

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-200
Item to be Scouted	Automatic Transfer Switch
Days to be scouted	45
Response Due By	09/07/2024
Description	Automatic Transfer Switch (ATS) shall automatically switch power from normal source to generator source within 10 seconds.
Notify Requester Immediately	
State item to be used in	Vermont

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>Machining: The switching contacts are machined from solid extruded copper, while the mechanical linkages are crafted from anodized steel rods.</p> <p>Bus bars: These are made from solid copper and are silver plated.</p> <p>Enclosure seams: These are arc-welded for extra bracing and smooth corners.</p>
Provide dimensions / size / tolerances / performance specifications for the item	<p>Automatic transfer switch shall be rated for 208/120Y volts, 800 amperes minimum, 4 pole, and interrupting capacity of 65,000 amperes rated with any circuit breaker. Refer to specification section 262300 for additional ATS information. Unit shall start standby generator unit when line voltage drops to 75% of normal value, transfer load to generator and retransfer load to normal source when voltage is 90% of normal value. Switch shall be electrically operated and mechanically held with overlapping neutral transfer. Units shall be equipped with test switch for manual simulation of normal power outage including standby unit operation and load transfer and time-clock exerciser for auto-matic periodic exercise of engine-generator unit</p> <p>The automatic transfer switch shall be equipped with time delay features to override momentary normal source outages (up to 5 seconds), on retransfer to normal source (from 0 to 30 minutes) and for unloaded running time cool down (0 to 5 minutes). Adjustable dwell period between sources shall be provided for voltage decay</p> <p>Indicator lights shall be provided for connection to normal source and for connection to emergency source. As a minimum a normally closed and a normally open contact shall be provided for both, connection to normal source and connection to emergency source</p> <p>An in-phase monitor shall be provided. The monitor shall control transfer/retransfer operation between live source so that closure on the alternate source will occur only when the two sources are approaching synchronism and are within 60 electrical degrees' maximum so that inrush currents do not exceed normal starting currents. The monitor shall function over a frequency difference range of up to ± 2.0 Hz with a maximum operating transfer time of one-sixth of a second. If the voltage of the load carrying source drops below 70%, the in-phase function shall be automatically bypassed. The monitor shall not require interwiring with the generator controls, or active control of the governor</p>

List required materials needed to make the product, including materials of product components	12ga. Steel, copper, rivets, welds
Are there applicable certification requirements?	Yes
Certification(s) required	UL
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	Transfer switch shall conform to latest National Electric Code (NEC)
NAICS 1	335313 Switchgear and switchboard apparatus manufacturing
NAICS 2	
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	1 Automatic Transfer Switch is required for this project.
Estimated target price / unit cost information (if unavailable explain)	\$21,000/unit
When is it needed by?	Construction is scheduled to start in February of 2025.
Describe packaging requirements	palletized
Where will this item be shipped?	Norwich University, Northfield, VT

Additional Comments

Is there other information you would like to include?	<p>Contact information for questions including BABA/Buy American compliance:</p> <p>Jones Architecture Alya Staber alya@jonesarch.com</p> <p>Please copy scouting@nist.gov on all correspondence.</p>
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