



15 September 2020

Merit Apparel  
 105 Venetian Blvd  
 Ste E St Augustine, FL 32095

Attention: Mr. Rob Hamers

**Subject: Merit Apparel, DOI USFS Certification of Merit Helmets MACH 1 Helicopter Helmet – Size L: Job No. 21417-007, Tested 8-9 September 2020**

Dear Mr. Hamers:

Please find enclosed a report documenting the subject test series conducted by NTS-Chesapeake Testing on 8-9 September 2020. NTS Chesapeake is an A2LA accredited laboratory to ISO/IEC 17025:2017 (Certificate No.: 0214.55) for DOI USFS Aviation Helmet Standard Testing. The table below details the compliance of the Merit Helmets MACH 1 Helicopter Helmet – Size L with the applicable performance requirements of DOI/USFS Aviation Helmet Standard Specification, Version 4.3, dated November 12, 2019. Detailed data sheets for each test section can be found in Appendix A.

Test	Helmet				
	A	B	C	D	E
6.1 Headform Selection	Size J	Compliant			Compliant
6.2 Test Line	Size J				
6.3 Conditioning	Ambient	Low	High	Compliant	Compliant
6.4 Positional Stability	Compliant	Compliant			
6.5 Impact Attenuation	Compliant	Compliant	Compliant		
6.6 Static Strength Testing, Retention System	Compliant	Compliant	Compliant	Compliant	Compliant
6.7 Heat Exposure Testing	Compliant				
6.8 Adhesion of Shell Edge Covering					
6.9 Sound Attenuation	Compliant			Compliant	
6.10 Communication Equipment Talk-Listen					

This report shall not be used to claim product certification, approval or endorsement. The results of the testing relate only to the samples submitted for testing. This test report shall not be interpreted as an endorsement by NTS-Chesapeake Testing as to the continued quality or performance of any items of the same or similar design.

The information contained in this report may be subject to the provisions of the Export Administration Act (50 USC 2401 et seq.), the Export Administration Regulations (15 CFR 768-799), or the U.S. Arms Export Control Act (22 USC 2778 et seq.) and the International Traffic in Arms Regulations (22 CFR 120-130). These statutes and regulations impose restrictions on import, export and transfer to foreign entities and persons, whether within the U.S. or abroad, of certain data and articles without approved licenses from the U.S. Department of State and/or the U.S. Department of Commerce.

NTS-Chesapeake Testing is an independent testing facility and has no affiliation with Merit Apparel.

A full product description can be found below:

**PRODUCT DESCRIPTION:**

Merit Helmets-MACH 1 Helicopter Helmet; size L (57-60 cm)

- Date of Manufacture: June 2020
- Visor: Dual Integrated Visors Manufactured by MSA June 2020
- Sound Attenuation: Merit Helmet PN. MACH 1: 2020
- Communications: Merit Helmet PN MACH 1: 2020
  - 4 ft cord, 300 OHM speakers, electret mic

If you have any questions related to this test, please call Mr. Mike Hinder at 410-297-8154 or contact him via e-mail at [mike.hinder@nts.com](mailto:mike.hinder@nts.com).

Sincerely,



Chris Schueler  
General Manager, NTS-Chesapeake Testing

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Enc. a/s

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