



Dec 13, 2011

**Lori LeClair**  
**CITY OF COLUMBUS**  
**1601 ARLINGATE LANE**  
**COLUMBUS, OH 43228**

**Phone:** 614-645-0794  
**Fax:**

**Quote No.** Q01693575

We are pleased to submit the following proposal for service of your Liebert equipment for your consideration. Please refer to the Scope of Work for specific coverage information. Below is a summary of the service(s) included in this quote.

**Preferred Service**

- Guaranteed 4-hour response 24 hours/day, 7 days/week
- Emergency service labor and travel coverage
- Parts coverage
- Preventive Maintenance visits scheduled at customer’s convenience

**SiteScan Essential Service**

- Guaranteed 2-hour telephone response, 7 days/week, 24 hours/day
- On-site visits to be scheduled
- Emergency service labor and travel coverage
- Parts Coverage
- Preventive Maintenance visit scheduled Monday-Friday, 8 am – 5 pm

**Site ID: 39991 CITY OF COLUMBUS, 1601 ARLINGATE LANE, COLUMBUS, OH 43228**

Tag #	Description	Part #	Annual PM Qty.	Coverage Type	Coverage Amount
1311111	SEALED BATTERY	37BP130XRJABNS	2	Preferred	\$ 950.28
1311112	SEALED BATTERY	37BP130XRJBBNS	2	Preferred	\$ 950.28
1311113	SEALED BATTERY	37BP130XRJABNS	2	Preferred	\$ 950.28
1311114	SEALED BATTERY	37BP130XRJBBNS	2	Preferred	\$ 950.28
1311115	NPOWER 100-130	37SA130AAA6S913	2	Preferred	\$ 6,938.83
1311116	NPOWER 100-130	37SA130AAA6S912	2	Preferred	\$ 6,938.83
1311536	STATIC TRNS SWT	STC0250A126921	2	Preferred	\$ 1,701.19
1311537	PPC 75-125	PPA075C315S6921	1	Preferred	\$ 1,196.28
1311538	PPC 75-125	PPA075C315S6922	1	Preferred	\$ 1,196.28

1311539	PPC 75-125	PPA075C3156921	1	Preferred	\$ 1,196.28
1311540	PPC 75-125	PPA075C3156921	1	Preferred	\$ 1,196.28
1314131	SITE SCAN	SSWEB	1	Essential 8x5	\$ 842.91

**Total Price NOT including tax: \$ 25,008.00**

(any tax required must be included in customer purchase order amount)

**The pricing reflected in this proposal is valid through April 30, 2012.**

Unless otherwise noted this Agreement shall commence on the date acknowledged by both parties signature below and shall be effective for   1   year(s).

**Emerson Network Power, Liebert Services Inc. will invoice in the following manner: Annually Upfront**

**Payment Terms: Net 30 Days**  
**Coverage Dates: 4/19/2012 to 4/18/2013**

Signature of this agreement authorizes Liebert Services to invoice for services mentioned herein and to utilize the provided purchase order number. If a purchase order number is not used, then the customer authorizes and guarantees Liebert Services the payment of such invoices by authority of the signature below.

Thank you for your business.

Proposed By:

Accepted By:

\_\_\_\_\_  
Rita Vannoy Date

X \_\_\_\_\_  
Customer Signature Required Date

\_\_\_\_\_  
Printed Name Title

Purchase Order must be assigned to:  
Emerson Network Power, Liebert Services Inc.  
610 Executive Campus Dr  
Westerville OH 43082

Payment remittance address:  
Emerson Network Power, Liebert Services Inc.  
PO Box 70474  
Chicago, IL 60673

FID# 43-1798453

PO should be mailed to:  
Liebert Products & Services, Columbus Sales Office  
610 Executive Campus Drive  
Suite 110  
Westerville, OH 43082  
Attn: Rita Vannoy

**Please provide the following information:**

Purchase Order Number: \_\_\_\_\_ \* Phone: \_\_\_\_\_

Billing Contact Person: \_\_\_\_\_ Fax #: \_\_\_\_\_

Person Authorizing Payment: \_\_\_\_\_ Phone: \_\_\_\_\_

Billing Company Name: \_\_\_\_\_ Federal Tax ID # \_\_\_\_\_

Billing Address: \_\_\_\_\_ Taxable? Yes No

Billing City, ST Zip: \_\_\_\_\_ If non-taxable, please fax copy of tax exempt certificate

IT Contact Person: \_\_\_\_\_ \*\* Phone: \_\_\_\_\_

\* If a Purchase Order Number is provided, a hard copy must be included.

\*\* IT Contact person required for Network Remote Monitoring contracts.

\* \* COVERAGE DETAILS \* \*

Parts required to bring equipment back to manufacturers specifications are the responsibility of the customer 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 quote is modified in any way. This quote is valid for 30 days from the date of this quote unless otherwise noted. It is understood that if acceptance of this proposal is acknowledged on the buyer's purchase order, such acceptance will be subject to the terms and conditions of this proposal with the same force and effect as though they were included on the buyer's purchase order.

# SERVICES TERMS AND CONDITIONS

Emerson Network Power Liebert Services, Inc. (f/k/a Liebert Global Services, Inc.) is herein referred to as the "Seller" and the customer or person or entity purchasing services ("Services") and parts required for Services ("Parts") from Seller is referred to as the "Buyer." These Services Terms and Conditions, any price list or schedule, quotation, acknowledgment, Seller's scope of work, or invoice from Seller relevant to the provision of Services and all documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of this agreement ("Agreement") governing the sale of Services and Parts by Seller to Buyer. Any discrepancies between the terms of the above referenced documents shall be resolved by Seller. Seller's acceptance of Buyer's purchase order is expressly conditional on Buyer's assent to all of the terms of this Agreement, including terms and conditions that are different from or additional to the terms and conditions of Buyer's purchase order. Buyer's acceptance of the Services and Parts will manifest Buyer's assent to the terms of this Agreement. Seller reserves the right in its sole discretion to refuse orders.

1. **PRICES:** Unless otherwise specified in writing by Seller, the price quoted or specified by Seller for the Services shall remain in effect for thirty (30) days after the date of Seller's quotation. Seller's scope of work or acknowledgment of Buyer's order for the Services, whichever occurs first, provided an unconditional authorization from Buyer for the performance of the Services is received and accepted by Seller within such time period. If authorization is not received by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Services. All prices are exclusive of taxes, which are to be borne by Buyer. Unless otherwise specified by Seller, Parts will be furnished at Seller's then prevailing prices.

2. **TAXES:** Any current or future tax or governmental charge (or increase in same) affecting Seller's costs of Services or costs of production, sale, delivery or shipment of Parts, or which Seller is otherwise required to pay or collect in connection with the provision of Services and Parts, shall be for Buyer's account and shall be added to the price or billed to Buyer separately, at Seller's election.

3. **TERMS OF PAYMENT:** Unless otherwise specified by Seller, terms of payment are net 30 days from date of Seller's invoice. Seller shall have the right, among other remedies, either to terminate this Agreement or to suspend further performance under this Agreement and/or other agreements with Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Seller may preserve its interests in payment by enforcing any applicable mechanic's, construction or similar lien rights. Should Buyer's financial responsibility become unsatisfactory to Seller, cash payments or security satisfactory to Seller may be required by Seller for future performance of Services or provision of Parts. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue performance of Services and provision of Parts.

4. **SHIPMENT AND DELIVERY:** While Seller will use all reasonable commercial efforts to maintain the performance dates acknowledged or quoted by Seller, all performance dates are approximate and not guaranteed. Seller, at its option, shall not be bound to tender delivery of any Parts for which Buyer has not provided shipping instructions and other required information. If the provision of Services or shipment of the Parts is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Seller for any and all storage costs and other additional expenses resulting therefrom. Unless otherwise specified by Seller, for sales of Parts in which the end destination of the Parts is outside of the United States, risk of loss and legal title to the Parts shall transfer to Buyer immediately after the Parts have passed beyond the territorial limits of the United States. For all other shipments, risk of loss and legal title shall pass from Seller to Buyer upon delivery to and receipt by carrier at Seller's shipping point. Notwithstanding the above, risk of loss and legal title to Parts shall transfer to Buyer (i) when delivered by the individual providing the Services, or (ii) at the time Parts are placed in storage due to Buyer's delay or postponement. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier. Shortages or damages must be identified and signed for at the time of delivery.

5. **LIMITED WARRANTY:** Subject to the limitations of Section 6, Seller warrants that it will perform the Services as described in this Agreement and will exercise all reasonable skill, care and due diligence in the performance of the Services and shall perform the Services in accordance with professional practice. Seller warrants that all Services performed shall be free from faulty workmanship for a period of thirty (30) days from completion of Services. To the extent assignable, Seller assigns to Buyer any warranties that are made by manufacturers and suppliers of Parts. EXCEPT AS SPECIFIED ABOVE, PARTS FURNISHED HEREUNDER ARE FURNISHED AS-IS, WHERE-IS, WITH NO WARRANTY WHATSOEVER. THE WARRANTIES SET FORTH IN THIS SECTION ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER WITH RESPECT TO THE SERVICES AND PARTS AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE.

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Seller's), unauthorized modification or alteration, use beyond rated capacity, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not the fault of Seller. To the extent that Buyer or its agents have supplied specifications, information, representation of operating conditions or other data to Seller that is used in (i) the selection of the Services and/or Parts and (ii) the preparation of Seller's quotation and/or scope of work, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein that are affected by such conditions shall be null and void.

Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Services or Parts, either alone or in combination with other parts.

6. **LIMITATION OF REMEDY AND LIABILITY: THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER SHALL BE LIMITED TO, AT SELLER'S SOLE OPTION, EITHER CORRECT PERFORMANCE FOR THAT PORTION OF THE SERVICES FOUND BY SELLER TO BE DEFECTIVE OR REFUND OF THE PRICE PAID FOR SERVICES.**

**SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC SERVICES OR PARTS PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION.**

**BUYER AGREES THAT SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS SHALL NOT EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES.** The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment.

It is expressly understood that any technical advice furnished by Seller with respect to the use of the Parts and/or Services is given without charge, and Seller assumes no obligation or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

7. **INSURANCE:** Seller shall maintain the following insurance or self-insurance coverage: **Worker's Compensation** in accordance with the statutory requirements of the state in which the work is performed. **Employer's Liability** with a limit of liability of \$2,000,000 per occurrence for bodily injury by accident or bodily injury by disease. **Commercial General Liability (CGL)** for bodily injury and property damage with a limit of \$2,000,000 per occurrence and aggregate. CGL includes Contractual Liability. CGL does not include Products and Completed Operations coverage, which is self-insured. **Automobile Liability** insurance that covers usage of all owned, non-owned and leased vehicles and which is subject to a combined single limit per occurrence of \$2,000,000. Automobile Liability insurance includes Contractual Liability, but no special endorsements. **Additional information related to the insurance coverage provided by Seller can be found at [www.marsh.com/mof?client=0900](http://www.marsh.com/mof?client=0900).**

**Buyer expressly acknowledges and agrees that Seller has set its prices and entered into this Agreement in reliance upon the limitations of liability, insurance coverage, and other terms and conditions specified herein, which allocate the risk between Seller and Buyer and form a basis of this bargain between the parties.**

8. **EXCUSE OF PERFORMANCE:** Seller shall not be liable for delays in performance or for non-performance due to acts of God; war; epidemic; fire; flood; weather; sabotage; strikes or labor disputes; civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances; acts or omissions of Buyer, including, without limitation, those specified in Section 19; or any events or causes beyond Seller's reasonable control. Performance of Services and deliveries of Parts may be suspended for an appropriate period of time or canceled by Seller upon notice to Buyer in the event of any of the foregoing, but the balance of this Agreement shall otherwise remain

unaffected as a result of the foregoing. If Seller determines that its ability to supply the total demand for the Services or Parts or to obtain material used directly or indirectly in the manufacture of the Parts is hindered, limited or made impracticable due to causes set forth in the preceding paragraph, Seller may delay performance of Services or allocate its available supply of the Parts among its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

9. **CANCELLATION:** Buyer may cancel orders only upon reasonable advance written notice and upon payment to Seller of Seller's cancellation charges which include, among other things, all costs and expenses incurred and to cover commitments made by the Seller, and a reasonable profit thereon. Seller's determination of such cancellation charges shall be conclusive.

10. **CHANGES:** Buyer may request changes or additions to the Services. In the event such changes or additions are accepted by Seller, Seller may revise the price and performance dates. Seller reserves the right to change designs and specifications for the Parts without prior notice to Buyer, except with respect to Parts being made-to-order for Buyer. Seller shall have no obligation to install or make such change in any Parts manufactured prior to the date of such change.

11. **NUCLEAR/MEDICAL: SERVICES AND PARTS SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS.** Buyer accepts Services and Parts with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchasers or users and to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

12. **ASSIGNMENT:** Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Seller, and any such assignment or delegation, without such consent, shall be void.

13. **INSPECTION:** Buyer shall have ten (10) days from the date of completion of each portion of the Services to inspect the Services, and in the event of any non-conformity, Buyer must give written notice to Seller within said period stating why the Services are not conforming. Failure by Buyer to give such notice constitutes unqualified acceptance of the Services.

14. **BILLABLE SERVICES:** Additional charges will be billed to Buyer at Seller's then prevailing labor rates for any of the following: a) any Services not specified in Seller's quotation, Seller's order acknowledgement, Seller's scope of work, or other documents referenced herein and therein; b) any Services performed at times other than Seller's normal service hours; c) if timely and reasonable site and/or equipment access is denied the Seller service representative; d) if it is necessary, due to local circumstances, to use union labor or hire an outside contractor, Seller Service personnel will provide supervision only and the cost of such union or contract labor will be charged to Buyer; (e) if Service or repair is necessary to return equipment to proper operating condition as a result of other than Seller (i) maintenance, repair, or modification (including, without limitation, changes in specifications or incorporation of attachments or other features), (ii) misuse or neglect, (including, without limitation, failure to maintain facilities and equipment in a reasonable manner), (iii) failure to operate equipment in accordance with applicable specifications, and (iv) catastrophe, accident, or other causes external to equipment; (f) Seller's performance is made more burdensome or costly as a result of Buyer's failure to comply with its obligations herein, or (g) any additional obligations or requirements, including but not limited to those related to insurance requirements, service delivery, building entry or technical training.

15. **DRAWINGS:** Seller's documentation, prints, and drawings ("Documents") (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with this Agreement are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Notwithstanding the foregoing, Buyer may use the Documents in connection with the Services and Parts.

16. **EXPORT/IMPORT:** Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States, and the jurisdictions in which the Seller and Buyer are established or from which Services and Parts may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, or export Parts in violation of such applicable laws, regulations, orders or requirements.

17. **NON-SOLICITATION:** Buyer shall not solicit, directly or indirectly, or employ any employee of Seller during the period any Services are being provided to Buyer and for a period of one (1) year after the last provision of Services.

18. **GENERAL PROVISIONS:** These Services Terms and Conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these Services Terms and Conditions. No change, modification, rescission, discharge, abandonment, or waiver of these Services Terms and Conditions shall be binding upon the Seller unless made in writing and signed on its behalf by a duly authorized representative of Seller. No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement this Agreement shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification or additional terms shall be applicable to this Agreement by Seller's receipt, acknowledgment, or acceptance of purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein. Seller reserves the right to subcontract Services to others. No waiver by either party with respect to any breach or default or of any right or remedy, and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. All typographical or clerical errors made by Seller in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this Agreement shall be governed by the law of the state of Ohio without regard to its conflict of laws principles. Buyer and Seller agree that the proper venue for all actions arising in connection herewith shall be only in the county of Franklin, state of Ohio, and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not apply to this Agreement.

19. **ADDITIONAL SERVICE CONDITIONS:** The Buyer shall furnish to Seller, at no cost, suitable working space, storage space, adequate heat, telephone, light, ventilation, regulated electric power and outlets for testing purposes. The facilities shall be within a reasonable distance from where the Services are to be provided. Seller and its representatives shall have full and free access to the equipment in order to provide the necessary Services. Buyer authorizes Seller to send a service technician or an authorized agent to access any site requested by Buyer to perform Services, including services on different scopes of work and equipment as requested by Buyer. Buyer shall provide the means to shut-off and secure electric power to the equipment and provide safe working conditions. Seller is under no obligation to remove or dispose of Parts or equipment unless specifically agreed upon in Seller's scope of work. Buyer shall immediately inform Seller, in writing, at the time of order placement and thereafter, of any unsafe or hazardous substance or condition at the site, including, but not limited to, the presence of asbestos or asbestos-containing materials, and shall provide Seller with any applicable Material Data Safety Sheets regarding the same. Any losses, costs, damages, claims and expenses incurred by Seller as a result of Buyer's failure to so advise Seller shall be borne by Buyer. Seller, in its sole discretion and without cost or penalty, reserves the right to cancel its performance under this Agreement or any order immediately upon written notice to Buyer following Seller discovery of unsafe or hazardous site substance or condition or any other circumstance altering Seller performance of Services. Buyer shall appoint a representative familiar with the site and the nature of the Services to be performed by Seller to be accessible at all times that Seller personnel are at the site. Seller shall not be liable for any expenses incurred by Buyer in removing, replacing or refurbishing any Buyer equipment or any part of Buyer's building structure that restricts Seller access. Buyer personnel shall cooperate with and provide all necessary assistance to Seller. Seller shall not be liable or responsible for any work performed by Buyer.

20. **INDEMNITY:** Each party shall indemnify and hold the other party harmless from loss, damage, liability or expense resulting from damage to personal property of a third party, or injuries, including death, to third parties to the extent caused by a negligent act or omission of the party providing indemnification or a party's subcontractors, agents or employees during performance of services hereunder. Such indemnification shall be reduced to the extent damage or injuries are attributable to others. The indemnifying party shall defend the other party in accordance with and to the extent of the above indemnification, provided that the indemnifying party is: i) promptly notified by the other party, in writing, of any claims, demands or suits for such damages or injuries; ii) given all reasonable information and assistance by the other party; iii) given full control over any resulting negotiation, arbitration or litigation, including the right to choose counsel and settle claims, or the indemnifying party's obligations herein shall be deemed waived.



## STATIONARY BATTERY SYSTEMS VRLA (SEALED) BATTERY SCOPE OF WORK

### PREFERRED SERVICE (2)

- 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% corrective labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii. Does not include labor for full-string replacement.
- Includes access to Liebert Services Customer Services Network On-Line Internet portal.
- Includes battery recycling as required, with documentation meeting EPA requirements.
- Performed by Liebert factory trained Battery Specialist or Customer Engineers.
- Preventive Maintenance Service scheduled by the customer at the customer's convenience (excluding national holidays).
- Single Jar Replacement Service for Lead Acid Batteries: Includes freight, labor, disposal and batteries. Subject to limitations as stated below.
- For 3-Phase UPS customers, includes one Semi-Annual and one Annual PM.
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

### SERVICE PERFORMED

**\*\*During the initial PM visit, an Annual Service PM must be performed\*\***

#### **Semi-Annual Service**

1. Inspect the appearance and cleanliness of the battery and the battery room. Clean normal jar top dirt accumulation (to be done only with battery off line).
2. Measure and record the total battery float voltage and charging current.
3. Measure and record the overall AC ripple voltage.
4. Measure and record the overall AC ripple current.
5. Visually inspect the jars and covers for cracks and leakage.
6. Visually inspect for evidence of corrosion.
7. Measure and record the ambient temperature.
8. Verify the integrity of the battery rack/cabinet.
9. Measure and record 100% of the jar temperatures.
10. Measure and record the float voltage of all jars.
11. Measure and record all internal ohmic readings.
12. 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, if required. Refer to the manufacturer's literature to determine if re-tightening is required.
2. Measure and record all battery connection resistances in micro-ohms, when applicable.

**Corrective Maintenance Performed as Required**

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

**Conditions for Single Jar Replacement Service for Lead Acid Batteries**

1. The Customer is covered by an Essential or Preferred Contract.
2. The battery string is in overall good health as determined by Liebert Services; the battery string is not beyond expected service years or has had excessive single jar replacements that would make the string unstable.
3. Up to 10% of defective battery jars may be replaced within a 12-month period as exclusively determined by Liebert Services.
4. Contracts have no cash value for future years or full string battery replacements. Single jar replacement is limited to batteries in the original string.
5. Subject to Liebert Services Single Jar Replacement for Lead Acid Batteries Guidelines.



## UNINTERRUPTIBLE POWER SYSTEMS ALL 3-PHASE MODELS SCOPE OF WORK

### PREFERRED SERVICE (2)

- Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Liebert Services' Service city.
- Includes 100% parts coverage (excluding batteries, air filters, and proactive full bank capacitor replacement.)
- Includes 1-800-LIEBERT Customer Response Center.
- Includes access to Liebert Customer Services Network On-Line Internet portal.
- Performed by Liebert factory trained Customer Engineers.
- Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
- Includes one Semi-Annual and one Annual Preventive Maintenance Service scheduled by the customer at the customer's convenience (excluding national holidays).
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

### SERVICE PERFORMED

#### UPS Full Preventive Maintenance Service

##### **Semi-Annual Service**

1. Perform temperature check on all breakers, connections, and associated controls. Repair and/or report all high temperature areas.
2. Perform a complete visual inspection of the equipment including subassemblies, wiring harnesses, contacts, cables, and major components. Check air filters for cleanliness.
3. Check module(s) completely for the following (if applicable):
4. Rectifier and inverter snubber boards for discoloration.
5. Power capacitors for swelling or leaking oil.
6. DC capacitor vent caps that have extruded more than 1/8".
7. Record all voltage and current meter readings on the module control cabinet or the system control cabinet.
8. Measure and record harmonic trap filter currents.

##### **Annual Service Includes the Above, Plus**

1. Check the inverter and rectifier snubbers for burned or broken wires.
2. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration.
3. Check fuses on the DC capacitor deck for continuity (if applicable).
4. With customer approval, perform operational test of the system including unit transfer and battery discharge.
5. Calibrate and record all electronics to system specifications.

6. Install or perform Engineering Field Change Notices (FCN) as necessary.
7. Measure and record all low-voltage power supply levels.
8. Measure and record phase-to-phase input voltage and currents.
9. Review system performance with customer to address any questions and to schedule any repairs.

**Battery Inspection Service - Performed During the UPS Semi-Annual and Annual PM Services.**

1. Check integrity of battery cabinet (if applicable).
2. Visual inspection of the battery cabinet and/or room to include:
  1. Check for NO-OX grease or oil on all connections (if applicable).
  2. Check battery jars for proper liquid level (if flooded cells).
  3. Check for corrosion on all the terminals and cables.
  4. Examine the physical cleanliness of the battery room and jars.
3. Measure and record DC bus ripple voltage (if applicable).
4. Measure and record total battery float voltage.

**Note1: Preventive Maintenance usually requires a shutdown to ensure electrical connection integrity.**

**Note2: Customer should check air filters monthly for cleanliness and replace as necessary.**

**Note3: Above maintenance does not include System Control Cabinet, Power Tie, Breaker Cabinets, Load Bus Sync or Maintenance Bypass Cabinets.**

**Note4: The Battery Inspection Service listed above is only a visual inspection and is not intended to replace a full preventive maintenance program for the battery system.**



## STATIC TRANSFER SWITCH (STS1 AND STS2) SCOPE OF WORK

### PREFERRED SERVICE (2)

- 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% parts coverage.
- Includes access to Liebert Customer Services Network On-Line Internet portal.
- Includes two Preventive Maintenance Service visits scheduled by the customer at the customer's convenience (excluding national holidays).
- Performed by Liebert factory trained Customer Engineers.
- Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

### SERVICE PERFORMED

#### **Full Preventive Maintenance Service**

1. Perform a complete visual inspection of the equipment, including sub-assemblies, wiring harnesses, contacts, cables and major components.
2. Check all mechanical connections for tightness and heat discoloration, making corrections where necessary.
3. Clean any foreign material and dust from internal compartments.
4. Perform a status check of all alarm circuits. (Applicable to STS1 Only).
5. Calibration of the equipment to meet manufacturer's specifications. (Applicable to STS1 Only).
6. Operational checkout of the system to include transfers and proper status indications.
7. Install or perform Engineering Field Change Notices (FCN) as necessary.
8. Return unit to operational service with normal load then measure and verify display indications.

**Note1: Preventive Maintenance usually requires a shutdown to ensure electrical connection integrity.**



**POWER DISTRIBUTION SYSTEMS  
ALL MODELS  
SCOPE OF WORK**

**PREFERRED 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 access to Liebert Customer Services Network On-Line Internet portal.
- Includes one Annual Preventive Maintenance visit scheduled by the customer at the customer's convenience (excluding national holidays).
- Performed by Liebert factory trained Customer Engineers.
- Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
- Includes 100% parts coverage (excluding branch circuit breakers)
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

**SERVICE PERFORMED**

**Full Preventive Maintenance Service**

1. Perform a complete visual inspection of the interior and exterior of equipment for any damaged or broken components.
2. Verify equipment is properly grounded and that the phase, neutral and ground wiring is in accordance with the Installation manual.
3. Check for proper clearance around the unit.
4. Clean interior of equipment for dirt and debris.
5. Inspect all circuit breaker(s), terminal blocks, and ground/neutral bus bar connections for tightness.
6. Inspect junction box terminals for tightness (if applicable).
7. Conduct a thermal scan of interior components, assemblies, and connectors for evidence of overheating and/or burnt components.
8. Inspect all option assemblies, associated cabling/wiring, and connectors for tightness (if applicable).
9. Verify all installed options are operating properly (if applicable).
10. Verify continuity of all fuses (if applicable).
11. Measure voltage and current at each panelboard main input breaker (phases, neutral and ground).
12. Verify all monitoring options (if applicable) are displaying values within +/- 2% of those values measured.
13. Install or perform Engineering Field Change Notices (FCN) as necessary.

**Note1: Preventive Maintenance usually requires a shutdown to ensure electrical connection integrity.**



## SITESCAN SYSTEM SCOPE OF WORK

### ESSENTIAL SERVICE

- Guaranteed 2-hour telephone response, 7 days/week, 24 hours/day. On-site visits to be scheduled.
- Includes 100% parts coverage of equipment under contract.
- Includes 100% labor coverage, for hardware and software under contract, 7 days/week, 24 hours/day, within the 48 contiguous states. (Labor coverage includes phone time, email support, and on-site visits). Includes 100% travel coverage within 300 miles of a Liebert SiteScan Specialist.
- Includes access to Liebert Customer Services Network On-Line Internet portal.
- Performed by Liebert factory trained SiteScan Specialists.
- Includes one Annual Preventive Maintenance Service scheduled by the customer between 8am-5pm, Monday-Friday (excluding national holidays).
- Includes 1-800-LIEBERT Customer Response Center.
- Subject to all Terms & Conditions as noted in the Liebert Services Terms & Conditions.

### SERVICE PERFORMED

#### **Included Software Coverage**

1. During scheduled visit or PM, ensure system is operating according to manufacturer specifications.
2. Provide labor to install purchased software upgrades and/or patch software to the basic system.
3. During scheduled visit or PM, relocate/add new equipment to an existing floor plan graphic and configuration files. (Changes requiring new interface hardware or extensive graphical changes will need to be purchased.)
4. During PM visit, verify any configured Reporting Actions.
5. Perform backup of system files during PM visit, or when LS makes changes to the system.

#### **Preventive Maintenance Service**

1. Consultation with facilities personnel on the status of the SiteScan system.
2. Complete visual inspection of all SiteScan hardware modules covered by contract.
3. Clean and remove dust from assemblies and internal compartments where possible.
4. Test and check 20% of the contact closure points and voltage sense modules for proper alarm enunciation.
5. Verify analog sensors display expected values in appropriate ranges.
6. Check communications from all Liebert devices connected to the SiteScan system.
7. If under contract, perform diagnostics tests of the PC system utilizing resident diagnostic programs to include optimizing the hard drive.

8. Check printer for proper operation (if installed and under contract).
9. Perform any required Engineering Field Change Notices (FCN).
10. Return system to operational status, ensuring that all equipment being monitored is on-line and the SiteScan system is functioning as designed. (Does not include replacing lost software diskettes, or loading/re-loading software on PC equipment not covered by this contract).
11. Leave the work area clean, removing any debris generated while performing required tasks.