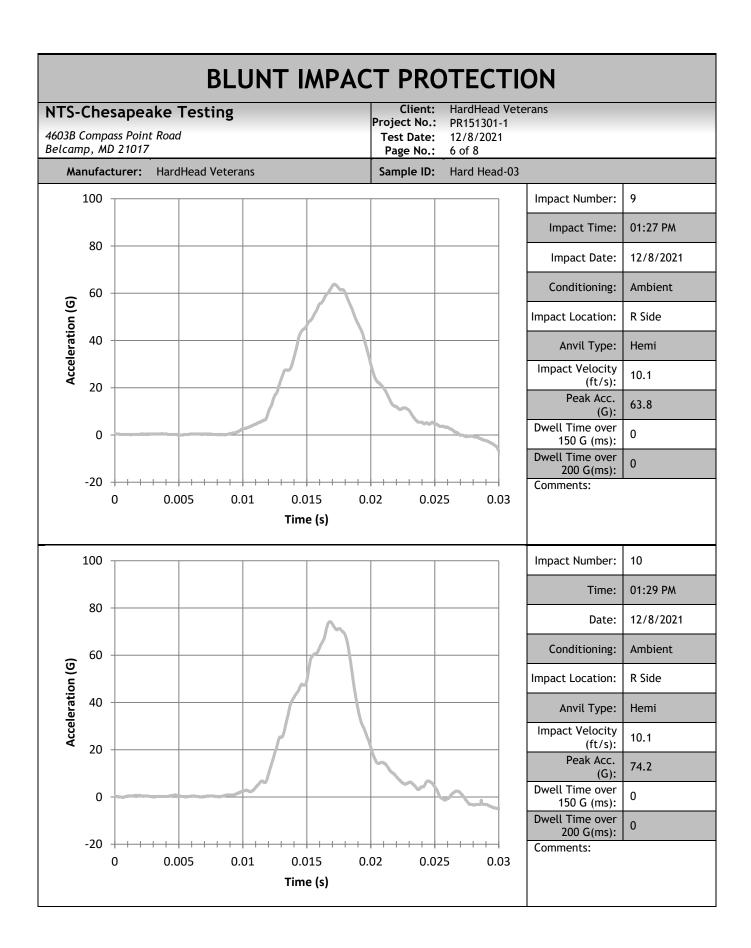


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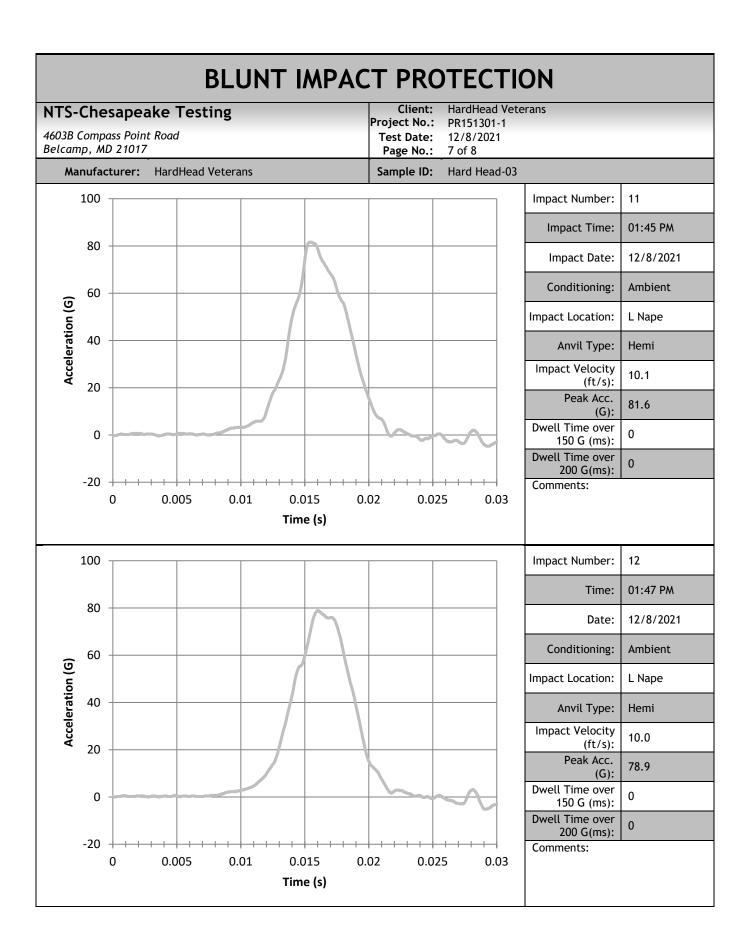








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