

**USSOCOM PEO-Maritime Undersea (PEO-M)  
Fault-Tolerant Battery Technology Assessment Criteria**

- Degree of compliance with Request for Information (RFI).
- The Undersea Enterprise is interested in 3 levels of specific energy and energy density, only one of which is presently listed in the SOFWERX RFI. The requested information and the acceptance criteria are intended to explore energy density in the following ranges:
  - Current Capability: 135 Wh/kg, 190 Wh/l
  - Phase I Threshold: 170 Wh/kg, 270 Wh/l
  - Phase II Objective: 235 Wh/kg, 405 Wh/l (these are values that are listed in the draft RFI dated 11-10-2021)
- Ability to meet or compliance with USSOCOM/NAVSEA battery safety certification.
- Technology Readiness Level (TRL) and Manufacturing Readiness Level (MRL) of the proposed solution and roadmap to TRL and MRL 7 will be assessed.
- Business status: Size, global headquartering (offshore ownership), financial stability and design, production and fielding experience will be considered in the Government assessment.
- Describe any relationships with Tier I or Tier II cell suppliers and what chemistry and cell format.
- Sustainability of design relative to global supply chain changes. China stands to monopolize the market for certain battery cell formats. How does the proposed solution avoid this issue?
- Longevity of design. With rapidly shifting commercial industry needs and solutions, what is the expected duration of availability of the proposed solution?
- Intellectual property. There is a desire for the government to have flexibility in applying the technology proposed. What are the limits that will be imposed on the application and extension for the proposed solution?