

# Proposal for Service

Vertiv Corporation

1/16/2024  
Lori LeClair  
CITY OF COLUMBUS  
1111 EAST BROAD ST  
COLUMBUS, OH, 43205

1/16/2024  
CITY OF COLUMBUS  
1111 EAST BROAD ST  
COLUMBUS, OH, 43205  
CPQ-617362-1

**Lori,**

Thank you for your interest in Vertiv Corporation. 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, Vertiv 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 (614) 841-2709. I look forward to your response and the opportunity to work together to improve your data center investment.

Sincerely,

Jeff Dumond

610 Executive Campus Drive, Suite 110

Westerville OH 43082

**PHONE** (614) 841-2709

**FAX** (614) 841-2750

**EMAIL** Jeff.DuMond@vertiv.com

**Order** CPQ-617362-1

**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.
- We maintain and follow all safety and compliance regulations necessary to keep CE's from harm and protect you, our customers from liability. We care about your safety.

**Standard Maintenance Contracts:**

**Site#: 1245733  
CITY OF COLUMBUS  
1111 EAST BROAD ST  
COLUMBUS, OH  
43205  
US**

Tag #	Description	Model #	Annual PM Qty.	Coverage Type (Coverage Dates)	Coverage Amount
1400757	NPOWER 100-130	37SA100A0C6EA57	2	PREFERRED (04/19/2024) - (04/18/2025)	\$9,249.90
1400760	NPOWER 100-130	37SA100A0C6EA57	2	PREFERRED (04/19/2024) - (04/18/2025)	\$9,249.90
1400762	SEALED BATTERY	37BP100XUJ1BNL	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,948.03
1400763	SEALED BATTERY	37BP100XUJ1BNL	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,948.03
1400769	REM DIST CAB	RDC442SB15S9406	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,068.22
1400766	MBC/SLIM LN CAB	37MB1000AC61S15	1	PREFERRED (04/19/2024) - (04/18/2025)	\$868.87
1409303	SS IGM INTER SM	VSSW-2E	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1409304	SS IGM INTER SM	SITELINK-12	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1409305	SS IGM INTER SM	ARC156-KIT	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1409306	SS IGM INTER SM	SITEIO32	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1400767	MBC/SLIM LN CAB	37MB1000AC61S15	1	PREFERRED (04/19/2024) - (04/18/2025)	\$868.87
1400771	REM DIST CAB	RDC442SB15S9406	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,068.22

**Standard Maintenance Contracts:**

**Site#: 1247650  
CITY OF COLUMBUS  
1601 ARLINGATE LN  
COLUMBUS, OH  
43228  
US**

Tag #	Description	Model #	Annual PM Qty.	Coverage Type (Coverage Dates)	Coverage Amount
1261392	SS CNTRL MOD	1D15815G3	1	ESSENTIAL (04/19/2024) - (04/18/2025)	\$674.63
1311115	NPOWER 100-130	37SA130AAA6S913	2	PREFERRED (04/19/2024) - (04/18/2025)	\$9,249.90
1311116	NPOWER 100-130	37SA130AAA6S912	2	PREFERRED (04/19/2024) - (04/18/2025)	\$9,249.90
1417512	SS IGM INTER SM	166510G1	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1998441	EXM 208V 200	51SA200LAA003BO	1	PREFERRED (04/19/2024) - (04/18/2025)	\$6,295.48
1998443	FPC 75-125	FPA13C412CA4238	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1998444	FPC 75-125	FPA13C412CA4238	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1998445	EXM 480V PERIPH	51MBL43AA0R10CF	1	PREFERRED (04/19/2024) - (04/18/2025)	\$472.37
1998446	SEALED BATTERY	51BPLWXE2L100ER	1	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,476.59
1998447	SEALED BATTERY	51BPLWXE2L100ER	1	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,476.59
1311538	FPC 75-125	PPA075C315S6922	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1311539	FPC 75-125	PPA075C3156921	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1311540	FPC 75-125	PPA075C3156921	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1311111	SEALED BATTERY	37BP130XRJABNS	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,223.05
1311112	SEALED BATTERY	37BP130XRJBNS	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,223.05
1311113	SEALED BATTERY	37BP130XRJABNS	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,223.05
1311114	SEALED BATTERY	37BP130XRJBNS	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$1,223.05
1311536	STATIC TRNS SWT	STC0250A126921	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,694.59
1311537	FPC 75-125	PPA075C315S6921	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,529.94
1314131	SS WEB SOFTWARE	SSWEB	1	PREFERRED (04/19/2024) - (04/18/2025)	\$5,147.87
1314132	SS IGM INTER MD	SITEGATE-E	1	PREFERRED	\$1,018.72

				(04/19/2024) - (04/18/2025)	
1314133	SS IGM INTER MD	SITELINK-12	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,018.72
1314134	SS IGM INTER MD	SITELINK-12	1	PREFERRED (04/19/2024) - (04/18/2025)	\$1,018.72
1314137	SS IGM INTER SM	SITETPI-MWO	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1314138	SS IGM INTER SM	SITETPI-MWO	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16
1314139	SS IGM INTER SM	SITEIO32	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16

Item Sub Total Price: \$55,998.56

**Standard Maintenance Contracts:**

**Site#: 1247645**  
**CITY OF COLUMBUS**  
**90 WEST BROAD ST**  
**COLUMBUS, OH**  
**43215**  
**US**

Tag #	Description	Model #	Annual PM Qty.	Coverage Type (Coverage Dates)	Coverage Amount
1644555	SEALED BATTERY	NRBP4HX1L1A0676	2	Preferred 24x7 (04/19/2024) - (04/18/2025)	\$3,585.88
1644556	APM 90	NRB91CCSA0A4584	2	PREFERRED (04/19/2024) - (04/18/2025)	\$6,165.99
1644557	SS IGM INTER SM	VSSW-4E	1	PREFERRED (04/19/2024) - (04/18/2025)	\$783.16

Item Sub Total Price: \$10,535.03

**Total price not including tax: \$95,936.27**  
*any tax required must be included in customer purchase order*  
**Payment Terms: Net 30 Days**

# SCOPE OF WORK

## SITESCAN SYSTEM

### PREFERRED SERVICE - 1 PM

#### SERVICE SUMMARY

Feature	Detail
2hr Phone Response	Guaranteed 2 hour phone response, 7 days/week, 24 hours/day
On-site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Remedial Service Visit	Includes up to two (2) Annual exempted-billable service visits. Charges will be waived for up to two remedial service visits caused by factors external to SiteScan
Labor	Includes 100% remedial 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, remote service and on-site service).
Parts	Includes 100% remedial parts, software coverage, and Life Extension service of equipment under contract.
Ntegrity Gateway	Includes secure Vertiv Ntegrity Gateway communications appliance (Ntegrity or VPN equivalent required for remote PMs and remote service consultations )
Remote Consultations	Includes up to twelve (12) monthly remote service consultations between 8am-5pm, Monday-Friday (excluding national holidays).
Remote PMs	Includes eleven (11) Monthly remote preventive maintenance inspections between 8am-5pm, Monday-Friday (excluding national holidays).
Preferred Monitoring Service	Includes preferred remote monitoring service.
Online Portal	Includes access to Vertiv Customer Services Network Online Internet portal.
Service Professional	Service performed by Vertiv factory trained monitoring technicians.

#### SERVICE PERFORMED

##### Annual Preventative Maintenance Service 24X7

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. Review alarms for system errors.
5. Perform a Modstat check and bindings verification on all modules.
6. Verify status information from one monitored device per module.
7. Test and check 20% of the contact closure points and voltage sense modules for proper alarm annunciation.
8. Verify analog sensors display expected values in appropriate ranges.
9. Perform any required Engineering Field Change Notices (FCN).
10. Perform minor system updates and configuration changes during the PM visit, such as:
  - Move or rename existing equipment within the system

- Install software patches or purchased add-ons or graphics
  - Program existing SiteScan modules to support new equipment
  - Move the SiteScan Web application to a new server (e.g. Windows OS migration)
  - Alarm, notification, or trend configuration assistance as requested
11. Desktop access required for the following:
    - Perform minor graphic changes.
    - Add or remove units.
    - Update function block logic and bezel graphics as required.
    - Perform remote back-up of custom files and databases, if applicable.
  12. 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 or loading/re-loading software on PC equipment).
  13. Leave the work area clean, removing any debris generated while performing required tasks.
  14. Perform back-up of custom files and databases.
  15. Schedule SiteScan Web software updates and/or hardware Life Extension replacements, if applicable.

### **Monthly Remote Preventative Maintenance Service 8x5**

#### ***The following services will be performed during monthly scheduled Remote PMs:***

1. Consultation with facilities personnel on the status of the SiteScan system (optional electronic logbook within SiteScan may be used for service requests and status updates)
2. Review alarms for system errors.
3. Perform a Modstat check and bindings verification on all modules.
4. Verify status information from one monitored device per module.
5. Perform unit name and/or display changes per customer specification.
6. As required, with Remote Desktop access:
  - Perform minor graphic changes.
  - Add or remove units.
  - Update function block logic and bezel graphics as required.
  - Perform remote back-up of custom files and databases, if applicable.

### **Monthly Remote Service Consultations 8x5**

1. Service consultations include up to one full day (8 hours) of Remote assistance from the primary or backup assigned Technical Support individual, and may be scheduled on-demand 8am-5pm, Monday-Friday (excluding national holidays). Includes support for:
  - Training
  - System Additions
  - Project Management
  - Custom Testing
  - Others as requested by customer

### **Remedial Service - Online or Scheduled 5x8**

1. Ensure system is operating according to manufacturer specifications.
2. Provide basic troubleshooting of external network, BMS, or alarm I/O connectivity issues. (Advanced troubleshooting, follow-up visits, and other problems or delays due to conditions outside of Vertiv Services' control may result in billable charges at Vertiv Services' current published rates)

3. Perform basic system updates and additions at Vertiv Services' discretion, and as time allows during the same remedial visit. Optional services requiring a physical revisit may be performed during an annual PM or billable return visit.
4. Perform backup of system files.

### **Exempted-Billable Service Visits**

Problems due to external equipment failures or changes, site readiness, network, or computer system failures are typically billable. Charges will be waived for a maximum of two troubleshooting trips, annually, attributed to these external factors. Additional visits for failures external to SiteScan will be billable. Vertiv Services is the sole arbiter of problem attribution; however any trip for an annual PM or involving SiteScan hardware replacement will never count as a billable visit.

### **PREFERRED REMOTE MONITORING:**

1. Electronic Alarm Notification (email only)
2. Phone escalation based on customer provided procedure.
3. 24x7 alarm monitoring, trend analysis and diagnostic service.
4. Technical phone support for the Virtual Ntegrity equipment installation, Contract issues, Alarms (clarification, potential causes, nuisance alarms, temporary disable alarm(s)), processes, Communication (Modem/Telephone & Network/Internet) issues, Trouble shooting problems, and Report clarification
5. Site Acceptance Test of the Enterprise Remote Monitoring Service for performance and alarm recognition by the Vertiv Virtual Ntegrity System.
6. Retrieval of data via customer- provided dedicated phone line or Internet.
7. Real-time electronic customer notification of alarms per customer completed site survey.
8. Quarterly Alarm Activity and Status reports.
9. At least one communication check performed every 5 minutes for network communication.
10. Labor and parts warranty on Virtual Ntegrity Gateway during the contract term.

### **Software & Hardware Life Extension Service**

#### **Software Life Extension**

Vertiv Services will provide major and minor SiteScan software upgrades, including installation services, at no charge. Customers must upgrade their SiteScan software to the latest available release prior to initiating a SiteScan Preferred contract

#### **Hardware Life Extension**

Vertiv Services will provide hardware upgrades when required for basic compatibility with new or upgraded Vertiv products which are supported by the latest SiteScan solutions. Hardware replacement to support custom solutions, optional product enhancements, or increased system capacity will be at Vertiv Services' sole discretion.

### **INSTALLATION AND SITE REQUIREMENTS**

#### **General Customer Responsibilities**

1. Cooperation in the completion of a site survey.
2. Installation of all Vertiv monitoring hardware device(s) including mounting the hardware and wiring from monitored equipment to monitoring devices.
3. UPS protected power outlet for monitoring device(s)
4. Provide a primary site contact person responsible for the installation of monitoring /network device(s), development of the alarm notification instructions and contact lists, receiving reports, and authorization of service changes.
5. A valid e-mail address is required to receive alarm reports.
6. Purchase software and hardware required to bring SiteScan System to current version of software and hardware release prior to entering into contract

#### **Network/Internet-Based Communication Requirements for remote service and preferred monitoring for SiteScan Web system**

1. Static IP addresses for the Virtual Ntegrity Gateway and all SNMP based devices.



2. TCP port 443 (outbound only) shall be available for monitoring.
3. A primary site network contact person shall be provided for assigning IP addresses and installation of network drops.

## **ASSUMPTIONS AND CLARIFICATIONS**

SiteScan Web operates as a system. All hardware and software components must be covered at the same contract level (Essential or Preferred).

On any service call, advanced troubleshooting, follow-up visits, and other problems or delays due to conditions outside of Vertiv Services' control may result in billable charges at Vertiv Services' current published rates.

The Ntegrity Gateway is provided at no charge to establish remote connectivity for remote service access. Similar customer-provided or site-to-site VPN services will be considered on a case-by-case basis.

## **TERMS AND CONDITIONS**

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### SITESCAN SYSTEM

### ESSENTIAL SERVICE - 1 PM

#### SERVICE SUMMARY

Feature	Detail
2hr Phone Response	Guaranteed 2 hour phone response, 7 days/week, 24 hours/day
On-site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer between 8am-5pm, Monday-Friday (excluding national holidays).
Remedial Service Visit	Includes up to one (1) Annual exempted-billable service visit. Charges will be waived for up to two remedial service visits caused by factors external to SiteScan
Labor	Includes 100% remedial 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).
Parts	Includes 100% remedial parts coverage of equipment under contract.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Service Professional	Service performed by Vertiv factory trained monitoring technicians.

#### SERVICE PERFORMED

##### Annual Preventative Maintenance Service 8x5

1. Consultation with facilities personnel on the status of the SiteScan system.
2. Complete visual inspection of all SiteScan hardware modules covered by contract (requires safe, clear physical access to modules. Additional charges may apply for units located in unoccupied spaces or internal to other equipment).
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 annunciation.
5. Verify analog sensors display expected values in appropriate ranges.
6. Check communications from all Vertiv devices connected to the SiteScan system.
7. Perform any required Engineering Field Change Notices (FCN).
8. Perform minor system updates and configuration changes during the PM visit, such as:
  - Move or rename existing equipment within the system
  - Install software patches or purchased add-ons or graphics
  - Program existing SiteScan modules to support new equipment
  - Move the SiteScan Web application to a new server (e.g. Windows OS migration)
  - Alarm, notification, or trend configuration assistance as requested
9. Desktop access required for the following :
  - Perform minor graphic changes.
  - Add or remove units.
  - Update function block logic and bezel graphics as required.

- Perform back-up of custom files and databases.
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)
  11. Leave the work area clean, removing any debris generated while performing required tasks.
  12. Perform back-up of custom files and databases.
  13. Schedule SiteScan Web software updates and/or hardware Life Extension replacements, if applicable.

### **Remedial Service Visits (scheduled)**

1. Ensure system is operating according to manufacturer specifications.
2. Provide basic troubleshooting of external network, BMS, or alarm I/O connectivity issues.
3. Perform basic system updates and additions at Vertiv Services' discretion, and as time allows during the same remedial visit. Optional services requiring a revisit may be performed during an annual PM or billable return visit.
4. Perform backup of system files.

### **Exempted-Billable Service Visits**

Problems due to external equipment failures or changes, site readiness, network, or computer system failures are typically billable. Charges will be waived for a maximum of one troubleshooting trip, annually, attributed to these external factors. Additional visits for failures external to SiteScan will be billable. Vertiv Services is the sole arbiter of problem attribution; however any trip for an annual PM or involving SiteScan hardware replacement will never count as a billable visit.

## **ASSUMPTIONS AND CLARIFICATIONS**

SiteScan Web operates as a system. All hardware and software components must be covered at the same contract level (Essential or Preferred).

On any service call, advanced troubleshooting, follow-up visits, and other problems or delays due to conditions outside of Vertiv Services' control may result in billable charges at Vertiv Services' current published rates.

## **CUSTOMER RESPONSIBILITIES**

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- **Point of Contact:** Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- **Scheduling:** Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- **Site Access:** Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- **Equipment Access:** Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- **Shutdown:** Service may require shutdown of load to ensure electrical connection integrity.
- **Notification:** If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## **TERMS AND CONDITIONS**

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.



## SCOPE OF WORK

### UNINTERRUPTIBLE POWER SYSTEMS

#### APM UPS ONLY

#### PREFERRED SERVICE - 2 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Annual and 1 Semi-Annual Preventive Maintenance Services on Vertiv UPS and Vertiv internal batteries scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage including internal batteries (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Internal Battery Coverage	Includes parts, labor, disposal and battery jars as required - up to 10% of the battery jars per year, not accumulated over contract term (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.
Battery Recycling	Includes battery recycling as required, with documentation meeting EPA requirements.

### SERVICE PERFORMED

#### UPS Full Preventive Maintenance Service

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

1. Perform a 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 sub-assemblies, wiring harnesses, contacts, cables and major components.
3. Check air filters for cleanliness. (if applicable)
4. Check rectifier and inverter snubber boards for discoloration.
5. Record all voltage and current meter readings on the module control cabinet or the system control cabinet.

##### **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. Check or perform Engineering Field Change Notices (FCN) as necessary.
7. 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. Check for 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 units only)**

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

1. Inspect the appearance and cleanliness of the battery and the battery room.
2. Clean normal cell top dirt accumulation (to be done only with battery off line).
3. Measure and record the total battery float voltage and charging current.
4. Measure and record overall AC ripple current.
5. Measure and record overall AC ripple voltage.
6. Visually inspect the jars and covers for cracks and leakage.
7. Visually inspect for evidence of corrosion.
8. Measure and record ambient temperature.
9. Verify the condition of the ventilation equipment, if applicable.
10. Verify the integrity of the battery rack/cabinet.
11. Measure and record 100% of the cell temperatures.
12. Measure and record the float voltage of all cells. Measure and record all internal impedance readings.
13. 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**

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

### **ASSUMPTIONS AND CLARIFICATIONS**

Parts coverage excludes air filters, proactive full bank capacitor replacement and fan replacement.

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

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

All battery checks are recorded through the Field DB 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 Field DB.

### **CUSTOMER RESPONSIBILITIES**

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.

- **Scheduling:** Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- **Site Access:** Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- **Equipment Access:** Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- **Shutdown:** Service may require shutdown of load to ensure electrical connection integrity.
- **Notification:** If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## **TERMS AND CONDITIONS**

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### UNINTERRUPTIBLE POWER SYSTEMS

#### EXM UPS ONLY

#### PREFERRED SERVICE - 1 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Internal Battery Coverage	Includes parts, labor, disposal and battery jars as required - up to 10% of the battery jars per year, not accumulated over contract term (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.
Battery Recycling	Includes battery recycling as required, with documentation meeting EPA requirements.

### SERVICE PERFORMED

#### UPS Full Preventive Maintenance Service

1. Perform a 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 sub-assemblies, wiring harnesses, contacts, cables and major components.
3. Check air filters for cleanliness. (if applicable)
4. Record all voltage and current meter readings on the display.
5. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration.
6. With customer approval, perform operational test of the system including unit transfer and battery discharge.
7. Calibrate and record all electronics to system specifications.
8. Check or perform Engineering Field Change Notices (FCN) as necessary.
9. Record phase-to-phase input voltage and currents.
10. Review system performance with customer to address any questions and to schedule any repairs.



## **Internal Battery Full Preventive Maintenance Service (applicable to EXM models with internal batteries only)**

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.
3. Measure and record overall AC ripple current.
4. Measure and record overall AC ripple voltage.
5. Visually inspect the jars and covers for cracks and leakage.
6. Visually inspect for evidence of corrosion.
7. Measure and record ambient temperature.
8. 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.
13. Provide a detailed written report noting any deficiencies and corrective action needed, taken and/or planned.
14. Re-tighten all battery connections to the battery manufacturer's specifications, offline only.

### **Corrective Maintenance Performed as Required**

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

## **ASSUMPTIONS AND CLARIFICATIONS**

Parts coverage excludes air filters, proactive full bank capacitor replacement and fan replacement.

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

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

All battery checks are recorded through the Field DB 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 Field DB.

## **CUSTOMER RESPONSIBILITIES**

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- **Point of Contact:** Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- **Scheduling:** Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- **Site Access:** Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- **Equipment Access:** Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- **Shutdown:** Service may require shutdown of load to ensure electrical connection integrity.
- **Notification:** If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### STATIC TRANSFER SWITCH

#### (STS1 AND STS2)

#### PREFERRED SERVICE - 1 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.

### SERVICE PERFORMED

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

### CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.

- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### UNINTERRUPTIBLE POWER

### SYSTEMS ALL 3-PHASE MODELS

### PREFERRED SERVICE - 2 PM

## SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Annual and 1 Semi-Annual Preventive Maintenance Services, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv's Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory-trained and authorized technician equipped with Vertiv Proprietary tools and software. Vertiv CEs and Vertiv Partners are the only approved OEM service providers for Vertiv products.

## VERTIV PROPRIETARY SERVICE TOOLS AND SOFTWARE

Vertiv Customer Engineers (CEs) are the only authorized, factory-trained and OEM-supported service providers for Vertiv equipment with access to Vertiv's proprietary service tools and software to ensure optimal equipment performance.

- Using proprietary software PPvis™, Paramset™, and WinSVT™ CEs apply Vertiv's knowledge base to diagnose, configure and optimize your Vertiv equipment.
- Vertiv is the only authorized source for critical proprietary firmware updates providing your equipment the latest version of operational firmware to ensure equipment is running at optimal performance and efficiency levels.
- Vertiv exclusively enables:
  - Access to OEM engineering support and product enhancements.
  - Optimized methods of procedure for efficient service supported by proprietary documentation.
  - Improved MTBR and MTTR.
  - Root cause forensic analysis.
  - Continual improvements with tested and certified updates for software and hardware improvements throughout the equipment's lifecycle.
  - CEs to be equipped with proprietary service documentation that provides access to the latest method of procedures and event data to return equipment online in the most efficient manner possible.
  - Benchmarking against the entire service population to identify service trends and provide solutions rapidly or before they occur, reducing or eliminating customer events and outages.
- Vertiv Services CEs are trained in NFPA and OSHA best practices, and all processes and procedures strictly comply with NFPA 70A and 70E industry standards.

## 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.
3. Check air filters for cleanliness. (if applicable)
4. Check rectifier and inverter snubber boards for discoloration.
5. Conduct diagnostic review with proprietary access to internal event logs.
6. Record all voltage and current meter readings on the module control cabinet or the system control cabinet.
7. Measure and record the dc float voltage at the UPS and at the battery
8. Measure and record the ripple voltage and current

#### *Annual Service*

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

#### **Battery Inspection Service - Performed During the UPS Annual PM Service**

1. Check integrity of battery cabinet (if applicable).
2. Perform a visual inspection of the battery, battery cabinet or rack and battery room and note any deficiencies and recommendations.

## ASSUMPTIONS AND CLARIFICATIONS

Parts coverage excludes batteries, air filters, proactive full bank capacitor and proactive full fan replacement.

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

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

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.

Modular designed UPS systems may have less accessibility to listed "if applicable" checks above due to the design and usage of certain UPS systems.

## CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Customer Resolution Center at 1-800-543-2378.
- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### UNINTERRUPTIBLE POWER SYSTEMS

### PERIPHERALS MAINTENANCE BYPASS CABINET MODULE BATTERY DISCONNECT, LOAD BUS SYNC, POWER TIE, SLIM LINE DISTRIBUTION CABINET

### PREFERRED SERVICE - 1 PM

## SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.

## SERVICE PERFORMED

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 alarm circuits. (If Applicable).
5. Calibration of the equipment to meet manufacturer's specifications (if applicable).
6. Operational checkout of the system to include transfers and proper status indications.
7. Check or perform Engineering Field Change Notices (FCN) as necessary.
8. Return unit to operational service with normal load then measure and verify display indications.

## ASSUMPTIONS AND CLARIFICATIONS

Includes 100% parts coverage, excluding circuit breakers and switches.

## CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:



- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

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## SCOPE OF WORK

### POWER CONDITIONING

### POWER CENTER (PPC/FPC)

### PREFERRED SERVICE - 1 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.

### SERVICE PERFORMED

1. Perform a complete visual inspection of the equipment including internal sub-assemblies, wiring harnesses, contactors, cables, major components, and check for proper clearance around the unit.
2. Perform an Infrared Scan (IR Scan) and verify all transformer, terminal block, and ground/neutral bus bar connections for tightness
3. Perform an Infrared Scan (IR Scan) and verify all circuit breakers including the panelboard(s) branch circuits for tightness
4. Perform an Infrared Scan (IR Scan) and verify high and low voltage junction box terminals for tightness (if applicable)
5. Perform an Infrared Scan (IR Scan) and verify all option wiring for tightness. (Spike suppressor, ground fault, phase rotation/loss)
6. Verify system control power fuses. (Equipment MUST be de-energized)
7. Verify grounding electrode conductor and any isolated grounds.
8. Verify EPO lamps are illuminated (if applicable).
9. Perform operational test of the optional local EPO. (Equipment MUST be able to be de-energized)
10. Record all the electrical data via the local display (if applicable). Ensure all values are within the specification.
11. Verify specified restart capabilities (manual or auto-restart).
12. Verify all monitoring options (if applicable) are displaying values within preset parameters.
13. Check or perform Engineering Field Change Notices (FCN) as necessary.
14. Configuration of the LDM/LDMF (for newly installed branch circuit breakers, if applicable).
  1. Verify firmware and update as required.
  2. Verify the location, alarm set points, number of poles, and address of every newly installed breaker.

3. Verify the CT ratio for every newly installed breaker.
4. Demonstrate use of software tools. (if applicable)
5. (Excludes interoperability with SiteScan and Building Management Systems)
6. Save the configuration file to a laptop as a backup for customer. (If applicable)

## ASSUMPTIONS AND CLARIFICATIONS

Parts coverage excludes branch circuit breakers.

## CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### POWER DISTRIBUTION SYSTEMS

#### ALL MODELS

#### PREFERRED SERVICE - 1 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Parts	Includes parts coverage (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.

### 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 preset parameters.
13. Check or perform Engineering Field Change Notices (FCN) as necessary.
14. Configuration of the LDM/LDMF (For Newly installed branch circuit breakers).
  1. Verify firmware and update as required.

2. Verify the location, alarm set points, number of poles, and address of every newly installed breaker.
3. Verify the CT ratio for every newly installed breaker.
4. Demonstrate use of software tools. (if applicable)
5. (Excludes interoperability with SiteScan and Building Management Systems)
6. Save the configuration file to a laptop as a backup for customer. (If applicable)

## ASSUMPTIONS AND CLARIFICATIONS

Parts coverage excludes branch circuit breakers.

## CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### STATIONARY BATTERY SYSTEMS

#### VRLA (SEALED) BATTERY

#### PREFERRED SERVICE - 2 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Annual and 1 Semi-Annual Preventive Maintenance Services, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Internal Battery Coverage	Includes parts, labor, disposal and battery jars as required - up to 10% of the battery jars per year, not accumulated over contract term (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.
Battery Recycling	Includes battery recycling as required, with documentation meeting EPA requirements.

### 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 cells.
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.
13. Verify approval for Battery Life program.

### **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 Vertiv 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 Vertiv 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.

## **ASSUMPTIONS AND CLARIFICATIONS**

Does not include battery or full-string replacement labor or parts coverage.

## **CUSTOMER RESPONSIBILITIES**

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- **Point of Contact:** Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- **Scheduling:** Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- **Site Access:** Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- **Equipment Access:** Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- **Shutdown:** Service may require shutdown of load to ensure electrical connection integrity.
- **Notification:** If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## **TERMS AND CONDITIONS**

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

## SCOPE OF WORK

### STATIONARY BATTERY SYSTEMS

#### VRLA (SEALED) BATTERY

#### PREFERRED SERVICE - 1 PM

### SERVICE SUMMARY

Feature	Detail
On-Site Service	Includes 1 Preventive Maintenance Service, scheduled by the customer at the customer's convenience (excluding national holidays).
Response Time	Guaranteed 4-hour on-site emergency response, 7 days/week, 24 hours/day, within 150 miles of a Vertiv Services' Service City.
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal.
Internal Battery Coverage	Includes parts, labor, disposal and battery jars as required - up to 10% of the battery jars per year, not accumulated over contract term (limits may apply; see Assumptions and Clarifications, as applicable, for more details).
Labor & Travel	Includes 100% labor and travel coverage 7 days/week, 24 hours/day, within the 48 contiguous states and Hawaii.
Service Professional	Performed by Vertiv factory trained and authorized technician. Vertiv Services is the OEM service provider for Liebert products.
Battery Recycling	Includes battery recycling as required, with documentation meeting EPA requirements.

### SERVICE PERFORMED

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

#### PM 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 cells.
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.
13. Verify approval for Battery Life program.



14. 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.
15. 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 Vertiv 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 Vertiv 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.

## **ASSUMPTIONS AND CLARIFICATIONS**

Does not include battery or full-string replacement labor or parts coverage.

## **CUSTOMER RESPONSIBILITIES**

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- **Point of Contact:** Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- **Scheduling:** Make dates available for scheduling service. All visits must be requested 10 business days in advance of need by contacting the Vertiv Services Customer Resolution Center at 1-800-543-2378.
- **Site Access:** Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv service personnel.
- **Equipment Access:** Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv service personnel of any special requirements for equipment access including lifts, ladders, etc.
- **Shutdown:** Service may require shutdown of load to ensure electrical connection integrity.
- **Notification:** If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 24-hours prior to scheduled event.

## **TERMS AND CONDITIONS**

Subject to all Terms & Conditions as noted in the Vertiv Services Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

**Order Number: CPQ-617362-1**

Purchase Order must be assigned to:  
Vertiv Corporation  
505 N. Cleveland Avenue.  
Westerville, OH 43082

Payment remittance address:  
Vertiv Corporation  
PO Box 70474  
Chicago, IL 60673

FID# 31-0715256

PO should be e-mailed or faxed with signed proposal to:  
Vertiv Corporation c/o Jeff Dumond  
Attn: Jeff Dumond  
Email: Jeff.DuMond@vertiv.com  
Fax: (614) 841-2750

**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:  Web Billing (Attach Instructions)  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 30 days from the date of this Proposal unless otherwise noted. INFORMATION TO BUYER: This order between the Buyer and Seller is limited to Seller's Terms and Conditions located at termsconditions.vertivco.com unless a formal agreement governing this Purchase Order/transaction has been executed by the parties, in which case the Terms and Conditions of the signed agreement shall govern. Seller hereby objects to all Buyer's terms and conditions received by Seller and/or issued by Buyer.

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.

Proposed By:

Accepted By:

\_\_\_\_\_  
Jeff Dumond Date

\_\_\_\_\_  
Buyer Signature Required Date

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

**Vertiv Corporation**  
**TERMS AND CONDITIONS OF SALE**

Vertiv Corporation is herein referred to as the "Seller" and the customer or person or entity purchasing goods and/or services ("Goods") and/or parts required for services ("Parts") or licensing software and/or firmware, which are preloaded, or to be used with Goods ("Software") from Seller is referred to as the "Buyer." These Terms and Conditions, any price list or schedule, quotation, acknowledgment, Seller's scope or statement of work, or invoice from Seller relevant to the sale of the Goods, Parts and licensing of Software by Seller, and all associated terms, conditions and documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of the agreement ("Agreement") governing the sale of Goods, Parts, and/or license of Software 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 Seller's terms and conditions of sale, 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 Goods, Parts, and/or Software 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 Goods, Parts and/or Software 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 Goods, whichever occurs first, provided an unconditional authorization from Buyer for the shipment or performance of the Goods and/or Parts, and/or Software is received and accepted by Seller within such time period. If such authorization is not received by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Goods, Parts and/or Software to Seller's price for the Goods, Parts, and/or Software at the time of Seller's shipment or performance thereof. All prices and licensee fees are exclusive of taxes, transportation and insurance, which are to be borne by Buyer. Seller reserves the right to correct any obvious errors in specifications or prices and, in the event of a force majeure event, make equitable adjustments in Seller's price for the Goods, Parts, and/or Software prior to Seller's shipment or performance thereof. Unless otherwise specified by Seller, Parts that are required for the performance of services will be furnished at Seller's then-prevailing prices. A service charge of \$19.99 will be added to all orders which, excluding shipping charges, taxes, and insurance, do not meet the minimum order value of \$750.00. The service charge amount and/or minimum order value may be changed by Seller at any time, without notice.

2. **TAXES:** Any current or future tax, duty, tariff or governmental charge (or increase in same) affecting Seller's costs of production, sale, services or delivery or shipment of Goods, Parts, and/or Software, or which Seller is otherwise required to pay or collect in connection with the sale, purchase, delivery, performance, storage, processing, use or consumption of Goods, Parts, and/or Software, 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 are net thirty (30) days from date of Seller's invoice in U.S. currency. Seller shall have the right, among other remedies, either to terminate this Agreement or to suspend further performance under this 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, labor, 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 deliveries or performance of Goods, Parts, and/or Software. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue deliveries or performance. Buyer hereby grants Seller a security interest in all Goods, Parts, and/or Software sold to Buyer by Seller, which security interest shall continue until all such Goods, Parts, and/or Software are fully paid for, and Buyer, upon Seller's demand, will execute and deliver to Seller such instruments as Seller requests to protect and perfect such security interest.

4. **SHIPMENT AND DELIVERY:** While Seller will use all reasonable commercial efforts to maintain the delivery date(s) and/or performance dates acknowledged or quoted by Seller, all shipping dates and/or performance dates are approximate and not guaranteed. Seller reserves the right to make partial shipments. Seller, at its option, shall not be bound to tender delivery of any Goods, Parts, and/or Software for which Buyer has not provided shipping instructions and other required information. If the shipment or performance of the Goods, Parts, and/or Software 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. For sales in which the end destination of the Goods, Parts, and/or Software is outside of the United States (except for those international sales to Seller's affiliated companies), risk of loss and legal title to the Goods, Parts, and/or Software shall transfer to Buyer immediately after the Goods, Parts, and/or Software have passed beyond the territorial limits of the United States. For international sales to Seller's affiliated companies, all shipments of Goods, Parts, and/or Software are made on a Delivered at Place (DAP) basis, per Incoterms 2020, with freight charges from Seller's facility to destination terminal invoiced to buyer either on a Prepaid or PPD/Add basis, as agreed to by Seller and Buyer. All other shipments of Goods, Parts, and/or Software are made on an Ex Works (EXW) Seller's Shipping Point basis, per Incoterms 2020, with Seller responsible to load goods on Buyer's nominated vehicle. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier. Notwithstanding the above, risk of loss and legal title to Parts shall transfer to Buyer (i) upon delivery by the Seller, or (ii) at the time Parts are placed in storage due to Buyer's delay or postponement. Shortages or damages must be identified and signed for at the time of delivery. Requests for changes in quoted transportation modes will not be made or accepted on orders already processed unless otherwise mutually agreed upon by Seller and Buyer. Requests for changes in quoted transportation modes to orders already accepted by Seller will be subject to new freight terms and billed at the price in effect at the time of the request for change. Any request for changes to quoted transportation modes must be submitted in writing to Seller and are subject to Seller's acceptance and adjustment in freight price. The transportation costs quoted by Seller may be changed by Seller without notice in order to reflect Seller's prices at the time of shipment and will reflect any market increase in transportation costs. If a price for delivery has been quoted, any changes at the destination for transportation modes,

spotting, switching, handling, storage and other accessorial services and demurrage shall be borne by the customer, and any related increase in transportation charges shall be added to the quoted price.

5. **LIMITED WARRANTY:** Subject to the limitations of Section 6, Seller's standard warranty that is applicable to the Goods and/or Software at the time of purchase is the only warranty applicable to the sale of Seller's Goods and/or Software and its terms, conditions and limitations are incorporated by reference herein and Seller warrants that it will perform the services as described in these terms and conditions and will exercise all reasonable skill, care and due diligence in the performance of the services. Seller warrants that all services performed shall be free from faulty workmanship for a period of thirty (30) days from completion of services. Thermal Solution Components, including but not limited to, fans, air-to-air heat exchangers, air conditioners, emergency DC vent systems and filtered thermal vent systems are warranted to be free from defects in material and workmanship for a period of twelve (12) months from date of shipment, or manufacturer's pass through warranty, whichever is longer, provided the following conditions are met: (i) Semi-annual preventive maintenance logs are maintained by Buyer and such logs are available to Seller upon request; and (ii) Input voltage to the air conditioner unit does not vary by greater than +/-10%; and (iii) in the event of accidental or intentional shut-off, a Thermal Solution Component will not be restarted for at least five (5) minutes; and (iv) the refrigerant specified on the unit nameplate label will be the only refrigerant utilized in the air conditioner unit; and, (v) Buyer complies with all installation, operations and maintenance instructions provided by Seller. Goods, Parts and/or Software purchased by Seller from a third party for resale or license to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. To the extent assignable, Seller assigns to Buyer any warranties that are made by manufacturers and suppliers of such Resale Products. EXCEPT AS SPECIFIED ABOVE, RESELLER PRODUCTS FURNISHED HEREUNDER ARE FURNISHED AS-IS, WHERE-IS, WITH NO WARRANTY WHATSOEVER. THE WARRANTY SET FORTH IN THIS SECTION 5 AND THE WARRANTY SET FORTH IN SECTION 8 ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER WITH RESPECT TO THE GOODS AND/OR SOFTWARE 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, AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE. SELLER'S WARRANTY EXTENDS ONLY TO PURCHASERS WHO BUY FOR INDUSTRIAL OR COMMERCIAL USE. 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 in the selection or design of the Goods and/or Software and 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 Goods, Parts, and/or Software, either alone or in combination with other products/components.

6. **LIMITATION OF REMEDY AND LIABILITY:** THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER (OTHER THAN THE WARRANTY PROVIDED UNDER SECTION 8) SHALL BE LIMITED TO REPAIR, CORRECTION OR REPLACEMENT, OR REFUND OF THE PURCHASE PRICE UNDER SECTION 5. 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 GOODS, PARTS, AND/OR SOFTWARE 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 Goods, Parts and/or Software 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 per location aggregate. 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. 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. **PATENTS AND COPYRIGHTS:** Subject to the limitations of the second paragraph of Section 6 and any and all associated terms, conditions and documents incorporated by specific reference by Seller, Seller warrants that the Goods and/or Software sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of shipment. This warranty is given upon the condition that Buyer promptly notify Seller of any claim or suit involving Buyer in which such infringement is alleged and cooperate fully with Seller and permit Seller to control completely the defense, settlement or compromise of any such allegation of infringement. Seller's warranty as to utility patents only applies to infringement arising solely out of Buyer's operation according to Seller's specifications and instructions of such Goods and/or Software.

In the event (i) such Goods and/or Software are held to infringe such a U.S. patent or copyright in such suit, and the use of such Goods and/or Software is enjoined, or (ii) a compromise or settlement is made by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods and/or Software, or replace them with non-infringing Goods and/or Software, or modify same to become non-infringing, or grant Buyer a credit for the depreciated value of such Goods and/or Software and accept return of them. In the event of the foregoing, Seller may also, at its option, cancel the agreement as to future deliveries of such Goods and/or Software, without liability. Except as otherwise provided herein, Seller or applicable third party licensor to Seller maintains all right, title and interest in and to the intellectual property in the Goods, Parts, and/or Software.

9. **EXCUSE OF PERFORMANCE:** Seller shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; viral outbreaks, disease, pandemic, widespread sickness, or 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; unavailability of or delays in the supply of materials, components, parts or labor required for the design and/or manufacture of Goods, Software or the performance by Seller hereunder; default of suppliers; or unforeseen circumstances, acts or omissions of Buyer, or any events or causes beyond Seller's reasonable control. Deliveries or other performance 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 Goods, Parts, and/or Software, or to obtain material used directly or indirectly in the manufacture of the Goods, Parts, and/or Software, is hindered, limited or made impracticable due to causes set forth in this paragraph, Seller may delay or cancel performance, make equitable adjustments in Seller's price for the Goods, Parts, and/or Software, and/or allocate its available supply of the Goods, Parts, Software, and/or such material (without obligation to acquire other supplies of any such Goods, Parts, Software, or material) among its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

10. **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.

11. **CHANGES:** Buyer may request changes or additions to the Goods, Parts, and/or Software consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price, license fees, and dates of delivery and/or performance dates. Seller reserves the right to change designs and specifications for the Goods, Parts, and/or Software without prior notice to Buyer, except with respect to Goods, Parts, and/or Software being made to order for Buyer. Seller shall have no obligation to install or make such change in any Goods, Parts, and/or Software manufactured prior to the date of such change.

12. **NUCLEAR/MEDICAL:** GOODS, PARTS, AND SOFTWARE SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS. Buyer accepts Goods, Parts, and Software 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.

13. **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, without such consent, shall be void.

14. **SOFTWARE:** Notwithstanding any other provision herein to the contrary, Seller or applicable third party licensor to Seller shall retain all rights of ownership and title in its respective Software, including without limitation all rights of ownership and title in its respective copies of such Software. Except as otherwise provided herein, Buyer is hereby granted a nonexclusive, non-transferable royalty free license to use the Software incorporated into the Goods solely for purposes of Buyer properly utilizing such Goods purchased from Seller. All other Software shall be furnished to, and used by, Buyer only after execution of Seller's (or the licensor's) applicable standard license agreement, the terms of which are incorporated herein by reference.

15. **TOOLING:** Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interest in, or rights to possession or removal, or prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

16. **DOCUMENTATION:** Seller shall provide Buyer with that data/documentation which is specifically identified in Seller's quotation. If additional copies of data/documentation are to be provided by Seller, it shall be provided to Buyer at Seller's applicable prices then in effect.

17. **INSPECTION/TESTING:** Buyer, at its option and expense, may observe the inspection and testing by Seller of the Goods and/or Software for compliance with Seller's standard test procedures prior to shipment, which inspection and testing shall be conducted at Seller's plant at such reasonable time as is specified by Seller. Any rejection of the Goods and/or Software must be made promptly by Buyer before shipment. Tests shall be deemed to be satisfactorily completed and the test fully met when the Goods and/or Software meet Seller's criteria for such procedures. If Buyer does not inspect the Goods and/or Software at Seller's plant as provided herein, Buyer shall have ten (10) days from (i) the date of delivery of Goods, Parts, and/or Software and (ii) from the date of completion of each portion of the services to inspect the Goods, Parts, and/or Software, and in the event of any non-conformity, Buyer must give written notice to Seller within said period stating why the Goods, Parts, and/or Software are not conforming. Failure by Buyer to give such notice constitutes unqualified acceptance of the Goods, Parts, and/or Software. Buyer's sole remedy for non-conforming services shall be correct performance of services incorrectly performed by Seller.

18. **RETURNED GOODS:** Advance written permission to return Goods, Parts, and/or Software must be obtained from Seller in accordance with Seller's then current Return Material Authorization (RMA) procedures and a return authorization number issued. Such Goods, Parts, and/or Software must be (i) current, unused, catalogued Goods, Parts, and/or Software, still in original packaging (ii) free of all liens, encumbrances, or other claims, and (iii) shipped, transportation prepaid, to Seller's specified location. Returns made without proper written permission will not be accepted by Seller. Seller reserves the right to inspect Goods, Parts, and/or Software prior to authorizing return.

19. **BILLABLE SERVICES:** Additional charges will be billed to Buyer at Seller's then prevailing labor rates and Parts prices 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.

20. **DRAWINGS:** Seller's documentation, prints and drawings (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. Possession of such prints or drawings does not convey to Buyer any rights or license, and Buyer shall return all copies (in whatever medium) of such prints or drawings to Seller immediately upon request therefor. Notwithstanding the foregoing, Buyer may use the documentation, prints and drawings in connection with the use of the Goods, Parts, and/or Software.

21. **BUYER SUPPLIED DATA:** To the extent that Seller has been provided by, or on behalf of, Buyer any specifications, description of operating conditions or other data and information in connection with the selection or design of the Goods, Parts, and/or Software, and/or the provision of services, and the actual operating conditions or other circumstances differ from those provided by Buyer and relied upon by Seller, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

22. **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 European Union, and the jurisdictions in which the Seller and Buyer are established or from which Goods, Parts, Software, and services may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, export, Goods, Parts, or Software in violation of such applicable laws, regulations, orders or requirements.

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

24. **GENERAL PROVISIONS:** These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of this Agreement. No change, modification, rescission, discharge, abandonment, or waiver of these 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 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.

25. **DATA COLLECTION AND USE:** By using the Goods, Parts and/or Software, Buyer grants Seller, its affiliates, subsidiaries, and service providers, a non-exclusive, irrevocable, royalty free, worldwide right and license to collect, compile, retain, use, reproduce, and create derivative works of, your non-personal information and data, which includes without limitation, all data, materials, reports, text, sound, video, image files, software or any other information ("Service Data") that is provided by, or on behalf of, Buyer, or collected or compiled by Seller, its affiliates, subsidiaries, or service providers through the Goods, Parts, and/or Software. Seller, its affiliates, subsidiaries, and service providers may collect, compile, retain, use, reproduce, and create derivative works of Service Data: (i) to provide services, support, and maintenance; (ii) to develop and improve products, software, and services; and (iii) for scientific and technical research and marketing purposes. Buyer is solely responsible for the Service Data, and Buyer will secure and maintain all rights necessary for Seller, its affiliates, subsidiaries, and service providers to process and use Service Data as described in this paragraph without violating the rights of any third party or otherwise obligating Seller, its affiliates, subsidiaries,

and service providers to Buyer or any third party. The Service Data will be aggregated with other information, materials, or data collected or compiled by, or provided to, Seller, its affiliates, subsidiaries, or service providers and anonymized, such that the Service Data will not intentionally reveal Buyer's identity. In accordance with applicable law, Service Data may be transferred, transmitted, or distributed to, stored, and processed in, cloud computing environments in the United States or any other country in which Seller, its affiliates, subsidiaries, or service providers maintain operations. By using the Goods, Parts, and/or Software, Buyer agrees to such use, transfer, transmission, distribution, storage, and processing of the Service Data. Seller, its affiliates, subsidiaries, and service providers will retain Service Data for as long as is necessary for Seller and its affiliates and subsidiaries business purposes in accordance with applicable law. The rights and licenses granted herein to Seller's service providers shall only be granted to the extent service providers are providing goods and services on Seller's and its affiliates and subsidiaries behalf.

26. **PRIVACY:** Seller will collect and process personal data of those employed by or otherwise affiliated with Buyer in accordance with Seller's "Privacy Notice for Customers and Suppliers – California" available here [www.vertiv.com/ca-privacy](http://www.vertiv.com/ca-privacy) (the "Notice"), which Notice the Buyer hereby acknowledges having received, read, and understood. In the event of any queries or concerns with its contents, Buyer must contact Seller at the contact details provided in the Notice prior to entering into this Agreement or the commencement of performance hereunder, in failure of which, the terms of the Notice will be deemed accepted and consented to in their entirety.

27. **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 Goods are to be provided. Seller and its representatives shall have full and free access to the equipment in order to provide the necessary Goods. 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's performance hereunder. Buyer shall appoint a representative familiar with the site and the nature of Seller's performance 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.

28. **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 and in no event shall the indemnifying party be obligated to indemnify or insure the other party for the indemnitee's own fault or negligence. 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.

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