STATEMENT OF WORK (SERVICES)

(SOW)

**GENERAL INFORMATION**

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| **Title of Project:** |

UPS Power and Battery Services

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| **Statement of Need and Purpose:** |

Liebert UPS/Power/Battery Services required to maintain critical power infrastructure support to the NCATS 9800 facility.

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| **Background Information and Objective:** |

UPS/Power/Battery Services required to maintain critical power infrastructure support to the NCATS 9800 facility. These systems fully support all of the day to day power requirements for the labs, the robotics, the servers, and the administrative areas. Failure to any one of these systems would be devastating to the ongoing research in this facility.

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| **Period of Performance:** |

The period of performance is for one (1) base year and four (4) option years.

SCOPE OF WORK

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| **General Requirements:** |

Independently and not as an agent of the Government, the Contractor shall furnish all the necessary services, qualified personnel, material, equipment, and facilities, not otherwise provided by the Government as needed to perform the Statement of Work below:

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| **Specific Requirements:** |

Quarterly Preventative Maintenance with Repair, Emergency Service and Parts for UPS Systems at NCATS 9800 Medical Center Dr. Rockville MD 20850

* Perform operational inspection of unit to confirm proper operation in all modes:
  + Cooling
  + Reheat
  + Dehumidification
  + Humidification
  + Alarms and indicating lamps
  + Econo-cool
  + Hot gas bypass
* Inspect air filters and change
* Inspect fan belts and change or adjust as needed
* Lubricate motor bearings at required intervals per manufacturer's specifications
* Inspect humidifier:
  + Inspect Quartz lamps
  + Clean pan
  + Inspect water level and adjust
  + Inspect water flow and adjust
  + Inspect humidifier water filter
* Inspect semi-hermetic compressor oil levels
* Inspect and confirm proper compressor operation:
  + Temperatures
  + Pressures
  + Amperage
  + Voltage (Power)
  + Voltage (Control)
  + Sound levels and unusual noises
* Inspect refrigerant sight glass:
  + Low charge
  + Moisture indication
* Inspect evaporator coil
* Inspect evaporator fans and motor for proper operation
* Check supply and return air temperatures
* Check condenser water leaving and entering temperatures
* Check all control set points and adjust as required
* Perform electrical/ microprocessor testing and diagnostics
* Inspect all electrical controls for:
  + Visual damage
  + Chattering
  + Loose connections
  + Pitting and heat damage
* Tighten all electrical connections
* Clean condensate pans and pump basins as required by visual inspection
* Clean condensate drains as needed
* Inspect air-cooled condenser/drycooler fans
* Inspect condenser/drycooler coils and clean as needed (once per year)
* Inspect pump packages and expansion tanks
* Change system sequence switches to equalize run times
* Check and adjust, as applicable, hot gas bypass
* Test glycol freeze protection and clarity (once per year)
* Inspect water/glycol cooled condenser end bells for leaks, re-torque bolts (once per year)
* Inspect water regulating valve bellows for leaks and correct
* Proide copy of work order(s) with customer and discuss any necessary follow-ups or recommendations

Additional requirements:

* Four (4) hour emergency service response
* Two (2) service technicians on twenty-four (24) hour emergency service call
* Factory trained service technicians
* Annual condenser coil cleaning
* Humidifier cleaning
* General maintenance and cleaning materials
* Belts, air filters and lubricants

Systems:

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| Make | Model | Description |
| Liebert | 47SA010A2CF0899 | EXM 208V 10 |
| Liebert | 47SA010A2CF0A04 | EXM 20V 10 |
| Liebert | 47MBA37ACOR1080 | EXM10-200PERIPH |
| Liebert | RXCSB24S3383 | REM DIST CAB |
| Liebert | PPA075C234A3383 | FPC 75-125 |
| Liebert | PPA075C234A3383 | FPC 75-125 |
| Liebert | 38SA100A0A01S37 | NX 80-120 |
| Liebert | 38SA100A0A01S37 | NX 80-120 |
| Liebert | 38BP120XPX1BNS | Sealed Battery |
| Liebert | 38BP120XPX1BN5 | Sealed Battery |
| Liebert | 38BP120XPX1BNS | Sealed Battery |
| Liebert | 38SA060A0A00 | NX 40-80 |
| Liebert | STA0100A32C870 | Static Transfer Switch |
| Liebert | STA0100A32C870 | Static Transfer Switch |
| Liebert | 38SA060A0A00 | NX 40-80 |
| Liebert | 38BP080XPX1BNS | Sealed Battery |
| Liebert | FNA07ANNNN3 | NX BDC 75 |
| Liebert | 47SA040EAC406WN | EXM 208V 40 |
| Liebert | 47MBE37AC3R1TDF | EXM10-200PERIPH |
| Liebert | 47BPEHC52L101K3 | Sealed Battery |
| Eaton | M#93PM-200-4 S#EP455UXX06 | UPS |
| Liebert | MCL110E8ADG050 S#Y16CAZ0085 | A/C |
| Liebert | DS105DUA1EI447S S#C16C8E0150 | A/C |
| Liebert | DS105DUA1EI447S | A/C |
| Liebert | CW038DC1A2S742 S#N16C150044 | A/C |
| Liebert | MCL110E8ADG050 S#Y16CAZ0084 | A/C |

**LEVEL OF EFFORT:**

NA

**GOVERNMENT RESPONSIBILITIES**

NCATS will provide access to the facility

DELIVERY OR DELIVERABLES

NCATS equipment will continue to operate per OEM specifications

**REPORTING REQUIREMENTS**

Contractor will report any unusual findings from each visit

**OTHER CONSIDERATIONS**

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| **Travel:** |

###### NCATS is not responsible for travel

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| **Key Personnel:** |

NA

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| **Information System Security Plan:** |

NA

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| **Data Rights:** |

NA

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| **Section 508—Electronic and Information Technology Standards:** |

NA

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| **Publications and Publicity:** |

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| **Confidentiality of Information:** |

NA