

Special Operations Forces Industry Conference

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Mr. Duke Dunnigan

System Acquisition Manager

Survival, Support, Equipment & Medical Systems (SSES)

Ground Combatant Systems –
Survivability, Ballistic, Weather, Medical



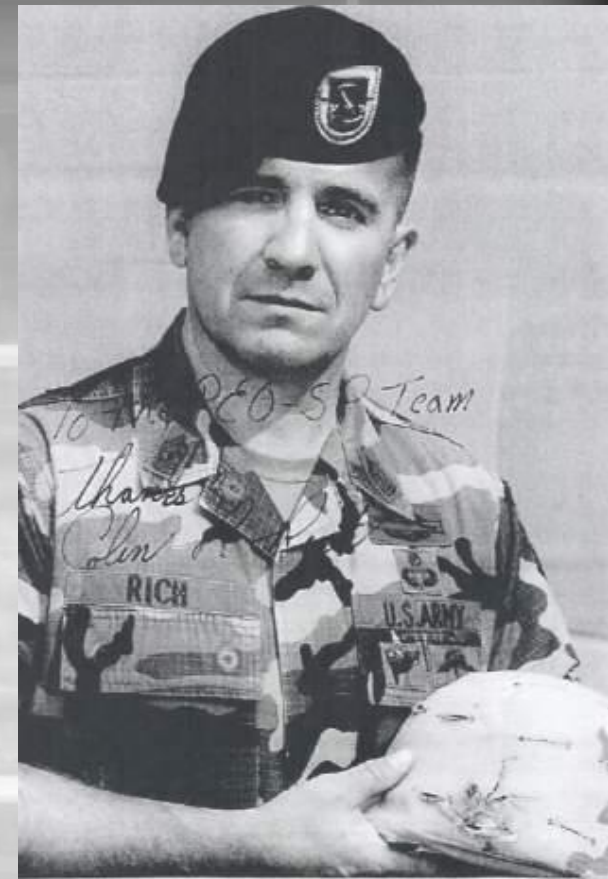
SOF Warrior

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SSES Mission

Develop, procure and sustain SOF-peculiar individual equipment and medical capabilities when Service-common solutions do not meet SOF requirements.

Provide operators a variety of equipment options they can tailor to their unique mission needs.



ISG Colin Rich
MICH Helmet Saved His Life
July 2004 Photograph

SOF WARRIOR



Acquisition Approach

- **Option 1: Maximize Service Common or COTS material solution**
 - Fastest, least expensive way to satisfy a new SOF requirement
 - Integrate SOF needs into Services' requirements/development process
- **Option 2: Modify Service Common or COTS material solution**
 - Minimum modifications/testing
 - Rapid fielding
 - Fastest way to develop a truly SOF-peculiar capability
- **Option 3: Develop and field a SOF-peculiar material solution**
 - Use only when above two options are not viable
 - Focused on SOF-peculiar missions
 - After fielding, transition to Services

SOF WARRIOR



SOF-SSES Program Management Focus Areas

Survivability Protection Systems

- Ballistics
- Lasers
- Environment (Geography and Weather)

Individual Clothing/Equipment

- Protect SOF Operator & Manage Load in Complex Environments

Tactical Combat Casualty Care

- Self/Buddy Aid
- Combat Medic Aid
- Casualty Evacuation

Integrated Logistics Support Cradle-to-Grave Support

- Fielding-Training-Sustaining-Maintaining-Modernizing-Disposing

Our SOF Operators are the focus of all our efforts to acquire, test, field, sustain, and improve USSOCOM Survival, Support, Individual Equipment & Medical Systems



SOF WARRIOR



SSES Portfolio

Survivability & Individual Equipment



Medical Equipment

Operator Kit



Medic Kit



Casualty Evacuation Kit



SOF WARRIOR



SSES FY10 Accomplishments

- **Acquired and Equipped:**
 - Over 3,900 Sets of Protective Combat Uniforms
 - Over 9,000 Sets of Third Generation Body Armor and Related Equipment
 - Over 6,400 Modular Integrated Communications Headsets for Ground and Maritime Applications
 - Over 13,900 SOF Unique Backpacks
 - Over 6,000 Operator First Aid Kits
 - Over 1,100 Medic Kits
- **CASEVAC Competition**
 - \$49M contract award; three vendors competing in FY11 down select
 - Provides enhanced life-saving capabilities for SOF operators between point of wounding and hospital care

SOF WARRIOR



Enduring SOF Acquisition Challenge

Scalable/Modular Systems
tailorable for SOF-unique missions

Low Visibility / Covert: Small team
survival depends on it

Diverse Environments: High
Altitude to Under Sea

Remote Operations: Systems must
enhance Self Sufficiency

Must balance with:

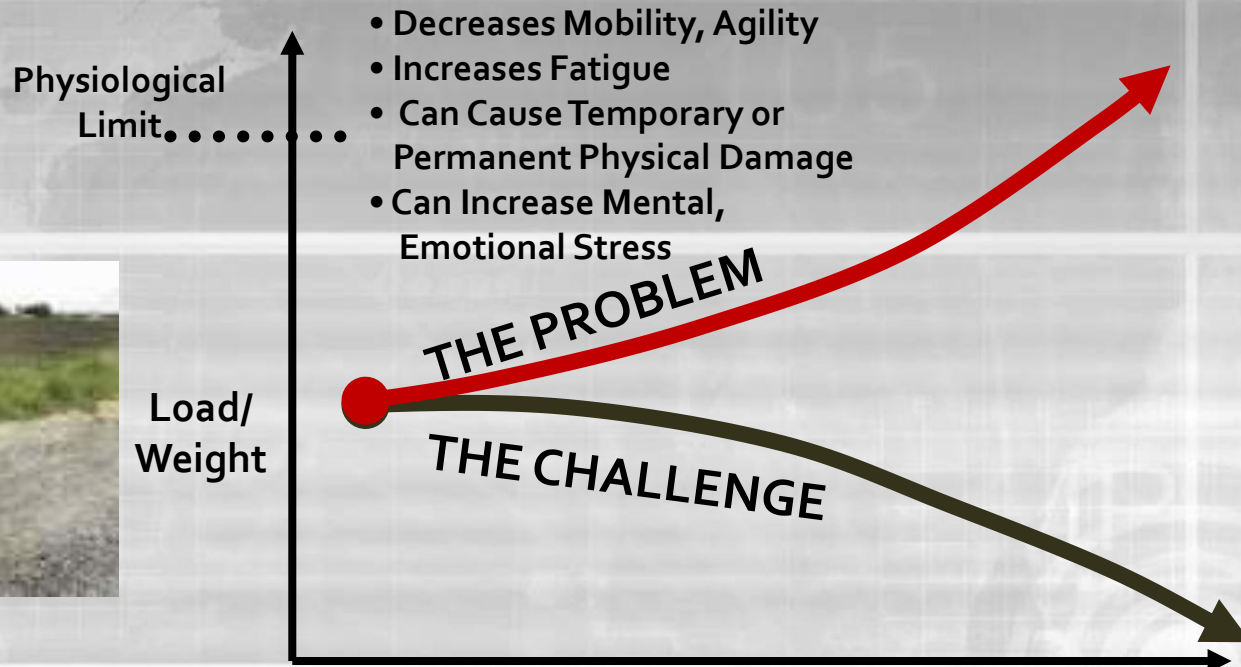
- Affordability
- Rapid Fielding
- Operator agility



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Operator /Medic Physical Load Challenge



"On the field of battle man is not only a thinking animal, he is a beast of burden. He is given great weights to carry. But unlike the mule, the jeep, or any other carrier, his chief function in war does not begin until the time he delivers that burden to the appointed ground...In fact we have always done better by a mule than by a man. We were careful not to load the mule with more than a third of his weight."

S.L.A. Marshall, The Soldier's Load and the Mobility of a Nation, 1950

SOF WARRIOR



Capability Gaps (1)

**1**

Technology Gap - Survivability

- Reduce Body Armor & Combat Helmet Weight
- Higher Strength, Lighter Weight Materials & Fabrics
- Modular, Scalable Designs
- Smart Sensors to Check Plates
- High Performance Helmet Pads
- Multi-spectral Eye Protection
- Transparent Shields Providing Rifle Ballistic Protection
- Man Portable Hide Sites to protect 5-Man Team From Visual, Near IR and Thermal Detection

1**2****3**

SOF WARRIOR



Capability Gaps (2)

2

Technology Gap
Individual Clothing & Equipment

Durability – Longer Lasting Fabrics

Stealth - Materials and Treatments That Defeat Existing IR Technologies & Have Good Breathability

Adaptability: Smart Materials That React/Adapt to Weather

Ergonomics: Design for Better Interoperability and Weight

Distribution: Backpacks, Load Carriage Systems

1

2

3

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Capability Gaps (3)

3

Technology Gap
Tactical Combat Casualty Care

- Traumatic Bleeding Control
- Miniaturized Multi-Patient Remote Health Monitoring Equipment
- High Strength, Light Weight Litters
- First Aid, Buddy Aid, Medic Aid Modernization
- Transdermal Nutrients to Enhance Human Performance

1

2

3

SOF WARRIOR





Family of Ballistic Plates:

- An opportunity to modernize through sustainment
 - Variants: SPEAR GEN III, Low Vis, swimmer
 - Lighter weight, less mass, less volume and comparable protection to legacy system is our challenge to industry
 - An important factor in source selection
- Front/back plates, modular supplementary plates
 - Sides, abdomen, lower back, groin, shoulder



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release : Mar 2012
Award : Jan 2013

Point of Contact

PEO SW
PM SOF-SSS

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

Current Contract/OEM

Ceradyne



Soft Armor

- An opportunity to modernize through sustainment
 - Increase in fragmentation resistance and dispersal of impact energy transmitted to the wearer
 - Higher strength fiber materials: lighter weight, less bulk
 - Water/ moisture resistant – maintains effectiveness and extends shelf life
 - User friendly sensor to detect moisture contamination



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release: Mar 2011
Award: Nov 2011

Point of Contact

PEO SW
PM SOF-SSS

Funding

Estimated \$49M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

BAE
Safariland



Special Operations Eye Protection (SOEP)

- One device – multiple capabilities:
 - Ballistic protection
 - Transitional lens, anti-fogging
 - Blowing sand protection
 - Laser protection equal to or greater than current capability
- Protect without diminishing operators ability to perceive his environment and the threat



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release: Jun 2011
Award: Jan 2012

Point of Contact

PEO SW
PM SOF-SSES

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

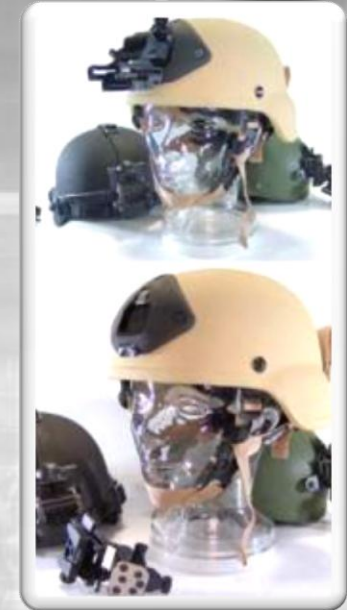
Current Contract/OEM

Oakley



Visual Augmentation Systems Helmet Mount Assembly

- **Helmet Mount Assembly to attach a Night Vision system directly to the front of the MICH (Modular Integrated Communications Helmet) family of helmets**
 - Low profile
 - Fully adjustable
 - Flip-up/flip-down capability



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2012
Award May 2013

Point of Contact

PEO SW
PM SOF-SSSES

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

Current Contract/OEM

Norotos
Wilcox



Family of Armor Vests

- The vest is the cornerstone of the SOF Operator's ballistic protection system
 - Variants: maritime, land, low visibility
 - System design factors important to SOCOM:
 - ✓ Single pull release
 - ✓ Buoyancy
 - ✓ Designed for easy ingress/ egress with tactical vehicles
 - ✓ Scalable: soft armor, hard armor plates, supplementary armor (side, groin, shoulder)
 - ✓ Interoperable with Load Carriage System, hydration systems and backpacks



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release: TBD
Award: TBD

Point of Contact

PEO SW
PM SOF-SSS

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

Current Contract/OEM

BAE
Safariland
Eagle



Backpacks – Load Carrying

- Variants: Reconnaissance, mountain reconnaissance, assault, and patrol
- Design attributes:
 - Improved load distribution
 - Non- hygroscopic materials
 - Low profile – low visibility
 - Light weight-high strength fiber



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release: Aug 2011
Award: Mar 2012

Point of Contact

PEO SW
PM SOF-SSES

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

Current Contract/OEM

Mystery Ranch
S.O. Tech
Granite Gear



Land & Maritime Communications

- Family of communications headsets and ancillary equipment
 - Provides SOF Operators with an ability to communicate over a myriad of radios while conducting land, vehicle, and maritime operations
- Design needs:
 - Reduced weight/ size
 - Improved integration of eyewear with circum-aural headsets
 - 66ft 3-hour diveable
 - Improved hearing in high noise backgrounds
 - Improved steady state and impulse stimulus hearing protection



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release: FY12
Award: FY13

Point of Contact

PEO SW
PM SOF-SSS

Funding

Estimated \$49M ceiling
Annual procurements based
on Component requirements

Current Contract/OEM

Television Equipment
Associates

Questions ?



**SOF Warfighters
Are Counting On Us!**

SOF WARRIOR

