

# MEPNN Supplier Scouting Opportunity Synopsis

## Item Information

Scouting Number	2023-110
Item to be Scouted	Smart Clothes (clothing that turns body heat into electricity)
Days to be scouted	30
Description	Due to the increasing conflict, it is expected that the warfighter will be fighting in extreme temperatures such as cold artic. Therefore, my branch is scouting to see what technology exists in wearable sensor clothing.
State item to be used in	

## Contact Information

Email	
First Name	
Last Name	
Department / Company / MEP Center	Navy, The Department of
Bureau / Division / MEP Center Regional Office	Navy, U.S.

## Supplier Information

Type of supplier being sought	Manufacturer
Reason	New product startup

## Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	Sewn to military specification YACL-WP PD 99-01
Provide dimensions / size / tolerances / performance specifications for the item	Clothing must be able to accommodate the 5th and 95th percentile of both male and female populations. Clothing must be fire resistant, durable, easy to launder, and to be in the appropriate colors of the military (i.e. sage green, brown, blue, black, tan)
List required materials needed to make the product, including materials of product components	Nomex, Gore
Are there applicable certification requirements?	Yes
Certification(s) required	ASF ,DFARS ,SQF/BRC
Are there applicable regulations?	Yes

Details	<p>Sewn to military specification YAACL-WP PD 99-01 Needs to be NIR compliant. NAWC PD 4631-04-02 - Cloth, Knitted, Fleece, Velour, Flame Resistant COMMERCIAL ITEM DESCRIPTIONS A-A-55217 - Thread, Aramid, Spun Staple DEPARTMENT OF DEFENSE SPECIFICATIONS MIL-DTL-32075 - Label: For Clothing, Equipage, and Tentage (General Use) MIL-PRF-32717 - Cloth, Knitted, Silk Weight, Stretch, Flame Resistant ENVIRONMENTAL PROTECTION AGENCY EPA chemicals-and-toxics-topics Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). AATCC 20A - Fiber Analysis: Quantitative AATCC 135, I, II, A - Dimensional Changes of Fabrics after Home Laundering. ASQ-Z1.4 - Procedures, Sampling and Tables for Inspection by Attributes</p>
Additional Technical Comments	<p>A-A-55634 ARIP 89-20 Zippers (Fasteners, Slide Interlocking) Army Research Institute Publication (ARIP) 89-20: Questionnaire Construction Manual 12 MCO 1200.17 Military Occupational Specialties (MOS) Manual MCBUL 1200 - 2007 Military Occupational Specialties (MOS) Manual Bulletin NAVAIR 13-1-6.7 Aircrew Personal Protective Equipment Manual NAVAIRINST 3710.9 Anthropometric Accommodation in Naval Aviation NAVAIRINST 13650.1 Aircraft Maintenance Material Readiness List NAVPERS 18068 Navy Enlisted Manpower and Personnel Classifications and Occupational Standards NAVPERS 15839I Navy Officer Manpower and Personnel Classification NIJ 0101.04 Ballistic Resistance of Personal Body Armor PMA 202-07000 PMA 202-08001 Performance Specification for Common Mobile Aircrew Restraint System (CMARS) Aircrew Integrated Recovery Survival Armor Vest and Equipment (AIRSAVE) Interface Specification for Common Mobile Aircrew Restraint (CMARS) System Technical Report Natick/TR-97/012 (ADA 324730) Gordon, CC, Corner BD, Brantley JD (1997). Defining Extreme Sizes and Shapes for Body Armor and Load Bearing Systems Design: Multivariate Analysis of U.S. Army Torso Dimensions. Army Soldier Systems Command: Natick MA. USATECOM International Test Operating Procedure 4-2-805 Projectile Velocity and Time of Flight Measurements USATECOM Test Operating Procedure 7-3-529 Ingress, Emergency Egress, and Emergency Evacuation Testing of Army Aircraft</p>

## Volume and Pricing

Estimated potential business volume	5000 units per year.
Estimated target price / unit cost information (if unavailable explain)	\$150 per unit

## Delivery Requirements

When is it needed by?	2-3 years
Describe packaging requirements	None
Where will this item be shipped?	These items will be shipped directly to both a central location and end consumers.

## Additional Comments

Is there other information you would like to include?