

**JUSTIFICATION AND APPROVAL
FOR OTHER THAN FULL AND OPEN COMPETITION
480V, 4000A Shielding Disconnect Switches
Power Generation Microgrid, Cape Cod Space Force Station
(CCSFS), Bourne, MA
Solicitation No. W912WJ26RA002**

1. Contracting Activity:

U.S. Army Corps of Engineers (USACE), New England District (NAE)
696 Virginia Road
Concord, MA 01742

2. Description of Action:

Approval is requested for use of brand name items in an upcoming acquisition. The requested item is Electric Power, Inc. (EPI) 480V, 4,000A Shielding Disconnect Switches (SDS).

This project is a Cape Cod Space Force Station (CCSFS) requirement for continued operation. USACE is the servicing agency authorized under the Chiefs Economy Act, 10 U.S.C. § 7036(e), and thus responsible for the acquisition and administration of a new construction contract to construct a microgrid intended to replace the aging power generation plant and associated infrastructure with all new electrical systems and backup power assets at CCSFS in Bourne, MA. This Justification and Approval (J&A) covers only the portion of the acquisition which is brand-name or particular to one manufacturer of shielding disconnect switches necessary for the operation of the facility.

3. Description of Supplies/Services:

The requirement is to provide Electric Power, Inc. (EPI) 480V, 4,000A Shielding Disconnect Switches (SDS) at Building 4 of CCSFS. The SDS provides protection from all High-altitude Electromagnetic Pulse (HEMP) events. The Power Plant (Building 4) will have two incoming power lines from the utility requiring these disconnects. The estimated cost of the requested brand-name requirement for the Shielded Disconnect Switches for the CCSFS Power Generation Microgrid project is [REDACTED] and will be funded with Procurement appropriations.

The planned acquisition strategy for the construction contract will be an unrestricted, Best Value Trade-off solicitation, competed under FAR Part 15. The solicitation is expected to be awarded in FY2026 with construction completed in FY2030, with a total estimated construction cost of [REDACTED]

4. Authority Cited:

10 U.S.C. § 3204(a)(1), Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements, as implemented by FAR 6.302-1(c), Application for Brand-Name Descriptions. In accordance with FAR 6.302-1(c), the solicitation will specify that all offerors be required to procure only the cited brand-name product.

5. Reason for Authority Cited:**a. Background**

Building 4 at CCSFS is a critical facility that is integral to the PAVE PAWS mission. The PAVE PAWS mission is part of a defense network containing strategically positioned early warning radars around the world. Continuous operation of associated facilities with this mission is vital to the Nation's defense in providing immediate interception guidance to assist with eliminating missiles and other threats. Any unscheduled downtime is a risk to national security. The scope of this project is the replacement of the power generation systems and switchgear at the CCSFS to include removal of all 4160V services to the building. The new incoming power feeders entering the HEMP barrier to reach Building 4 require Point-of-Entry (POE) protection to prevent HEMP fields and conducted current transients from entering the protected area, for which the SDS is a component. The SDS are configured with a 480V load interrupter switch and a shielded section with a HEMP waveguide. Building 4 will have two incoming power feeders requiring SDS.

The SDS, in conjunction with the entire system, is required to meet the transient suppression/attenuation requirements of MIL STD 188-125-1A. Additionally, operational requirements dictated by the mission owners Space Force HEMP Project Management Office and the Defense Threat Reduction Agency (DTRA) require these switches to be operated remotely, when a HEMP event should occur, from within the HEMP barrier.

b. Justification

The only manufacturer of a 480V, 4,000A, 3 phase SDS compliant with MIL STD 188-125-1A and remotely operable is Electric Power, Inc. (EPI). The disconnection mechanism of the EPI SDS meets MIL STD 188-125-1A through a novel shielding strategy where the conductor is pulled into a waveguide so that it will cut off any emanations/energy from traveling beyond that guide and into the building's power system. The technology of the EPI switch connections is the only available option which meets the MIL-STD protection criteria while offering a remote disconnection option. No other technology exists currently for providing HEMP protection for feeders and remote operation in a single package. The entire product is custom but will become a standard commercial-off-the-shelf (COTS) product offering from EPI.

For the reasons stated above, FAR 6.302-1(a)(2), Only One Responsible Source, is the appropriate authority for this procurement with application of FAR 6.302-1(c)(1), Application for brand-name descriptions, as only EPI's SSD product will meet the Government's requirements.

c. Alternatives

No other manufacturer presently has a SDS solution suitable for this application to meet MIL STD 188-125-1A.

d. Impact

If the Justification is not approved, the building would not meet MIL STD 188-125-1A or mission owner requirements for HEMP protection. Without the remote operation provided by this product, the station workers would need to go outside to perform utility disconnection in a potentially unsafe event. The building and the mission critical systems would be put at risk. The HEMP protection is required to ensure continuous operation of the national defense mission critical facility. If there is any penetration to the HEMP shield, a HEMP attack can destroy the power systems of the building requiring full replacement and downtime of the facility. The PAVE PAWS facility at CCSFS is part of a worldwide missile defense system. Any unscheduled downtime would be a critical national defense failure.

6. Efforts to Obtain Competition:

See Section 9: Interested Sources.

7. Actions to Increase Competition:

Based on the information in the above paragraphs, increasing competition for this action is not feasible. The brand-name requirement for this system does not preclude a wide range of contractors from submitting a proposal on this procurement or for the specific brand-name products.

8. Market Research:

Market research in May 2025, upon completion of the 65% design submittal, was conducted. It confirmed that all other disconnect switches do not meet the MIL STD 188-125-1A requirements. The project delivery team surveyed other manufactured products amperages and dimensions on manufacturer websites and through vendor analysis. The market research determined that Electric Power, Inc. is the only brand available to ensure the building meets HEMP protection requirements. See Section 9 (Interested Sources).

9. Interested Sources:

A Notice of Intent (NOI) to determine potential sources for this system was posted on 31 July 2025. The NOI was published for 15 days on the SAM.gov website. There were no responses to the NOI and no sources expressed interest in the subject action.

This Justification and Approval will be posted with the solicitation.

10. Other Facts:

Electric Power, Inc. meets FAR Buy American requirements.

11. Technical Certification:

I certify that the supporting data under my cognizance, which are included in the justification, are accurate and complete to the best of my knowledge and belief.

FRISINO.ANGELA.E.13
Signature: 85054447 Digitally signed by
FRISINO.ANGELA.E.1385054447
Date: 2025.09.22 09:30:15 -04'00' Date: _____

Typed Name: Angela Frisino Title: Technical Lead

12. Requirements Certification:

I certify that the supporting data under my cognizance, which are included in the justification, are accurate and complete to the best of my knowledge and belief.

ROSENBERG.ERI
Signature: C.C.1554932335 Digitally signed by
ROSENBERG.ERIC.C.1554932335
Date: 2025.09.22 09:38:18 -04'00' Date: _____

Typed Name: Eric Rosenberg Title: Project Manager

13. Fair and Reasonable Cost Determination:

I hereby determine that the anticipated cost to the Government for this contract action will be fair and reasonable. Reasonableness will be determined using price analysis techniques. Per FAR 15.406-2, a Certificate of Current Cost and Pricing Data may be obtained but may be waived depending on the level of competition for the contract.

Signature: Erin E Bradley Digitally signed by
BRADLEY.ERIN.ELIZABETH.1386
Date: 2025.09.22 09:56:56 -04'00' Date: _____

Typed Name: _____ Title: _____

14. Contracting Officer Certification:

I certify that this justification is accurate and complete to the best of my knowledge and belief.

Signature: Erin E Bradley Digitally signed by
BRADLEY.ERIN.ELIZABETH.1386908
440 Date: 2025.09.22 09:57:42 -04'00' Date: _____

Typed Name: _____ Title: _____

Approval

Based on the foregoing justification, I hereby approve the procurement of Electric Power, Inc. (EPI) 480V, 4,000A Shielding Disconnect Switches for approximately [REDACTED] on an other than full and open competition basis pursuant to the authority of 10 U.S.C. § 3204(a)(1), as implemented in FAR 6.302-1(c), subject to availability of funds, and provided that the services and property herein described have otherwise been authorized for this acquisition.



Digitally signed by
BRADLEY.ERIN.ELIZABETH.138690
8440
Date: 2025.09.22 09:58:02 -04'00'

Contracting Officer, New England District