



DLA
DEFENSE LOGISTICS AGENCY
Established 1961



The Nation's Combat Logistics Support Agency

DLA Clothing & Textiles Ballistic Helmets

Raymond Jacquette
IST Supervisor, Safety Team
Nov 18, 2021

WARFIGHTER ALWAYS



Product Line Overview

- Safety Team Stats

- Overall manage approx. 900 different items

- Items include:

- Ballistic Helmets and components (Retention Systems, Pad (Suspension) Systems, Covers)
 - Flyers Helmets and components (Visors, Chin Straps, ...)
 - Anti-G Garments
 - Anti-Exposure Garments

- Sales

- FY 21 - \$67.7M
 - FY 20 - \$82.0M
 - FY 19 - \$79.0M
 - FY 18 - \$79.1M





Open Procurements

- ACH Gen II – under evaluation. Project award of Group 1 in Dec 2021, Group 2 approximately May 2022.
- ACVC – under evaluation. Project award Dec 2021
- ACH Suspension Pad Sets (mandatory source / Ability One)



Upcoming Opportunities

- ACH Covers (OCP) – (Mandatory Source / Ability One)
 - Proposed issue 2nd Qtr FY '22
- ECH Helmets – Full and Open.
 - Proposed issue 2nd Qtr FT '22
- IHPS
 - Covers (Mandatory Source / Ability One)
 - Helmets
 - Other Components (Side Rails / Shield / Mandible)



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**Product Manager
Soldier Protective Equipment**

**PRECISION
is the Standard**

Every Ounce Matters, Every Bullet Counts

Product Manager Soldier Protective Equipment (PM SPE) Joint Advanced Planning Brief to Industry *Head Protection Session*

LTC Stephen Miller
Product Manager
Soldier Protective Equipment

18 Nov 21

Sarah Coleman
Deputy Product Manager
Soldier Protective Equipment



Agenda



- **Opening Remarks**
- **Mission, Vision, and Priorities**
- **Next Generation Integrated Head Protection System (NG IHPS)**
 - **Product Overview**
 - **Solicitation Timeline**
 - **Solicitation Requirements**
 - **Technical Requirements**
- **IHPS Visor and Mandible**
 - **Product Overview**
 - **Solicitation Timeline**
 - **Solicitation Requirements**
 - **Technical Requirements**





Mission, Vision, and Priorities



Mission

To increase the Warfighter's lethality and mobility by optimizing Soldier protection and effectively serving as the Lifecycle Manager for all personal protective equipment

Vision

To continuously improve Soldier Survivability by delivering the right equipment, to the right Soldier, at the right time

Principles

- User Driven
- Continuously Improved
- Supportable Cradle to Grave
- Timely
- Fiscally Responsible

Priority 1 – Deliver Capability

- Right Soldier, right time, right place
- Support RFI
- Support delta fieldings as required – e.g. 82nd, SFAB
- Carry forward virtual operations lessons learned into routine practice
- Continue to work with Stakeholders to increase helmet level protection and reduce weight
- Stakeholder relationships

Priority 2 – Personnel Care

- Build the team
- Encourage team members to pursue professional development opportunities
- Recognize, reward, and promote
- Continuously improve operational environment for teammates– encourage maximum leave, minimize early/late meetings, share the load wherever possible

Priority 3 – Improve and Innovate

- Continuous collaboration
- Pursue inter-service efforts
- Support Industry and S&T partners
- Seek and incorporate user feedback, both deliberately (HFEs) and through opportunity (Stakeholder engagement)





NG IHPS Product Overview



The Next Generation Integrated Head Protection System (NG IHPS) Helmet is a program initiated by the Army and driven by advancements in ballistic material.

Design Overview:

- Same design as the currently procured IHPS helmet with increased ballistic protection
- No-Hole design: retention system and Night Vision Device (NVD) bracket mounted without the use of a through hole.
- Compatible with the Product Manager Soldier Maneuver Sensors (PdM SMS) Universal Helmet Mount Assembly (uHMA)
- Finished helmet consists of:
 - Helmet shell
 - Retention System (same as IHPS – Ability One mandate procurement)
 - Suspension System (same as IHPS – Ability One mandate procurement)
 - Cover (same as IHPS – Ability One mandate procurement)
 - Non-Powered NVD Bracket PVS-7/14 Compatible
 - Left and Right Rail (same design as IHPS)





NG IHPS Solicitation Overview



- Timeline:
 - 2QFY22: Publish NG IHPS Full and Open Contract Solicitation
 - 3QFY22: Deadline for Industry Proposals (45 days after solicitation)
 - 1QFY23: Contract award (minimum First Article Testing (FAT))
 - 3QFY23: FAT samples due to Aberdeen Test Center (ATC) (120 days after contract award)
 - 1QFY24: First lot due to Defense Contract Management Agency (DCMA)
- Solicitation Parameters:
 - Submitted proposals will be paper based only (no Production Demonstration Model (PDM) samples)
 - Down-selection will be based on review of paper proposals and plant visits
 - Vendors that demonstrate design and manufacturing maturity will have an advantage:
 - Test data recommended but not required (no proof of design maturity without test data)
 - Technology readiness levels
 - Production capabilities
 - Quality Management





NG IHPS Delivery Orders Overview



- Only Vendors who pass FAT will be considered for Delivery Orders
- Vendors who fail FAT are allowed to re-FAT
 - Re-FAT test and sample costs are fully covered by respective Vendor
- Delivery Orders quantities will be based on availability of funding
- Delivery Orders will be competed via Fair Opportunity procedures to Vendors who pass FAT
- Vendors who pass a re-FAT will have the opportunity to compete for the next fair opportunity Delivery Order option





NG IHPS Technical Requirements (Summary)



IHPS and NG IHPS Requirements

Requirement	IHPS	NG IHPS
Weight	Same	Same
Fragmentation	Same	Same
9mm RTP	1,400 fps	Not Required
9mm BTB	R/L/C: 17.1 mm F/B: 26.5	Not Required
Threat M RTP	Same	Same
Threat P RTP (FAT/LAT)	NA	2,400 fps at 0°, 20°, and 40° obliquities
Threat P V ₅₀ (FAT)	NA	0° Obliquity (based on funding)
V ₅₀ FRAG	2, 4, 16, 17, 64-grain	Same
V ₅₀ FRAG High Speed (FAT)	NA	17-grain (Reference Only)
V ₅₀ FRAG High Speed (LAT)	NA	17-grain (compare against FAT)
Blunt Impact	Same	Same





NG IHPS Technical Requirements



Process for new Retention and Suspension System Design Considerations

- New (proposed) design must provide benefit over current systems
 - Increased protection
 - Lower weight
 - Increased comfort
 - Lower cost
 - No negative effect on helmet real-estate
- Interested vendors are responsible for acquiring helmets and performing FAT level testing at ATC
- Demonstrate production relationship with Ability One
- Army Contracting Command (ACC) Contracts: Government will not procure directly from vendors; vendors need to establish a contractual relationship with helmet manufacturer(s)
- DLA Contracts: will establish fair opportunity procedures with competed delivery orders





Visor and Mandible Product Overview



- Design Overview:
 - Same design as the current IHPS mandible and visor
 - Compatible with the PM SMS universal Helmet Mount Assembly (uHMA)
- Visor consists of:
 - One size fits all IHPS and NG IHPS helmets
 - Visor Frame
 - NVD Mount (IHPS, NG IHPS and uHMA compatible)
 - Lens (to meet requirements delineated in AR/PD 17-05)
- Mandible consists of:
 - Two size compatible with (1) IHPS SM/MD/LG and (2) XL
 - Attaches to IHPS and NG IHPS Rails
 - Interoperable with IHPS Visor





Visor and Mandible Solicitation Overview



- Timeline:
 - 2QFY22: Publish Mandible and Visor F&O contact solicitation
 - 3QFY22: Deadline for Industry proposals
 - 1QFY23: Contract award (minimum FAT)
 - 2QFY23: FAT samples due to ATC
 - 3QFY23: First lot due to DCMA
- Solicitation Parameters:
 - Vendors to provide test data from ATC as part of proposals
 - Mandible: 17-gr V_{50} , Blunt Impact, Area of Coverage
 - Visor: 17-gr RTP, Blast Protection, Optical Requirements, Area of Coverage
 - Vendors to provide PDM samples to Program Office for evaluation as part of proposal
 - Down-selection will be based on review of test data, PDM samples, and paper proposals (Quality Management Plans, Small Business Participation, Past Performance, and Price)
 - Vendors can issue proposals for either mandible or visor, or both mandible and visor





Visor and Mandible Technical Requirements (Summary)



Component	Requirement	Requirement Definition	
Mandible	Weight	1.05 lbs (all sizes)	
	Fragmentation (V_{50})	17-gr at 1,850 ft/sec (A, H, C, SW)	
	Blunt Impact	15 g max at 5 ft/sec (A, H, C)	
	Blunt Impact Deflection	1.0 inches max at 5 ft/sec (A, H, C)	
Visor	Weight	0.45 lbs (visor), 0.25 lbs (sleeve)	
	Fragmentation (RTP)	17-gr at 580-590 ft/sec (A, H, C, SW)	
	Blast Protection	14 psi shock tube simulated	
	Optics	Distortion	
		Luminous transmittance	
		Ultraviolet absorption	
		Neutrality	
Chromaticity			

