MEP National Network™

COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING

MEPNN Supplier Scouting Opportunity Synopsis

☒ *The submitting organization (ex. MEP Center, requesting company, federal/state agency) agrees to notify NIST MEP of the status of actions taken as a result of this scouting instance within 30 days after receiving a results report. Notification should be via email to scouting@nist.gov, indicating the following:

- Contact with matches identified in report complete and supply contract awarded, process complete
- Contact with matches identified in report complete and no supply contract awarded, process complete
- Contact with matches identified in report complete and supply negotiations underway, process in progress
- Contact with matches identified in report underway; supply negotiations not yet begun; process in progress
- Contact with matches identified in report not yet begun, process in progress
- Contact with matches identified in report will not occur within the next 6-months, process complete

48VDC Battery Banks

Item to be Scouted

15 **days**

Opportunities will be posted for 30 days unless specified

Please describe the item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).
Enersys 7OPzV490, 6OPzS600, 6OPzV600, and 5OPzV250 batteries for providing backup 48VDC power to communications equipment with additional hardware such as racks and spill containments. Enersys EC-15M with with additional hardware such as racks and spill containments used in our Substations.

2022-069

Supplier Scouting Number (NIST MEP use)

335911

Scouting customer/product NAICS Code, if known

TECHNICAL INFORMATION:

1. Supplier Information

a. Type of supplier being sought*

☐ **Manufacturer** ☐ **Contract Manufacturer** ☒ **Distributor**

☐ **Other** _____

b. Reason for scouting submission*

☐ **2nd Supplier** ☐ **Price** ☐ **Re-shore** ☐ **Past supplier no longer available**

☐ **New Product Startup**

☒ **Other** No manufacturers responded in solicitation with Made in America options that meet our specs.

2. Summary of Technical Specifications and Performance Requirements:

a. Describe the manufacturing processes (elaborate to provide as much detail as possible).*

Using molten lead, lead oxide is produced to make plates and paste to assemble into a plastic enclosure (battery jar.) Each jar is filled with electrolyte and formed into dry or wet cells. They are then charged, discharged, and recharged for testing prior to distribution.

b. Provide dimensions / size / tolerances / performance specifications for the item.*

Specs of EnerSys PowerSafe 7OPzV490, 6OPzS600, 6OPzV600, and 5OPzV250 batteries or equivalent specs. This includes being able to supply the equivalent Amp*Hrs with each cell retaining at least 1.75 Volts or better. Specs of Enersys EC-15M or equivalent specs.

c. List required materials needed to make the product, including materials of product components.*

-		Lead, antmiony, arsenic, calcium, tin, sulfuric acid, polypropylene, polystyrene, styrene acrylonitrile, acrylonitrile butadiene styrene, styrene butadiene, polyvinylchloride, polycarbonate, hard rubber, polyethylene, Silicon Dioxide in gel cells, sheet molding compound Substation's are slightly different in that they won't accept lead-selenium or lead-arsenic plates.

MEP National Network™

	2. Summary of Technical Specifications and Performance Requirements cont:	**d. Are there applicable certification requirements?*** ☐ Yes ☐ No **Please explain**
		e. Are there applicable regulations?* ☐ Yes ☒ No **Please explain**
		f. Are there any other standards, requirements, etc.?* ☒ Yes ☐ No **Please explain**
		ISO 4001-2015, ISO 14001-2015, NEBS Level 3 Requirements, and other typical requirements of a battery manufacturing facility.
		g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.
		The dimensions of the batteries and terminals must also match our specifications. This allows the ability to reuse racks and battery straps if desired. The cells must be independent and not packaged into groups. Chemical characteristics also need to match the EnerSys PowerSafe batteries. Having matching chemical makeup also allows us to better compare battery test results across our system and allows us to standardize maintenance and replacement procedures.
BUSINESS INFORMATION:	3. Volume and Pricing	**3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:**
		5-6 battery banks (120-144 battery cells) per year.
		b. Estimated target price / unit cost information (if unavailable explain) **:**
		$65000 for 6 battery banks
	4. Delivery Requirements:	**a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)***
		Immediate
		b. Describe packaging requirements (i.e., individually/group packaging)*
		Individual packaging, the cells must be independent and not packaged into groups.
		c. Where will this item be shipped? *
		Bismarck, ND
	5. Additional Comments:	**Is there other information you would like to include?**
		Please if possible return form back to me in 15 days. Thank you.

Photos or diagrams of the item (helpful but not required).