

Quote Q03-08262015-01



Advanced Mechanical/Electrical Planning Services, LLC



Aug 26, 2015

CITY OF SARATOGA SPRINGS 474 BROADWAY SARATOGA SPRINGS, NY US, 12866 Q02363655

Phone: 5185873350

Fax:

Email: kevin.kling@saratoga-springs.org

Dear Kevin,

Thank you for your interest in Emerson Network Power, Liebert Services. We are pleased to submit the following proposal for your review and consideration.

As the rate of change and complexity in your data center increases, Emerson Network Power is the dedicated partner that you need to help you achieve your goals.

Please complete all required fields on the signature page and attach your Purchase Order to assist timely order processing. Should you have any questions regarding the proposal, feel free to contact me directly at (518) 369-5263. I look forward to your response and the opportunity to work together to improve your data center investment.

Sincerely,

Michael Haley

22 Computer Drive West

Albany, NY 12205

PHONE (518) 512-5199 x110 EMAIL haley@amepservices.com

Order Q03-08262015-01



Liebert UPS / Power / Battery Services:

- We are the Original Equipment Manufacturer and the experts on Liebert equipment with access to updates and changes, knowledge of engineering specifications, current issues and how to fix them correctly.
- Our factory trained service force is twice the size of the next largest competitor with over 650 customer engineers and field technicians in the United States alone; everywhere in the US the most knowledgeable engineers and technicians available, will cover you.
- With the most advanced tooling and instrumentation available, each CE has over \$10,000 in gear with him at all times, so any issue can be resolved in the least amount of time possible.
- To make sure we get the right part to the right place at the right time, we have the industry's most sophisticated parts logistics system. No matter where you are in the US we also have a parts warehouse close to serve you.
- Emerson maintains and follows all safety and compliance regulations necessary to keep CE's from harm and protect you, our customers from liability. We care about your safety.

Cooling Services:

- Liebert Service is your only choice for factory direct services on your Liebert Precision Cooling products including; equipment start-ups, preventive maintenance, emergency service, legacy control upgrades, energy efficiency upgrades and site assessments.
- We have the ability to apply the latest technology with the required engineering depth and understanding of the systems and how they operate / integrate into your overall facility. Factory-trained service technicians are the best qualified to set-up, maintain and optimize these systems and controls.
- It is important to develop and adhere to a long-term service plan that includes preventive maintenance and optimization of the precision cooling system with regular maintenance plans.
- Service is part of a long-term service cost saving plan that can substantially decrease energy consumption. Providing and proving the savings is critical to overall cost control.

Standard Maintenance Contracts:

Site #: 46507, CITY OF SARATOGA SPRINGS

Tag#	Description	Model #	Annual PM Qty.	Coverage Type (Coverage Dates)	Coverage Amount
1703171	APM 45 INTBAT	NRA41CCSAFA0K89	1	ESSENTIAL (11/22/2015) - (11/21/2016)	\$3,992.00
New Tag	CRV DX		2	ESSENTIAL (11/22/2015) - (11/21/2016)	\$2,793.00
New Tag	CRV DX		2	ESSENTIAL (11/22/2015) - (11/21/2016)	\$2,793.00

Total price not including tax: USD \$9,578.00 any tax required must be included in customer purchase order

Payment Terms:

Net 30 Days

UNINTERRUPTIBLE POWER SYSTEMS APM UPS ONLY SCOPE OF WORK

ESSENTIAL SERVICE (1)

- Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Liebert Services' Service city.
- Includes 1-800-LIEBERT Customer Response Center.
- Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
- Includes 100% parts coverage (excluding air filters and proactive full bank capacitor replacement).
- Includes access to Liebert Customer Services Network On-Line Internet portal.
- Includes battery recycling as required, with documentation meeting EPA requirements.

- Internal Battery Coverage Includes parts, labor and battery jars as required - up to 10% of the battery string per year (not accumulated over contract term).
- Performed by Level I Liebert factory trained Customer Engineers.
- Includes one Annual Preventive Maintenance Service on the UPS and internal battery cabinet scheduled by the customer between 8am-5pm, Monday-Friday (excluding national holidays).
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

SERVICE PERFORMED

UPS Full Preventive Maintenance Service

Annual Service

- Perform a temperature check on all breakers, connections and associated controls. Repair and/or report all high temperature areas.
- Perform a complete visual inspection of the equipment, including sub-assemblies, wiring harnesses, contacts, cables and major components.
- 3. Check air filters for cleanliness. (if applicable)
- Check module(s) completely for the following (if applicable):
- Rectifier and inverter snubber boards for discoloration.
- Record all voltage and current meter readings on the module control cabinet or the system control cabinet.

Annual Service Includes the Above, Plus:

- Check the inverter and rectifier snubbers for burned or broken wires.
- Check all nuts, bolts, screws, and connectors for tightness and heat discoloration.
- 3. Check fuses on the DC capacitor deck for continuity (if applicable).
- With customer approval, perform operational test of the system including unit transfer and battery discharge.
- Calibrate and record all electronics to system specifications.
- Check or perform Engineering Field Change Notices (FCN) as necessary.
- Measure and record all low-voltage power supply levels.
- 8. Record phase-to-phase input voltage and currents.
- 9. Review system performance with customer to address any questions and to schedule any repairs.
- 10. Check power capacitors for swelling or leaking oil. (if applicable)
- 11. DC capacitor vent caps that have extruded more than 1/8". (if applicable)
- 12. Measure and record harmonic trap filter currents. (if applicable)

Internal Battery Full Preventive Maintenance Service (Applicable to 45kVA Models Only).



Annual Service

- 1. Inspect the appearance and cleanliness of the battery and the battery room. Clean normal cell top dirt accumulation (to be done only with battery off line).
- 2. Measure and record the total battery float voltage and charging current.
- Measure and record the overall AC ripple current.
- Measure and record the overall AC ripple voltage.
- Visually inspect the jars and covers for cracks and leakage.
- Visually inspect for evidence of corrosion.
- Measure and record the ambient temperature.
- Verify the condition of the ventilation equipment, if applicable.
- 9. Verify the integrity of the battery rack/cabinet.
- 10. Measure and record 100% of the cell temperatures.
- 11. Measure and record the float voltage of all cells.
- 12. Measure and record all internal impedance readings.
- Provide a detailed written report noting any deficiencies and corrective action needed, taken and/or planned.

Annual Service Includes the Above, Plus:

1. Re-tighten all battery connections to the battery manufacturer's specifications, offline only.

Corrective Maintenance Performed as Required

Refurbish cell connections as deemed necessary by the detailed inspection report.

Note1: Customer should check air filters monthly for cleanliness and replace as necessary.

Note2: Preventive Maintenance usually requires a shutdown to ensure electrical connection integrity.

Note3: All battery checks are recorded through the LDI reporting system. Only visual battery inspection and total battery voltages are to be recorded on the UPS E-form. The full battery maintenance inspection will be conducted through LDI.

Note4: Above maintenance does not include System Control Cabinet, Power Tie, Breaker Cabinets, Load Bus Sync or Maintenance Bypass Cabinets.



PRECISION COOLING SERVICES (FLOORMOUNT, CEILING, WALLMOUNT & HEAT REJECTION) SCOPE OF WORK

YK - ESSENTIAL FULL SERVICE (2 PM'S)

- Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Liebert Services' Service city.
- Condenser coil will be brush cleaned and sprayed using hose and nozzle connected to local water source. Chemical cleaning of the coil can be performed on a time and material basis.
- Includes (2) PM inspections scheduled by the customer between 8am- 5pm, Monday-Friday, (excluding national holidays).
- Includes 1-800-LIEBERT Customer Response Center.
- Includes 100% labor and travel coverage for emergency service 7 days/week, 24 hours/day (within the 48 contiguous states).

- Includes 100% parts coverage (excluding piping external from the unit, replacement of outdoor condensing unit, components showing physical damage, component failure due to irregular voltage conditions, pumps external to the unit, fire suppression system, unit control upgrades, network panels external to the unit, and leak detection panels) Rental of temporary spot coolers is also excluded.
- Includes access to Liebert Customer
 Services Network On-Line Internet portal.
- Performed by Liebert Factory Trained Technicians.
- Prior to acceptance of full service contract, all applicable equipment must be inspected and brought up to a minimum service level. This work is completed outside the full service contract and is performed on a time and material basis.
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

SERVICE PERFORMED

Maintenance Includes:

Filters

- Check for restricted airflow.
- 2. Replace air filters as needed
- 3. Examine filter switch.
- Wipe entire section clean.

Blower Section

- 1. Verify that impellers are free of debris and move freely.
- Check belt for condition and proper tension.
- Replace belts as needed.
- Verify that the bearings are in good condition.
- Check the fan safety switch for proper operation.

 Check the pulleys and motor mounts for tightness and proper alignment.

Air Cooled Condenser (If Applicable)

- Verify condenser coil cleanliness
- Brush clean and spray using hose and nozzle connected to local water source (if necessary)
- Chemical cleaning of outdoor condensing unit is excluded from normal scheduled maintenance and can be performed on a time and material basis.
- Examine motor mounts for tightness.
 Tighten if necessary.
- 5. Verify that the bearings are in good working order.
- 6. Confirm that the refrigerant lines are properly supported.

Water/Glycol Condenser (If Applicable)

- Check cleanliness of copper tubing.
- Confirm that the water regulating valves are functioning properly.
- Check the glycol solution level.
- Check glycol freeze protection level
- Check for water/glycol leaks.

Glycol Pump

- Examine for any glycol leaks.
- Determine proper pump operation.

Steam Generating Humidifier (If Applicable)

- Check the canister for any deposits.
- Check the condition of all steam hoses.
- Examine the water make-up valve for any leaks.
- Check and adjust potentiometers for optimal performance

Infrared Humidifier (If Applicable)

- Check the pan drain for any type of blockage.
- Examine the humidifier lamps for proper operation.
- 3. Check the pan for any type of mineral deposits.

Refrigerant Cycle/Section

Examine refrigerant lines for leaks or damage.

- Using the sight glass, check lines for moisture.
- Monitor suction pressure.
- Monitor head pressure.
- Monitor discharge pressure.
- Check superheat.

Electric Panel, Controls, and Ancillary Items

- 1. Check fuses
- 2. Check electrical connections
- Check contactors for pitting
- Using microprocessor controls, ensure proper operation of the unit components
- Inspect leak detection cabling (if connected to unit)

Chilled water units - additional checks (if Applicable):

- Inspect chilled water valve and actuator for proper operation.
- 2. Adjust/ tighten linkage if necessary.
- Inspect internal chilled water piping and coil for leaks.



Phone

Title

Order Number: Q02363655 Payment remittance address: Purchase Order must be assigned to: Advanced ME Planning Services Advanced ME Planning Services 22 Computer Drive West 22 Computer Drive West Albany NY 11105 Albany NY 12205 FID# 30-0541186 PO should be e-mailed or faxed with signed proposal to: haley@amepservices.com Fax 518-689-2088 Please complete the following information (All fields are required): Purchase Order Number: Purchase Order attached: ☐ Yes ☐ No If PO NOT attached, please specify reason: ___ Invoice Delivery Method:

Email Billing

Mail

Other □ Accounts Payable Email ______@______ Billing Contact Person: _____ Phone: _____ Email: _____ Fax #: ____ Bill-To Company Name: Bill-To Address: _____ Federal Tax ID # ______ Bill-To City, ST Zip: _____ Tax Exempt: ☐ Yes (Attach tax exempt certificate) □ No Site Services/IT Contact Person: Phone: * * COVERAGE DETAILS * * For equipment not currently under a Service Agreement or for equipment for which the warranty has expired in excess of thirty(30) days, parts required to bring equipment back to manufacturers specifications are the responsibility of the Buyer and billable at the time of the first preventive maintenance visit or Service call. All pricing is valid only for Service coverage stated and is subject to change if this Proposal is modified in any way. This Proposal is valid for 45 days from the date of this Proposal unless otherwise noted. By acceptance of this Proposal, Buyer expressly manifests its assent to the Terms and Conditions of this Proposal, and agrees that if any provision of Buyer's Order or other document or communication from Buyer is inconsistent with any provision of these Terms and Conditions, regardless of the order or timing of the exchange of such document or communication, these Terms and Conditions shall prevail. Signature of this agreement authorizes Seller to invoice for Services mentioned herein and to utilize the provided purchase order number. If a purchase order number is not used, then the Buyer authorizes and guarantees Seller the payment of such invoices by authority of the signature below. Thank you for your business. Accepted By: Proposed By: Michael Haley Date Buyer Signature Required

Printed Name