



Product Manager

Soldier Protective Equipment

The Soldier

Our Strength and Purpose

Product Manager Soldier Protective Equipment

**Pre-Solicitation Meeting for GEN II ABS
(Generation II Advanced Bomb Suit)**

Soft Armor & ACC-APG

15 October 2015

LTC Kathy M. Brown
Product Manager
Soldier Protective Equipment

Daniel R. Kitts
Deputy Product Manager
Soldier Protective Equipment



Purpose

To communicate details of the pending solicitation and technical requirements of the Gen II ABS



Agenda

- Opening Remarks & Introductions
- GEN II ABS Overview (Strategy, Objectives, and Intent)
- Solicitation & Contract Overview
 - Contract Type
 - Solicitation Details
- Evaluation Factors
 - Price / Small Business / Past Performance (ACC-APG)
 - Workmanship / Quality Assurance (Quality Assurance Rep)
 - Delivery (Acquisition Support)
 - Technical (Engineer)
- Technical Requirements Overview
- Breakout Sessions (ACC-APG, Soft Armor, and Govt. Reps)



Government Representatives

Army Contracting Command - Aberdeen Proving Ground (ACC-APG)

PM SPE

Ms Carol Tyree
Contact Officer

Karen Gibson
Contract Specialist

LTC Kathy Brown
Product Manager, Soldier
Protective Equipment

MAJ Chris Getter
APM, Soft Armor

Millie Alvarez
QA Specialist

Matt Adams
Engineer

Dave Holland
System Acquisition Specialist

Introductions Around the Room – Other Government Representatives
and Industry Partners

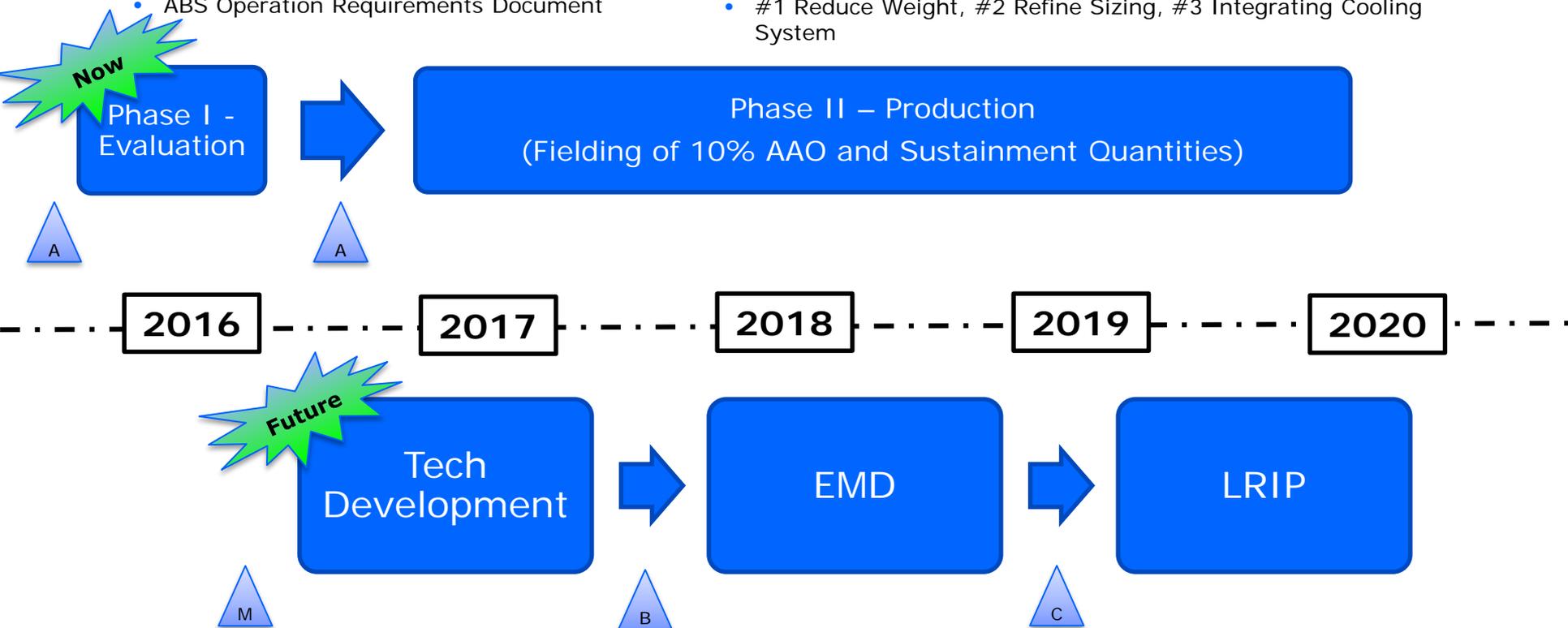


Strategy & Objectives

(Army's Bomb Suit Roadmap)

Generation II Advanced Bomb Suit (GEN II ABS)

- Continuous Technology Refreshment
- ABS Operation Requirements Document
- Non-Developmental Item
- #1 Reduce Weight, #2 Refine Sizing, #3 Integrating Cooling System



Next Generation Advanced Bomb Suit (NGABS)

- Developmental Program
- Draft CDD (projected 1QFY16)
- Modular, Scalable, and Mission Tailorable System
- Low Light Level Operations (Sensor & Display)

 = Decisions or Awards Note – Graphics for Conceptual Understanding Only



GEN II ABS Intent

- Purpose – Provide a rapid increase in EOD Technician capability with minimal programmatic risk.
 1. Weight Reduction 10-40%
 2. Sizing Enhancement
 3. Cooling System
- Key Tasks –
 1. Continuous Technology Refreshment (Procurement & Sustainment)
 2. NDI (Reduced Cost, Schedule, and Performance Risk)
 3. Best Value with Price Trade-Off (Weight & Soldiers' Ratings Most Important)
 4. Communication, Timeline, and Quality
- End State – At the end of the Phase I Evaluation contract, the contractor whose the highest rated (HFE), FAT approved, GEN II ABS (price tradeoff) will be awarded a Requirements contract to begin production for 153 GEN II ABS systems and be postured to produce up to 1,385 systems over four years.

UNCLASSIFIED



U.S. Army Contracting Command



Generation II Advanced Bomb Suit (Gen II ABS) Solicitation W91CRB-16-R-0002 Review

**Carol Tyree, Contracts Officer
Karen Gibson, Contract Specialist
15 October 2015**



ACC-APG

CONTRACT TYPE



CONTRACT TYPE / CLIN STRUCTURE

Phase 1 Contract Type

Firm Fixed Price "C" Contract

Up to three (3) FFP awards:

- CLIN0001 Technical Data Package
- CLIN0002 Human Factors Evaluation (HFE)/
Use and Care Manual
- CLIN0003 (Option) Characterization/FAT. This option will only be exercised for up to two (2) awardees.

Phase 2 Contract Type

Firm Fixed Price Requirements Contract with four (4) year period of performance

One (1) award:

- CLIN 0001 GEN II ABS Systems, qty. 153, Army Fielded
- CLIN 0002 GEN II ABS Systems, qty. 1,385, Fielded to other branches.
Requirements delivery orders issued throughout period of performance as need arises.

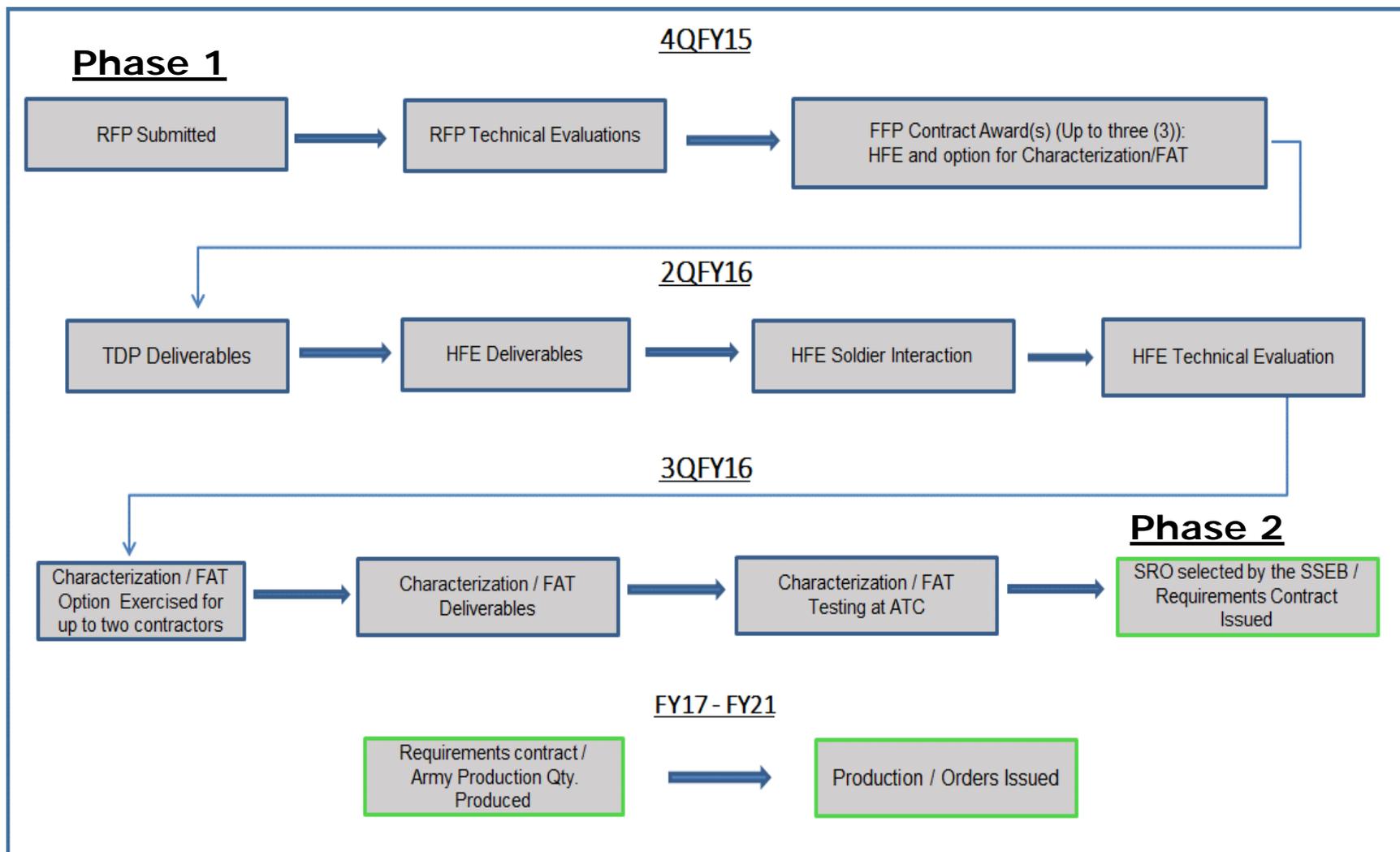


ACC-APG

SOLICITATION OVERVIEW



“Continuous Technology Refreshment” GEN II ABS Two Phase Approach





Evaluation Factors: Phase I Initial Award

- Technical – 14 Sub-factors
- Workmanship – 6 Sub-factors
- Quality Assurance
- Past Performance
- Small Business Participation – 2 Sub-factors
- Delivery
- Price – Phase 1 Deliverables and Phase 2 Production Quantities



Evaluation Factors: Phase I Initial Award Technical

- Technical Proposal
 - Gen II ABS product samples
 - Offerors shall submit Test Documentation, Technical Narrative, Technical White Paper
 - Offerors shall address compliance with Buy American Act/Berry Amendment
 - Acceptable/Unacceptable (Pass/Fail)
- Bomb Suit Sub-Component Sub-Factors:
 - Sub-Factor 1: Design (PASS/FAIL)
 - Sub-Factor 2: Sizing (Suit and Helmet) (PASS/FAIL)
 - Sub-Factor 3: Area of Coverage (PASS/FAIL)
 - Sub-Factor 4: Bomb Suit and Helmet Weights (Color Rating Table 2)
 - Sub-Factor 5: Ballistic Data (Color Rating Table 3)
 - Sub-Factor 6: Fragmentation Protection (PASS/FAIL)
 - Sub-Factor 7: Blast Overpressure Protection* (PASS/FAIL)
 - Sub-Factor 8: Impact Protection (PASS/FAIL)
 - Sub-Factor 9: Flame/Heat Protection** (PASS/FAIL)
 - Sub-Factor 10: Laundering (PASS/FAIL)
 - Sub-Factor 11: Secure Fastening (PASS/FAIL)
 - Sub-Factor 12: Donning/Doffing (PASS/FAIL)
 - Sub-Factor 13: Seam Test (PASS/FAIL)
 - Sub-Factor 14: Outer Facing Cloth (PASS/FAIL)



Evaluation Factors: Phase I Initial Award Workmanship

- Workmanship Proposal
 - Gen II ABS systems shall be of high quality construction as specified in the SOW and TSN
 - Offerors shall submit a Workmanship Narrative addressing the six (6) sub-factors
 - Offerors shall submit a recommendation on a realistic service life
 - Acceptable/Unacceptable (Pass/Fail)
 - Sub-factors
 - Sub-Factor 1: Stitching (PASS/FAIL)
 - Sub-Factor 2: Seams (PASS/FAIL)
 - Sub-Factor 3: Thread (PASS/FAIL)
 - Sub-Factor 4: Seam Allowance (PASS/FAIL)
 - Sub-Factor 5: Ballistic Pocket/Panel (PASS/FAIL)
 - Sub-Factor 6: Bartacks (PASS/FAIL)



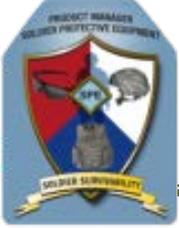
Evaluation Factors: Phase I Initial Award Quality Assurance

- Quality Assurance Proposal
 - ISO QMS Compliance
 - Quality Management System
 - Quality Manual
 - Cross-Walk Matrix
 - Subcontractor and Supplier Management Plan
 - Strategy
 - Rating System
 - Submission Requirements
 - Acceptable/Unacceptable (Pass/Fail)



Evaluation Factors: Phase I Initial Award Past Performance

- Past Performance Proposal
 - Offeror submits references for three (3) similar or related contracts performed by them and/or their subcontractors within the last three (3) years.
 - Acceptable/Unacceptable (Pass/Fail)



Evaluation Factors: Phase I Initial Award Small Business

- Small Business Proposal
 - This factor evaluates the Offeror's approach to maximizing opportunities for small businesses in the proposed effort, both in terms of the percentage of overall contract value (Sub-Factor 1: SB Participation Plan) and in terms of the percentage of the subcontracted portion's value (Sub-Factor 2: SB Subcontracting Plan).
 - Offerors shall submit narrative in accordance with the solicitation requirement which addresses the Small Business Participation Plan and the Subcontracting Plan.
 - Acceptable/Unacceptable (Pass/Fail)



Evaluation Factors: Phase I Initial Award Delivery

- Delivery Proposal
 - The Government will evaluate the Offeror's ability to deliver IAW the stated requirements of the RFP
 - Pre-HFE TDP (CLIN 0001) due fifteen (15) days ACA
 - HFE deliverables (CLIN 0002) due sixty (60) days after ACA and approval of Pre-HFE TDP
 - If exercised, Characterization/First Article (CLIN 0003) due sixty (60) days after option exercised.
 - Initial Production quantities (CLIN 0003) due sixty (60) days after FAT Approval
 - Acceptable/Unacceptable (Pass/Fail)



Evaluation Factors: Phase I Initial Award Price

- Price Proposal
 - The Government will evaluate the Offeror's ability to deliver IAW the stated requirements of the RFP
 - Offeror shall provide FOB destination, FFP pricing, unit and total, for each Phase I contract CLINs 0001-0003.
 - Offeror shall also provide FOB destination, FFP pricing, unit and total, for the production quantity of Gen II ABS', 1,538 systems, which will be awarded under the Phase 2 production contract.
- Fair and reasonable



Evaluation Factor: Phase I Contract Performance HFE/UE

- During contract performance of CLIN 0001, a Human Factors Evaluation to assess the form, fit, comfort, wear, durability and will be conducted with EOD Technicians.
- EOD Technicians will also validate the Use and Care Manual
- The eight (8) specific features/criteria that will be evaluated are:
 - Comfort
 - Freedom of movement
 - Compatibility with uniform, other body armor components and equipment
 - Ease of donning and doffing;
 - Minimization of heat retention
 - Minimization moisture retention
 - concealability under military uniforms and/or civilian attire
 - Overall suitability for use.
- During the HFE/UE, each Soldier will conduct each event while wearing a different candidate's Gen II ABS system. During the HFE/UE, every candidate's Gen II ABS system will be evaluated.
- Rank Ordered
- Down select to two (2) Awardees for exercise of Option CLIN 0002 for Characterization/FAT



Engineer

TECHNICAL REQUIREMENTS OVERVIEW



Evaluation Factors Technical

- 14 technical factors will be evaluated during source selection
- 7 require explanation in technical narrative of how suit will meet TSN.
 - Design, Size, Area of Coverage, Impact Protection, Laundering/Removable Ballistics, Donning/Doffing, and Electrostatic Discharge
- 7 require independent test data
 - Visor V50*, Chest V50*, Other Ballistic Protection*, Flame/Heat Protection, Suit Weight, Helmet Weight, Blast Protection**

*Reports must be from an NIJ certified lab

**Blast testing does not have to be IAW the TSN for proposal



Technical Color Codes

- 4 factors will be color coded
 - Weight of suit sized for 50th percentile male
 - Weight of helmet sized for 50th percentile male
 - 17gr V50 on face shield
 - 64gr V50 on blast shield

Gen II ABS Weights for Suit & Helmet

| | Red/Unacceptable | Yellow | | Green | | Purple | | Blue |
|---------------|------------------|--------|------|-------|-----|--------|-----|------|
| | Max | Min | Max | Min | Max | Min | Max | Min |
| Suit Weight | >52 | 52 | 50 | 49.99 | 47 | 46.99 | 42 | <42 |
| Helmet Weight | >12 | 12 | 11.5 | 11.49 | 11 | 10.99 | 10 | <10 |

Gen II ABS Ballistic Data for Suit & Helmet

| | Red/Unacceptable | Yellow | | Green | | Purple | | Blue |
|------------------------|------------------|--------|------|-------|------|--------|------|-------|
| | Max | Min | Max | Min | Max | Min | Max | Min |
| Face Shield 17 gr V50 | <2500 | 2500 | 2624 | 2625 | 2749 | 2750 | 3000 | >3000 |
| Blast Shield 64 gr V50 | <4020 | 4020 | 4220 | 4221 | 4420 | 4421 | 4820 | >4820 |



Summary

- GEN II ABS Overview
- Solicitation & Contract Overview
- Evaluation Factors
- Technical Requirements Overview



Questions