



DLA
DEFENSE LOGISTICS AGENCY
Established 1961



The Nation's Combat Logistics Support Agency

DLA Clothing & Textiles Ballistic Helmets

Jennifer Scarpello
IST Chief
Safety Gear Team
November 17, 2022



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 22 - \$66.2M
 - FY 21 - \$67.7M
 - FY 20 - \$82.0M
 - FY 19 - \$79.0M





Open Procurements

- Enhanced Combat Helmet (ECH) - Full & Open 4-year Tier Indefinite Delivery, Indefinite Quantity (IDIQ) contract – under evaluation; Projected award approximately January 2023
- ACH Suspension Pad Sets - Mandatory Source w/ Ability One – IDIQ contract Base + 4 twelve month options - Projected award Mid-November 2022
- Cover, Helmet ACH – Mandatory Source w/ Ability One – Five (5) Year Tier Contract – Projected award approximately March 2023
- Integrated Helmet Protection System (IHPS) Helmet Cover – Mandatory Source w/ Ability One – IDIQ Three (3) Year Tier Contract – Projected award approximately January 2023



Upcoming Opportunities

- Advanced Combat Vehicle Crewman's Helmet (ACVC-H) Liner – Full & Open – Fixed Quantity (15,000 units) – Solicitation April 2023
- Integrated Head Protection System (IHPS) Modular Helmet Next Generation – Full & Open - Solicitation Issue 2Q2023
- Integrated Head Protection System (IHPS) Night Vision Bracket & Rail Assembly – Full & Open – Solicitation Issue 2Q2023
- Improved Retention System (IRS) for ACH – Mandatory Source w/ Ability One - Indefinite Delivery, Indefinite Quantity (IDIQ) Three (3) Year Tier Contract – Solicitation Issue November 2022
- IRS for Enhanced Combat Helmet (ECH) – Mandatory Source w/ Ability One – IDIQ Three (3) Year Tier Contract – Solicitation Issue November 2022



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Questions
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CUI



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*

Controlled by: PEO SOLDIER
CUI Category: OPSEC
Distribution Statement B
Limited Dissemination Control: FEDCON
POC: Alex De Groot, 703-919-2161

LTC Stephen Miller
Product Manager
Soldier Protective Equipment

16-17 November 2022

CUI

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 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
- Weight adjustments to 'normalize' areal density by size
- No-Hole design: retention system and NVD bracket mounted without the use of a through hole.
- Compatible with the PM 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, no-hole NVD Bracket PVS-7/14 Compatible
 - Left and Right Rail





NG IHPS Solicitation Overview



Timeline:

- 1QFY23: Publish NG IHPS Full & Open Contract Solicitation
- 2QFY22: Deadline for Industry Proposals
- 3QFY23: Contract Award (minimum FAT)
- 1QFY24: First Article Test (FAT) samples due to Aberdeen Test Center (ATC)
- 3QFY24: First lot due to Defense Contract Management Agency (DCMA)

Solicitation Parameters:

- Submitted proposals will be paper based only (no 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 Comparison

Requirement	IHPS	NG IHPS
Weight	Same	Updated in new PD
9mm RTP	1,400 fps	Not Required
9mm BTD	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:

- 2QFY23: Publish Mandible and Visor F&O Contact Solicitation
- 2QFY23: Deadline for Industry Proposals
- 4QFY23: Contract Award (minimum FAT)
- 1QFY24: FAT samples due to ATC
- 3QFY24: First lot due to DCMA

Solicitation Parameters:

- Vendors to provide test data from ATC as part of proposals
 - Mandible: 17-gr V₅₀, 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



Mandible and Visor 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			



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