



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mobility Systems: Power System Risk Mitigations

TACTICAL
ASSAULT
LIGHT
OPERATOR
SUIT



TACTICAL ASSAULT LIGHT OPERATOR SUIT

TALOS MISSION

TALOS is a Vision for the Future SOF Operator...

In FY14, USSOCOM established Joint Acquisition Task Force TALOS (JATF-TALOS) to develop an advanced combat suit prototype, through an innovative acquisition process, that provides:

- Comprehensive ballistic protection
- Peerless tactical capabilities
- Enhanced strategic effectiveness for the SOF Operator of the future

The TALOS roadmap consists of incremental prototypes leading to the First Article Tactical Prototype delivery, currently scheduled for August 2018.

JATF-TALOS FY15 Priorities:

Powered Exoskeleton, Enabling Technologies

Further develop subsystems for future integration

Pioneer Innovative Processes

Rapid Prototyping, Prize Challenges, Acquisition

Consistent Collaboration

Maintaining Extended Network, User Engagement

Accelerate Tech Development / Transitions

Equipping SOF to win in a complex, uncertain future



TALOS: Protecting the Operator at his most vulnerable moment

Functional Areas:

The TALOS vision is divided into distinct functional areas, each charged with integrating state-of-the-art technologies into a single, purpose-built combat suit system.



Mobility & Agility



Power & Energy



C4I: Command, Control, Comms, Computing & Intelligence



Human Factors



Operator Interface/Visual Augmentation Systems



Offensive Systems



Survivability

"TALOS was chartered to explore and catalyze a revolutionary integration of advanced technology to provide comprehensive ballistic protection, peerless tactical capabilities and ultimately to enhance the strategic effectiveness of the SOF operator of the future."

--GEN Joseph Votel, USSOCOM Commander

TALOS POWER/ENERGY THINK TANK SOFIC 2015 OBJECTIVE

Power/Energy Objective:

Hybrid multi-hour power solution with 1+ kW power generation, high density energy storage, and efficient power management/conversion

Power System Risk Mitigations:

- Composite Materials
- Vibration Dampening
- Thermal Management

Interested:

- Novel Power Generation Sources
- Advanced Energy Storage

Product Deliverable:

- Ruggedized
- Lightweight
- Reliable
- High Power Density
- High Energy Density
- High Efficiency
- Man Wearable

BAA Submissions
can be sent to:

www.fbo.gov

Keyword: TALOS