Mobility Systems: Power System Risk Mitigations

TACTICAL ASSAULT LIGHT OPERATOR SUIT

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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 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

**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: Protecting the Operator at his most vulnerable moment**
**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

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Keyword: TALOS