



Office of Information Technology Services

CERTIFICATION OF AWARD

THIS IS NOT A PURCHASE ORDER

BID/FILE NUMBER: ITS-006414

**THIS BID NUMBER MUST BE SHOWN ON
YOUR PURCHASE ORDER**

**TO: Jennifer Jackson, Purchasing
Department of Public Safety**

**DATE: May 17, 2012
REQUISITION NO: PR11483322
DELIVERY: FOB Destination**

In accordance with the requirements of General Statutes 147-33.95, we certify contract on the items listed below to be ordered by you. Issue order immediately and directly to the vendor listed, giving complete shipping instructions. Order only the item(s) listed and the quantity(ies) as shown in the contract document. Price(s) includes delivery to destination. Read the contract in its entirety including the attached Terms and Conditions to be aware of any action necessary on your part.

Commodity: 725 Sealed Battery Systems in accordance with IFB ITS-006414 dated March 28, 2012.

TOTAL: \$12,769.00 (100AH Battery only)

This is a one (1) year contract with two (2) one (1) year renewal options. The State cannot and will not guarantee any minimum or maximum quantities.

**VENDOR: National Power Corporation
5100 Departure Drive
Raleigh, NC 27616**

Sherwood Creech, Contract Specialist
Statewide IT Procurement Office

INSTRUCTIONS TO VENDORS:

1. **THIS IS NOT A PURCHASE ORDER**. Do not make shipment until you have received an official order from the using agency.
2. Invoices should be made out to the using agency and forwarded directly to them for payment
3. The exact items certified and ordered must be shipped. No substitutions shall be made without prior approval of the using agency.
4. Applicable North Carolina sales and use tax shall be added to invoices as a separate item.
5. Please note the contract award description above: the contract awarded to you may be a portion of the contract rather than the complete contract.

STATE OF NORTH CAROLINA Office of Information Technology Services Statewide IT Procurement Office	INVITATION FOR BIDS NO. ITS-006414
	Bids will be publicly opened: March 28, 2012 @ 2:00 pm
Refer ALL Inquiries to: Sherwood Creech E-Mail: Sherwood.creech@nc.gov	Contract Type: Agency Specific Issue Date: March 14, 2012 Commodity Number: 725-13 Commodity: Scaled Battery Systems
Telephone No.: (919) 754-6668	Using Agency Name: DPS – Division of State Highway Patrol
(See page 2 for mailing instructions)	Agency Requisition No. PR11483322

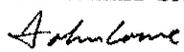
OFFER AND ACCEPTANCE

This solicitation advertises the State's needs for the goods and/or services described herein. The State seeks proposals comprising competitive bids offering to sell the goods and/or services described in this solicitation. The State's acceptance of any proposal must be demonstrated by execution of the acceptance found below and any subsequent Request for Best and Final Offer, if issued. Acceptance shall create a contract having an order of precedence among terms as follows: Special terms and conditions specific to this IFB, Specifications of the solicitation documents, except as amended the State's Terms and Conditions, and the awarded Vendor's proposal. **Provided, however, that no contract shall be binding on the State until an encumbrance of funds has been made for payment of the sums due under the contract.**

EXECUTION

In compliance with this Invitation for Bids, and subject to all the conditions herein, the undersigned offers and agrees to furnish and deliver any or all items upon which prices are bid, at the prices set opposite each item within the time specified herein. By executing this bid, I certify that this bid is submitted competitively and without collusion (G.S. 147-33-100).

Failure to execute/sign bid prior to submittal shall render bid invalid. Late bids are not acceptable.

BIDDER: National Power Corporation		
STREET ADDRESS: 5100 Departure Drive	P.O. BOX: 58729	ZIP: 27658
CITY & STATE & ZIP: Raleigh, NC 27616	TELEPHONE NO: 919-815-4847	TOLL FREE NO
PRINT NAME & TITLE OF PERSON SIGNING: John Lowe, VP/GM	FAX NUMBER: 919-790-9714	
AUTHORIZED SIGNATURE: 	DATE: 4/4/12	E-MAIL: john.lowe@natpow.com

Offer valid for thirty (30) days from date of bid opening unless otherwise stated here: ___ days (See Instructions to Vendors, Item 5). Prompt Payment Discount: ___ % ___ days (See Instructions to Vendors, Item 6).

ACCEPTANCE OF BID

If any or all parts of this bid are accepted, an authorized representative of DPS shall affix their signature hereto and this document and the provisions of the Instructions to Vendors, special terms and conditions specific to this Invitation for Bids, the specifications, and the ITS Terms and Conditions shall then constitute the written agreement between the parties. A copy of this acceptance will be forwarded to the successful Vendor(s).

FOR DPS USE ONLY Offer accepted and contract awarded this <u>17</u> day of <u>May</u> , 20 <u>12</u> as indicated on attached certification, by <u>Jenniffer Costa</u> (Authorized representative of DPS).

DELIVERY INSTRUCTIONS: Sealed bids, subject to the conditions made a part hereof, will be received at the address below, for furnishing and delivering the commodity as described herein.

Bids submitted via facsimile (FAX) machine, telephone or electronically in response to this Invitation for Bids will not be accepted. **Bids are subject to rejection unless submitted on this form.**

Deliver one (1) **signed original executed** bid response and one (1) **copy** of the executed bid response. Address envelope and insert bid number as shown below. It is the responsibility of the Vendor to have the bid in this office by the specified time and date of opening. Vendor must also submit one (1) SIGNED, executed electronic copy of its proposal on either a USB Flash Drive or a Read-only CD/DVD(s). The files on the discs should not be password-protected and should be capable of being copied to other media.

Address envelope and insert bid number as shown below. Please note that the US Postal Service does not deliver any mail (US Postal Express, Certified, Priority, Overnight, etc.) on a set delivery schedule to this Office. It is the responsibility of the Vendor to have the bid in this Office by the specified time and date of opening.

DELIVER TO:
BID NUMBER: ITS-006414
Statewide IT Procurement Office
Attn: Sherwood Creech, Contract Specialist
333 E. Six Forks Road, 2 nd Floor
Raleigh, NC 27603

DIGITAL IMAGING: The State will digitize the Vendor's response if not received electronically, and any awarded contract together with associated contract documents. This electronic copy shall be a preservation record, and serve as the official record of this solicitation with the same force and effect as the original written documents comprising such record. Any printout or other output readable by sight shown to reflect such record accurately is an "original."

ADDENDUM TO IFB: If a pre-bid conference is held or written questions are received prior to the submission date, an addendum comprising questions submitted and responses to such questions, or any additional terms deemed necessary by the State will be posted to the Interactive Purchasing System (IPS), <http://www.ips.state.nc.us/ips/deptbids.asp>, and shall become an Addendum to this IFB. Vendors' questions posed orally at any pre-bid conference must be reduced to writing by the Vendor and provided to the Purchasing Officer as directed by said Officer.

Critical updated information may be included in these Addenda. It is important that all Vendors bidding on this proposal periodically check the State website for any and all Addenda that may be issued prior to the bid opening date.

BASIS FOR REJECTION: Pursuant to 9 NCAC 06B.0401, the State reserves the right to reject any and all offers, in whole or in part; by deeming the offer unsatisfactory as to quality or quantity, delivery, price or service offered; non-compliance with the requirements or intent of this solicitation; lack of competitiveness; error(s) in specifications or indications that revision would be advantageous to the State; cancellation or other changes in the intended project, or other determination that the proposed requirement is no longer needed; limitation or lack of available funds; circumstances that prevent determination of the best offer; or any other determination that rejection would be in the best interest of the State.

NOTICE TO VENDORS: The State objects to and will not be required to evaluate or consider any additional terms and conditions submitted with a Bidder's response. This applies to any language appearing in or attached to the document as part of the Bidder's response. By execution and delivery of this Invitation for Bids and response(s), the Bidder agrees that any additional terms and conditions, whether submitted purposely or inadvertently, shall have no force or effect.

Sealed bids, subject to the conditions made a part hereof, will be received at this office at 333 E. Six Forks Road, Raleigh, NC until 2:00 pm Eastern Time on the day of opening and then opened, for furnishing and delivering the goods and/or services as described herein. Refer to Delivery Instructions for proper mailing instructions.

Bids submitted via facsimile (FAX) machine, telephone or electronically in response to this Invitation for Bids will not be accepted. Bids are subject to rejection unless submitted on this form.

LATE PROPOSALS: Regardless of cause, late proposals will not be accepted and will automatically be disqualified from further consideration. It shall be the Vendor's sole risk to ensure delivery at the designated office by the designated time. Late proposals will not be opened and may be returned to the Vendor at the expense of the Vendor or destroyed if requested.

AWARD NOTIFICATION: A link to the Interactive Purchasing System (IPS) allows the public to retrieve bid award information electronically from the Internet web site: <http://www.ips.state.nc.us> Results may be found by searching by bid number or agency name. This information may not be available for several weeks dependant upon the complexity of the acquisition and the length of time to complete the evaluation process.

VENDOR REGISTRATION AND SOLICITATION NOTIFICATION SYSTEM: Vendor Link NC allows Vendors to electronically register with the State to receive electronic notification of current procurement opportunities for goods and services available on the Interactive Purchasing System at the following web site: <https://www.ips.state.nc.us/IPS/Vendor/Vndrmess.asp>

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SECTION 1: IFB SCHEDULE

Bid Questions

Due Date: March 19, 2012

Time: 2:00 p.m. Eastern Time

Address: 333 E. Six Forks Road, 2nd Floor, Raleigh, NC

Instructions: Written questions will be received at Sherwood.creech@nc.gov until date and time specified above. Please enter "Questions ITS-006414" as the subject for the email. The questions are to be submitted in the following format:

The State will prepare responses to all written questions submitted, and post an addendum to the Interactive Purchasing System (IPS) <http://www.ips.state.nc.us/ips/pubmain.asp>. Oral answers are not binding on the State.

Vendor contact regarding this IFB with anyone other than Sherwood Creech may be grounds for rejection of said Vendor's offer. Agency contact regarding this IFB with any Vendor may be grounds for cancellation of this IFB.

Bid Submittal

Due Date: March 28, 2012

Time: 2:00 p.m. Eastern Time

Mail Address: See page 2

Instructions: All bids must be sealed and are subject to the conditions of this IFB. Indicate the firm's name and IFB number on the front of the sealed envelope or package.

Include **one (1) original** executed bid and **one (1) copy** of the executed bid response. Vendor must also submit one (1) **electronic, SIGNED copy** of its proposal on either a USB Flash Drive or a read-only CD/DVD(s). The files on the discs should not be password-protected and should be capable of being copied to other media.

Each original bid must be signed and dated in ink, by an official authorized to bind the company. The Vendor, by making an offer, expressly represents that the specifications herein have been read and understood, and that the offer complies with all aspects. Any change that is received after the bid opening, and that is not specifically solicited by the State, shall be rejected.

Firm Bid: Prices and any other entry made hereon by the Vendor shall be considered firm and not subject to change.

SECTION 2: INTENT, USE, DURATION AND SCOPE

The purpose of this Invitation for Bids (IFB) is to obtain pricing for and select a Vendor to provide sealed battery systems and supplies to the microwave systems for the NC State Highway Patrol. This solicitation will establish a Convenience Contract pursuant to 9 NCAC 06B .0701 for an indefinite quantity contract between a Vendor and the State. Batteries will be ordered on an as needed basis. Term of the contract will be for a one-year period. The State will have the option to extend this contract for two (2) additional one (1) year periods. **The State cannot and will not guarantee any quantities.** Bidding will be in accordance with the terms and conditions of this IFB and any addenda thereto.

SECTION 3: VENDOR OFFER

Bid must be submitted on the forms provided herein. Bids submitted in any other format may be subject to rejection. If additional sheets are required (for example, Vendors who are offering alternate proposals); the Vendor should submit a separate bid document. Any alternate proposals must be clearly marked as such with the phrase "alternate bid for 'name of Vendor'" and numbered sequentially with the first bid. This legend must be in bold type of not less than 14 point type on the face of the bid, and on the text of the alternative proposal.

Reseller Information - The Agency acknowledges that the Reseller has merely purchased the Third Party Items for resale or license to the Agency, and that the proprietary and intellectual property rights to the Third Party Items are owned by parties other than the Reseller ("Third Parties"). The Agency further acknowledges that except for the payment to the Reseller for the Third Party Items, all of its rights and obligations with respect thereto flow from and to the Third Parties. The Reseller shall provide the Agency with copies of all documentation and warranties for the Third Party Items which are provided to the Reseller. The Reseller shall assign all applicable third party warranties for Deliverables to the Agency.

Vendor Utilization of Workers Outside the U.S.: In accordance with NC General Statute 147-33.97, the Vendors must detail in the bid response, the manner in which it intends to utilize resources or workers. The State of North Carolina will evaluate the additional risks, costs, and other factors associated with such utilization prior to making an award for any such Vendor's proposal. The Vendor shall provide the following for any proposal or actual utilization or contract performance:

- a) The location of work performed under a state contract by the Vendor, any subcontractors, employees, or other persons performing the contract and whether any of this work will be performed outside the United States
- b) The corporate structure and location of corporate employees and activities of the Vendors, its affiliates or any other subcontractors
- c) Notice of the relocation of the Vendor, employees of the Vendor, subcontractors of the Vendor, or other persons performing services under a state contract outside of the United States
- d) Any Vendor or subcontractor providing call or contact center services to the State of North Carolina shall disclose to inbound callers the location from which the call or contact center services are being provided

<i>Will any work under this contract be performed outside the United States?</i> <i>Where will services be performed:</i> _____	YES _____ NO <input checked="" type="checkbox"/>
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SECTION 4: E-PROCUREMENT

This is an e-procurement solicitation. See paragraph #47 of the attached Information Technology Procurement Office General Terms and Conditions for Goods and Related Services. The Terms and Conditions made part of this solicitation contain language necessary for the implementation of North Carolina's statewide e-procurement initiative. It is the offeror's responsibility to read these terms and conditions carefully and to consider them in preparing the offer.

- a) General information on the e-procurement service can be found at <http://eprocurement.nc.gov/>
- b) Within two days after notification of award of a contract, vendor must register in NC E-Procurement @ Your Service at the following web site: <http://eprocurement.nc.gov/Vendor.html>
- c) As of the IFB submittal date, the Vendor must be current on all e-Procurement fees. If the Vendor is not current on all e-Procurement fees, the State may disqualify the Vendor from participation in this IFB.

SECTION 5: DELIVERY

The successful Vendor will complete delivery within thirty (30) consecutive calendar days after receipt of purchase order to Raleigh, NC. State your guaranteed delivery date:

Delivery will be made from McAllen, TX (city, state) within 30 consecutive calendar days after receipt of purchase order.

SECTION 6: WARRANTY

The Vendor warrants that all equipment furnished under this IFB will be new, of good material and workmanship. The warranty will be for a minimum period of twelve (12) months from date equipment is put into operation. Such replacement shall include all parts, labor, and transportation cost to the location where equipment is down, free of any charge to the owner or his representative.

The report of a problem does not presuppose that every call must result in an "on-site" visit for service/repair. The Vendor and/or service sub-contractor shall utilize best efforts to resolve problems in a timely fashion through the use of

acceptable servicing methods to include, but not limited to, verbal problem analysis and remote diagnosis. The warranty requirement does not impose any additional duty on the State to make other than normal and good faith problem resolution efforts or expenditures of time.

(Check Yes or No)

A.	Bidder is manufacturer authorized to repair equipment offered during the warranty period?	Yes		No	X
B.	Will bidder perform Warranty Service?	Yes	X	No	

If Yes to B, complete this section:

Contact Person	Lamar Britt				
Telephone Number	919-815-4847	Toll-free Number	N/A		
Address of Service Facility	5100 Departure Drive, Raleigh, NC 27616				

If No to B, complete this section: (who will perform the Warranty)

Company Name				Contact Person			
Address			City			State	Zip
Telephone Number			Toll-free Number				

SECTION 7: MAINTENANCE

Reserved

SECTION 8: PRODUCT RECALL

Vendor assumes full responsibility for prompt notification of both the contract administrator and purchaser of any product recall in accordance with the applicable state and federal regulations.

SECTION 9: BID AWARD

It is the general intent to award this contract to one Vendor. As provided by statute, award will be based on Best Value Analysis, (Lowest Price Technically Acceptable Source Selection Method in accordance with 09 NCAC 06B. 0302 Information Technology Procurement.) See ITS Instructions to Vendors, Item #11.

The State, at its sole discretion, reserves the right to reject any offers that does not meet specifications.

SECTION 10: POSSESSION AND REVIEW

During the evaluation period and prior to award, possession of the bids and accompanying information is limited to personnel of the issuing agency, and to the committee responsible for participating in the evaluation. Vendors who attempt to gain this privileged information, or to influence the evaluation process (i.e. assist in evaluation) will be in violation of purchasing rules and their offer will not be further evaluated or considered.

After award of contract the complete bid file will be available to any interested persons with the exception of trade secrets, test information or similar proprietary information as provided by statute and rule. Any proprietary or confidential information, which conforms to exclusions from public records as provided by NC General Statute, 132-1.2 **must be clearly marked as such in the offer when submitted.**

SECTION 11: DESCRIPTIVE LITERATURE

All bids shall include specifications and technical literature sufficient to allow the State to determine that the equipment meets all requirements. This technical literature will be the primary source for bid evaluation. If a requirement is not addressed in the technical literature it must be supported by additional documentation and included with the bid. Bid responses without sufficient technical documentation may be rejected.

SECTION 12: MAKE AND MODEL

Manufacturer's name and model/catalog numbers used are for the purpose of identification and to establish general quality level desired. Such references are not intended to be restrictive and comparable products of other manufacturers will be considered. However, bidders are cautioned that any deviation from specifications must be pointed out in their bid.

SECTION 13: SPECIFICATIONS

Battery System, 50 Amp Rectifier, 48 VDC, 100 Amp Hour sealed cell batteries, to be assembled in a 7.0-foot high 19-inch wide equipment rack with integrated, computer controlled integrated alarm and control panel, interconnecting cables and termination panel. Rectifier assembly must be expandable to 100 Amp. Rectifier AC line input to be factory wired for 240 V single phase service input. Rectifiers must be hot swappable. Rectifier assemblies producing <100Amp will be provided with an optional redundant rectifier. The optional redundant rectifier will be specified at time of order.

Some system components, such as heavy and plug-in assemblies, can be shipped separately. The system equipment rack shall be pre-wired so that the installer only needs to place in the rack the items too heavy to ship in place, connect to a power source and make the rectifier is ready for service. The rectifier system shall be shipped with all inter-battery cables with the proper terminations for the supplied batteries.

All system components must meet or exceed the specifications of the following: MajorPower part number MCR48/25 rectifier and associated rack system; C&D Technologies components to include 4-each LS 12-100 batteries, 2-each, 170.0010.10 Rack; MBC04372-19 tray, with rubber insulating pad to separate the batteries from the tray containing two cells; 111B2240-01, Ground Termination panel; 111.3768.00, 18 position circuit breaker panel. Circuit Breakers (48V) must meet or exceed the specifications of the following C&D Technologies Circuit Breaker part number, 274-2920-xx (xx = Amp rating).

Sealed Batteries shall meet at a minimum the following requirements:

- The batteries referenced in this document are sealed lead acid.
- They must be constructed with an absorbent glass mat and are valve-regulated with pasted lead calcium plates.
- The cells shall be shipped pre-assembled in 2-, 4-, 8- and 12-volt modules to enable quick and easy installation.
- The batteries must be installed in a horizontal position with the battery terminals on top.
- When cells are operated within recommended float voltage and temperature ranges, the cells shall not emit gas, electrolyte or electrolyte vapors and shall not require special ventilation apparatus.
- Cells must not require periodic watering.

Rectifier / Charger shall meet at a minimum the following requirements:

- a. Single-phase, switching type, reduced height rectifier ($\leq 3RU$) rated for telecommunications and utility service.
- b. Line input voltage shall be 208 – 240 volt, single phase, 60 Hz operation.

- c. Regulation: Voltage regulation shall be $\leq \pm 0.6$ percent of programmed output over the ambient temperature range of 23° F (-5°C) to 113° F (45°C). Voltage regulation shall be $\leq \pm 0.6$ of programmed output with AC input variations between ± 6 to ± 12 % of nominal input voltage and frequency variations between 57 to 63 Hz while floating or equalizing the rated number of cells.
- d. Electrical noise: Broadband noise shall be ≤ 50 mV (rms) within the frequency range of 3.4 KHz to 150 KHz.
- e. Mechanical noise: Acoustic noise shall be < 55 dB.
- f. Ripple: ≤ 35 mV rms (The battery portion should not be necessary for the rectifier to maintain the ripple value.)
- g. Current Limiting: Current limiting adjustable to 110% of rated DC output.
- h. DC Output: 43.0 – 57.8V / Programmable for Float and Equalize functions.
- i. Circuit Protection: UL-rated, AC circuit breakers shall be provided for the following input/output protection:
 - a. AC Line Input Circuit Breaker
 - b. System load output Circuit Breaker
 - c. System battery protection Circuit Breaker
- j. Rectifier / Charger system shall be equipped with a low voltage disconnect (LVD) feature that isolates battery from the system load.
- k. Environmental Operating and Storage Parameters: Rectifier must have a storage shelf life of at least one year.
 - a. Operating Temperature range: 23° F (-5°C) to 113° F (45°C)
 - b. Storage Temperature range: -40° F (-40°C) to 185° F (+85°C)
 - c. Rectifier must have a storage shelf life of at least one year.
 - d. Humidity range: up to 90% when operating.
 - e. Humidity range: up to 95% while in storage.
 - f. Insulation resistance: ≥ 2 M Ohm,
 - g. Primary to Secondary voltage: ≥ 3000 VAC
 - h. Isolation DC to earth: 500V
 - i. Isolation AC to Earth and AC to DC 3000VAC
 - j. Safety: Unit design must meet or exceed UL 60950 standard
- l. Standard Equipment:
 - i. Digital Controller with output voltage, output amperage, temperature, system alarms & status.
 - ii. Rectifier shall be provided with one redundant module.
 - iii. Float and equalize values shall be panel adjustable and switch controlled.
 - iv. Positive or negative ground.
 - v. Integrated alarm module to provide alarm dry contacts for alarm I/O's – to include AC & DC faults, abnormal voltage conditions, rectifier failure, DC load breaker trip and shall have a visual alarm status display.

Battery Tray for relay rack to meet the following minimum requirements:

- a. Systems shall be mounted in battery trays and batteries shall be mounted directly in aluminum equipment rack.

- b. Battery trays shall be made of 14-gauge steel and come with heavy duty rubber mats. Mounting hardware is required
- c. Systems must include Ground Terminal Panel and all cables to connect batteries and rectifier.
- d. AC connection from rectifier to AC panel source to be provided by the NC State Highway Patrol.

The system to be equipped with a power distribution panel with breakers arranged in the following quantities:

- a. 1 each, 80 Amp circuit breaker in the far left position.
- b. 5 each, 20 Amp circuit breaker in the next right positions.
- c. 2 each, 15 Amp circuit breakers in the next right positions.
- d. Blank covers should cover unused circuit breaker positions.

SECTION 14: FURNISH AND DELIVER

1.	1	ea	<p>Battery/Rectifier system Assembly: 48 VDC, with rectifier capacity expandable from 25 to 100 Amp, mounted in a 7-ft high, 19-in wide equipment rack, with interconnecting cables and termination panels. <u>Rectifier system will be completely pre-wired from the line AC input through the circuit breaker panel outputs.</u></p> <p>All system components must meet or exceed the specifications of the following products: MajorPower Corporation, MajorCharge System Assembly, MCS48/100LX-3U; Charger/Rectifier, MCR 48/25, rectifier module (Nominal Quantity of three, exact quantity be specified in order). C&D Technologies, LS 12 -100, 100 Amp-hour sealed cell battery, quantity of 4; <i>Alternative Battery</i>, LS-4-300, 300 Amp-hour sealed cell battery, quantity of 12, (Battery capacity will be specified at time of order), 170-B2240-500 19-in equipment rack, 2-each MBC-04372-19 Equipment Rack Shelves with rubber mats and 111B2240-500 Ground termination Panel. A 111.3768.00, 18 position circuit breaker panel and circuit breaker assortment in the quantities indicated, see directly above Section 13 , will also be included.</p> <p>See Section 13, above, for all materials and quantities that are to be supplied in this assembly.</p> <p>Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u></p>	\$5875.00	\$5875.00
				for LS-12-100 Battery	
				Adder amount to upgrade to LS-4-300 Battery	
			\$3110.00	\$3110.00	
			See notes on DC System of Supplement		

2.	1	ea	DC power system, equipment shelf, rack-Mounted. Unit must be the same as shown in item #1 and meet, or exceed, the specifications of the MajorPower Corporation , MajorCharge System Assembly, MCS48/100LX-3U; Charger/Rectifier. Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$475.00	\$475.00
				See notes on DC Power System of Supplement	
3.	1	ea	Charger/Rectifier/regulator module for DC power equipment shelf, 25 Amp. Unit must be the same as shown in item #1 and meet, or exceed, the specifications of the MajorPower Corporation , Charger/Rectifier, MCR 48/25, rectifier module. Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$438.00	\$438.00
4.	1	ea	DC distribution panel that meets or exceeds the specifications of the following C&D Technologies component: C&D #111-3768-00 Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$845.00	\$845.00
				See notes on Distribution panel of Supplement	
5.	1	ea	DC Circuit Breaker, 10 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-10 Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$38.00	\$38.00
6.	1	ea	DC Circuit Breaker, 80 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-80 Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$38.00	\$38.00
7.	1	ea	DC Circuit Breaker, 15 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-15 Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$38.00	\$38.00
8.	1	ea	DC Circuit Breaker, 20 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-20 Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$38.00	\$38.00

9.	1	ea	Battery Rack, Open construction, with capacity for 12- each batteries measuring 8.9" (h) X 16.5" (l) X 6.8" (w) or the approximate size of the C&D LS-4-300 battery. Rack specifications should meet or exceed C&D Technologies' Item number RDO1617. Brand: <u>Emerson Network Power</u> Model: <u>Netsure 502</u>	\$295.00 See notes on DC Power System of Supplement	\$295.00
10.	4	Each	Replacement Battery that meets or exceeds the specifications of the following C&D Technologies component: C&D #LS 12-100. Brand: <u>GNB</u> Model: <u>12-100 (Qty 4)</u>	\$1172.00 Batteries Only	\$1172.00
11.	1	ea	Replacement Battery that meets or exceeds the specifications of the following C&D Technologies component: C&D #LS 4-300. Brand: <u>GNB</u> Model: <u>12-100 (Qty 12)</u>	\$3517.00 Batteries Only	\$3517.00
Total Bid Cost					

Energy Star

"ENERGY STAR® is a government-backed program helping businesses and individuals protect the environment through superior energy efficiency." <http://www.energystar.gov/>

Do the products offered meet Energy Star specifications for energy efficiency?	Yes	No	X
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Sustainability

In an effort to support the sustainability efforts of the State of North Carolina Executive Order Number 156, we solicit your cooperation. <http://www.p2pays.org/ref/03/02221.pdf>

Does the packaging of the item(s) offered in response to this solicitation contain recycled content? Yes No
 If yes, what is the recycled content? 25 % Can this packaging be recycled? Yes No
 Do the item(s) offered have any recycled content? Yes No
 If yes, what is the recycled content? 10 %
 How can the items be disposed of or can it be recycled at the end of use?
Batteries should be sent to an authorized recycle center.

Historically Underutilized Businesses

"Historically Underutilized Businesses (HUBs) consist of minority, women and disabled business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled." <http://www.doa.nc.gov/hub/>

Pursuant to General Statute 143-48, 143-128.4 and Executive Order #13, the State invites and encourages participation in this procurement process by businesses owned by minorities, women, disabled, disabled business enterprises and non-profit work centers for the blind and severely disabled. This includes utilizing subcontractors to perform the required functions in this Invitation for Bids.

Are you a Historically Underutilized Business (i.e., minority, woman or disabled-owned business)?

Yes No

If applicable, specify classification. _____

SECTION 15: ITS INSTRUCTIONS TO VENDORS

1. **READ, REVIEW AND COMPLY:** It shall be the Vendor's responsibility to read this entire document, review all enclosures and attachments, and comply with all requirements specified herein.
2. **DEFINITIONS:**
 - **THE STATE:** Is the state of North Carolina and its agencies.
 - **ITS:** Office of Information Technology Services
 - **OFFEROR:** Company, firm, corporation, partnership, individual, etc., submitting a response to a solicitation.
 - **TERM CONTRACT:** a contract in which a source of supply is established for a specified period of time for specified services or supplies; usually characterized by an estimated or definite minimum quantity, with the possibility of additional requirements beyond the minimum, all at a predetermined unit price
 - **TECHNICAL SERVICES CONTRACT:** A contract to provide for information technology specialty services for specific projects or assignments.
 - **ITS CONVENIENCE CONTRACT:** A contract that is used for the procurement of IT goods or services. These contracts are in place for the convenience of the state and use of them is optional.
 - **OPEN MARKET CONTRACT:** A contract for the purchase of goods or services not covered by a term, technical, or convenience contract.
3. **NOTICE TO VENDORS:** All bids are subject to the provisions of the Instructions to Vendors, special terms and conditions specific to this Invitation for Bids, the specifications, and the ITS Terms and Conditions. **DO NOT ATTACH ANY ADDITIONAL TERMS AND CONDITIONS.** *The State objects to and will not evaluate or consider any additional terms and conditions submitted with a Vendor response.* This applies to any language appearing in or attached to the document as part of the Vendor's response. Bids with terms and conditions attached will be subject to rejection.
4. **ORDER OF PRECEDENCE:** In cases of conflict between specific provisions in this bid, the order of precedence shall be (1) special terms and conditions specific to this bid, (2) specifications, (3) ITS Terms and Conditions, and (4) Instructions to Vendors.



**MANDATORY RETURN
BID ADDENDUM**

**FAILURE TO RETURN THIS BID ADDENDUM IN ACCORDANCE WITH
INSTRUCTIONS SHALL SUBJECT YOUR BID TO REJECTION**

Bid Number: ITS-006414

Bid Opening Date/Time: Extended until April 4, 2012

Description: Sealed Battery Systems

Addendum Number: 01

Addendum Date: March 26, 2012

Contact: Sherwood Creech

Telephone (919) 754-6668

Fax (919) 715-8549

INSTRUCTIONS:

1. Return one properly executed copy of this addendum with bid response or **prior** to the Bid Opening Date/Time listed above.
2. Bid Opening Extended until April 4, 2012 @ 2:00 pm
3. Attached are the responses to questions submitted regarding the above referenced Invitation for Bid.
4. Section 13 and Section 14 of the IFB has been replaced with a new Section 13 and a new Section 14. (see below)

5. Check **ONE** of the following options:

- Bid has **not** been mailed. Any changes resulting from this addendum are included in our bid.
- Bid has already been mailed. No changes resulted from this addendum.
- Bid has already been mailed. Changes resulting from this addendum are as follows:

Execute Addendum:

Bidder: National Power Corporation

Authorized Signature: *John Lowe*

Name and Title (Typed): John Lowe, VP/GM

Date: 4/4/12

1. Where is the installation location?

Answer: 99.9% of these units will be installed in concrete buildings which are at ground level. The NCSHP will do the installation.

2. What floor of the building will the installation be performed?

Answer: Ground Level. NCSHP will do the installation

3. Major Power will be discontinuing part number MCS48/100LX-3U and MCR48/25 replacing with MTS48/75CT-2U. However, they still have a quantity of 14 while supplies last. The question I have is which one do you want me to quote? If, we quote the original and they sell before you order there will be a cost difference for the replacement.

Answer: See Specification changes below

Replace Section 13 Specifications of the bid with the following new section: All changes are highlighted in yellow

SECTION 13: SPECIFICATIONS

Battery System, 50 Amp Rectifier, 48 VDC, 100 Amp Hour sealed cell batteries, to be assembled in a 7.0-foot high 19-inch wide equipment rack with integrated, computer controlled integrated alarm and control panel, interconnecting cables and termination panel. Rectifier assembly must be expandable to 75 Amp. Rectifier AC line input to be factory wired for 240 V single phase service input. Rectifiers must be hot swappable. Rectifier assemblies producing <100Amp will be provided with an optional redundant rectifier. The optional redundant rectifier will be specified at time of order.

Some system components, such as heavy and plug-in assemblies, can be shipped separately. The system equipment rack shall be pre-wired so that the installer only needs to place in the rack the items too heavy to ship in place, connect to a power source and make the rectifier is ready for service. The rectifier system shall be shipped with all inter-battery cables with the proper terminations for the supplied batteries.

All system components must meet or exceed the specifications of the following: MajorPower part number ~~MCR48/25~~ MTS48/75CT-2U rectifier with up to three ~~MCR48/25~~ MCR48/25-1U rectifier units and associated rack system, C&D Technologies components: LS 12-100 battery; 2-each, 170.0010.10 Rack; MBC04372-19 tray, with rubber insulating pad to separate the batteries from the tray, for positioning two cells; 111B2240-01, Ground Termination panel; 111.3768.00, 18 position circuit breaker panel. Circuit Breakers (48V) must meet or exceed the specifications of the following C&D Technologies Circuit Breaker part number, 274-2920-xx (xx = Amp rating).

Sealed Batteries shall meet at a minimum the following requirements:

- The batteries referenced in this document are sealed lead acid.
- They must be constructed with an absorbent glass mat and are valve-regulated with pasted lead calcium plates.
- The cells shall be shipped pre-assembled in 2-, 4-, 8- and 12-volt modules to enable quick and easy installation.
- The batteries must be installed in a horizontal position with the battery terminals on top.
- When cells are operated within recommended float voltage and temperature ranges, the cells shall not emit gas, electrolyte or electrolyte vapors and shall not require special ventilation apparatus.
- Cells must not require periodic watering.

Rectifier / Charger shall meet at a minimum the following requirements:

- a. Single-phase, switching type, reduced height rectifier ($\leq 3RU$) rated for telecommunications and utility service.
- b. Line input voltage shall be 208 – 240 volt, single phase, 60 Hz operation.
- c. Regulation: Voltage regulation shall be $\leq +/-.6$ percent of programmed output over the ambient temperature range of 23° F (-5°C) to 113° F (45°C). Voltage regulation shall be $\leq +/-.6$ of programmed output with AC

- input variations between +6/-12 % of nominal input voltage and frequency variations between 57 to 63 Hz while floating or equalizing the rated number of cells.
- d. Electrical noise: Broadband noise shall be ≤ 50 mV (rms) within the frequency range of 3.4 KHz to 150 KHz.
 - e. Mechanical noise: Acoustic noise shall be < 55 dB.
 - f. Ripple: ≤ 35 mV rms (The battery portion should not be necessary for the rectifier to maintain the ripple value.)
 - g. Current Limiting: Current limiting adjustable to 110% of rated DC output.
 - h. DC Output: 43.0 – 57.8V / Programmable for Float and Equalize functions.
 - i. Circuit Protection: UL-rated, AC circuit breakers shall be provided for the following input/output protection:
 - a. AC Line Input Circuit Breaker
 - b. System load output Circuit Breaker
 - c. System battery protection Circuit Breaker
 - j. Rectifier / Charger system shall be equipped with a low voltage disconnect (LVD) feature that isolates battery from the system load.
 - k. Environmental Operating and Storage Parameters: Rectifier must have a storage shelf life of at least one year.
 - a. Operating Temperature range: 23° F (-5°C) to 113° F (45°C)
 - b. Storage Temperature range: -40° F (-40°C) to 185° F (+85°C)
 - c. Rectifier must have a storage shelf life of at least one year.
 - d. Humidity range: up to 90% when operating.
 - e. Humidity range: up to 95% while in storage.
 - f. Insulation resistance: ≥ 2 M Ohm,
 - g. Primary to Secondary voltage: ≥ 3000 VAC
 - h. Isolation DC to earth: 500V
 - i. Isolation AC to Earth and AC to DC 3000VAC
 - j. Safety: Unit design must meet or exceed UL 60950 standard
 - l. Standard Equipment:
 - i. Digital Controller with output voltage, output amperage, temperature, system alarms & status.
 - ii. Rectifier shall be provided with one redundant module. t Multi-turn float and equalize potentiometers with equalize switch
 - iii. Positive or negative ground.
 - iv. Integrated alarm module to provide alarm dry contacts for alarm I/O's – to include AC & DC faults, abnormal voltage conditions, rectifier failure, DC load breaker trip and shall have a visual alarm status display.

Battery Tray for relay rack to meet the following minimum requirements:

- a. Systems shall be mounted in battery trays and batteries shall be mounted directly in aluminum equipment rack.
- b. Battery trays shall be made of 14-gauge steel and come with heavy duty rubber mats. Mounting hardware is required
- c. Systems must include Ground Terminal Panel and all cables to connect batteries and rectifier.
- d. AC connection from rectifier to AC panel source to be provided by the NC State Highway Patrol.

The system to be equipped with a power distribution panel with breakers arranged in the following quantities:

- a. 1 each, 80 Amp circuit breaker in the far left position.
- b. 5 each, 20 Amp circuit breaker in the next right positions.
- c. 2 each, 15 Amp circuit breakers in the next right positions.
- d. Blank covers should cover unused circuit breaker positions.

Replace Section 14 Furnish and Deliver Table of the bid with the following table: All changes are highlighted in yellow

SECTION 14: FURNISH AND DELIVER

1.			<p>Battery system: 48 VDC, with rectifier capacity expandable from 25 to 100 Amp, mounted in a 7-ft high, 19-in wide equipment rack, with interconnecting cables and termination panels. <u>Rectifier system will be completely pre-wired from the line AC input through the circuit breaker panel outputs.</u></p> <p>All system components must meet or exceed the specifications of the following products: MajorPower Corporation, MajorCharge System Assembly, MTS48/75CT-2U; system module (Nominal Quantity of three, exact quantity be specified in order); C&D Technologies, LS 12 -100, 100 Amp-hour sealed cell battery, quantity of 4; <i>Alternative Battery</i>, LS-4-300, 300 Amp-hour sealed cell battery, quantity of 12, (Battery capacity will be specified at time of order), 170-B2240-500 19-in equipment rack, 2-each MBC-04372-19 Equipment Rack Shelves with rubber mats and 111B2240-500 Ground termination Panel. A 111.3768.00, 18 position circuit breaker panel and circuit breaker assortment in the quantities indicated, see directly above Section 13 , will also be included.</p> <p>See Section 13, above, for all materials that are to be supplied with this assembly.</p> <p>Brand: _____</p> <p>Model: _____</p>		
2.			<p>DC power system, equipment shelf, rack-Mounted. Unit must be the same as shown in item #1 and meet, or exceed, the specifications of the MajorPower Corporation, MajorCharge System Assembly, MTS48/75CT-2U; Charger/Rectifier.</p> <p>Brand: _____</p> <p>Model: _____</p>		

3.		Charger/Rectifier/regulator module for DC power equipment shelf, 25 Amp. Unit must be the same as shown in item #1 and meet, or exceed, the specifications of the MajorPower Corporation , Charger/Rectifier, MTR 48/25-1U, rectifier module. Brand: _____ Model: _____		
4.		DC distribution panel that meets or exceeds the specifications of the following C&D Technologies component: C&D #111-3768-00 Brand: _____ Model: _____		
5.		DC Circuit Breaker, 10 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-10 Brand: _____ Model: _____		
6.		DC Circuit Breaker, 80 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-80 Brand: _____ Model: _____		
7.		DC Circuit Breaker, 15 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-15 Brand: _____ Model: _____		
8.		DC Circuit Breaker, 20 A. Must meet or exceed the specifications of the following C&D Technologies component: C&D #274-2920-20 Brand: _____ Model: _____		
9.		Battery Rack, Open construction, with capacity for 12- each batteries measuring 8.9" (h) X 16.5" (l) X 6.8" (w) or the approximate size of the C&D LS-4-300 battery. Rack specifications should meet or exceed C&D Technologies' Item number RDO1617. Brand: _____ Model: _____		

10.	1	Each	Replacement Battery that meets or exceeds the specifications of the following C&D Technologies component: C&D #LS 12-100. Brand: _____ Model: _____		
11.	1		Replacement Battery that meets or exceeds the specifications of the following C&D Technologies component: C&D #LS 4-300. Brand: _____ Model: _____		
			Total Bid Cost		