FAYDA ENGINEERING & ENERGY SOLUTIONS, LLC

**ADDENDUM NO. 2**
**BIDEN MICROGRID**
**DELAWARE ARMY NATIONAL GUARD**
**1 VAVALA WAY, NEW CASTLE, DE 19720**
**DE ARNG PROJECT: 2023-18**
**NGB PN 100110/94951**

**Date of Report:** October 30, 2026
**FE&ES Comm. No.:** 23-1583

1.0 This addendum, Addendum No. 2, shall be made part of the Project Manual and Drawings dated September 2026 for the "Biden Microgrid".

2.0 No Change in date and time bids are due. Sealed bids for ARNG2318 – BIDEN MICROGRID will be received by the Delaware Army National Guard by mail at the Security Officers Desk in the Main Lobby of the Biden National Guard/Reserve Center, 1 Vavala Way, New Castle, Delaware 19720 **1:00 PM local time on Tuesday, November 10, 2026**, at which time they will be publicly read aloud in the Multi-Purpose Room.

Sealed bids shall be mailed and addressed to the Delaware Army National Guard, 1 Vavala Way, New Castle, Delaware 19720; ATTN: Nikia Wongus, Business Manager. The outer envelope should clearly indicate: "ARNG2318 – BIDEN MICROGRID; – BIDEN MICROGRID – SEALED BID – DO NOT OPEN."

3.0 Changes to Specifications

3.1 Specification Section 27 60 00; Article 1.02B; Change link to current Structured Cabling Contractors to the following link: https://mmp.delaware.gov/Contracts/Details/7310

4.0 Changes to Drawings

4.1 No changes to Drawings.

5.0 Questions/Clarifications

5.1 Can you please provide a detail for the electrical and fiber manholes?

Reply: Additional manhole details will be provided in a forthcoming addendum.

5.2 Can you please provide a single line diagram for the site distribution and fiber?

Reply: Refer to E-26 for Microgrid network communications diagram. Refer to E-19 for SCADA network communications diagram.

5.3 Would the Delaware ANG consider the use of an RTDS simulator to perform Hardware-in-the-Loop (HIL) testing of the microgrid controller prior to on-site commissioning? This approach would allow the microgrid control system and operating sequences to be validated in a simulated environment prior to field deployment and final system commissioning.

Reply: We encourage preliminary testing & commissioning prior to deployment; however, the specifications that identify on site commissioning will not be waived.

5.4 Drawing E-8 and E-12 shows a 450 KW permanent, pad mounted load bank. Is there a load bank specification for this equipment to follow?

Reply: Specification will be provided in a forthcoming addendum

5.5 Drawing E-10; confirm that ATS-2 400A is existing to remain or is it new?

Reply: ATS-2 400A is existing to remain.

5.6 Drawing E-11 confirm that ATS-1 100A is existing to remain or is it new?

Reply: ATS-1 100A is existing to remain

5.7 Drawing E-12 shows (2) new 450 KW generator along with a new BESS. Who is responsible for all the controls site integration between the generator, BESS, and switchgear? Generator control will have MODBUS TCP protocol as specified to communicate.

Reply: Prime contractor is responsible for all site integration of controls. How they delegate this to their subcontractors is up to them.

5.8 Drawing E-26 shows generator 1 and generator 2 controller which will have MODBUS TCP protocol. The serial to fiber transceivers will need to be provided by others and are not part of the generator vendor scope.

Reply: This is to be provided by the Prime Contractor. If not part of the generator vendor scope, prime contractor to provide media converters as required for a complete and operable system.

5.9 Drawing E-12 confirm there will be 800A LSIG electrically, motor operated breakers located inside the 480V switchboard to feed each generator

Reply: LSIG Breaker is confirmed to be in the switchboard.

5.10 Drawing E-13 shows a new 'ATS-FP' rated 1600A. Is this being supplied by fire pump vendor as FP ATS must be NFPA 20 listed and not UL1008 listed.

Reply: Prime contractor is responsible for new ATS. ATS Specification to be provided in a forthcoming addendum.

5.11 Section 263215.00, 1.6 specifies to provide two sets of special wrenches/tools and also a handset for the electronic governor. There are no special tools available or included from Rehlko for the 450 KW generators. Confirm these can be excluded?

Reply: If no special tools are required, they can be excluded.

5.12 Section 263215.00, 1.8 f. Is IBC Seismic Factory Certificate required for both generators per Siet Class D or can be excluded?

Reply: IBC Seismic Factory Certificate is required for both generators.

5.13 Section 263215.00, 2.13 specifies an exhaust pyrometer to show temperature of the generator exhaust. Is this required as it's a special accessory?

Reply: Exhaust pyrometer is required.

5.14 Section 263215, 2.30 specifies generator circuit breaker with NEMA type 4X enclosure mounted on the engine-generator set. Rehlko does not offer NEMA 4X generator mounted breaker. Confirm NEMA 1 breaker inside the generator enclosure/alternator box is acceptable?

Reply: NEMA 1 Breaker is acceptable if inside the generator enclosure/alternator box.

5.15 Section 263215, 3.5.8 d. e. f. g. calls for removing the engine factory installed oil temperature sensing elements and immersing them in a vessel containing controlled-temperature hot oil and record the temperature at which the pre-high alarm activates and the engine shuts down. Per generator vendor this is not a test that is recommended by the manufacturer and is unsafe to perform at the job site. Confirm this test can be simulated at the Rehlko factory with test report provided for the high coolant temperature device before generator shipment?

Reply: This test can be simulated at the generator manufacturer's facility if test report can be provided.

5.16 Section 263215, 3.6.9.2 Voltage and frequency droop test cannot be performed at the site. Confirm this test can be simulated at the Rehlko factory instead with test report provided before shipment?

Reply: This test can be simulated at the generator manufacturer's facility if test report can be provided.

5.17 Section 263215, 3.8.9.1 has conflicting requirements for the number of hours to test each generator at the job site. Can you please confirm number of hours and load % needed at the site test?

Reply: Section 263215.00, 3.8.9.1 does not exist. Please clarify which paragraph has the conflicting requirements.

5.18 Section 263215.00, 3.10 confirm if two separate 8-hour training sessions are required per specs as item 3.11 says 12 hours of normal working hours so there is conflicting requirements?

Reply: 3.10 states The duration of instruction must be for not less than one 8 hour working day for instruction of operating personnel and not less than one 8 hour working day for instruction of maintenance personnel. 3.11 states The training period must consist of a total 12 hours of normal working time and must start after the system is functionally completed but prior to final acceptance. 3.10 has two traning requirements, one for operating personnel and one for maintenance personnel. 3.11 is specifically for operating personnel and can be reduced to 8 hours.

5.19 Section 25 05 11.50 01 "Cybersecurity for Facility-Related Control Systems – DDC and Metering" is listed, but we didn't find it bound in our Project Manual.

Reply: Delete Section 25 05 11.50 01 from Table of Contents.

5.20 Section 25 05 11.01 "Cybersecurity for Electrical Distribution SCADA Facility-Related Control Systems – DDC and Metering" is listed but isn't bound in our set. We did find bound section 25 05 11.50 04, which covers SCADA electrical control systems.

Reply: Delete Section 25 02 11.01 from Table of Contents. Utilize SECTION 25 05 11.50 04 CYBERSECURITY FOR FACILITY-RELATED SCADA ELECTRICAL CONTROL SYSTEMS.

5.21 The section listed as 26 05 11.02 (Microgrid and BESS cybersecurity) is bound in our set as 25 05 11.50 02.

Reply: Delete Section 26 05 11.02 from Table of Contents. Utilize SECTION 25 05 11.50 02 CYBERSECURITY FOR MICROGRID AND BESS FACILITY-RELATED CONTROL SYSTEMS

5.22 The section listed as 25 05 11.50 02 (Fire Alarm cybersecurity) is bound as 25 05 11.02.

Reply: Utilize SECTION 25 05 11.02 CYBERSECURITY FOR FACILITY-RELATED FIRE ALARM SYSTEMS.

5.23 The section listed as 25 08 10.01 appears to be bound under the number 25 05 11 (SCADA UMCS Front End and Integration System Testing).

Reply: Update section to SECTION 25 08 10.01 ELECTRICAL DISTRIBUTION SCADA UTILITY MONITORING AND CONTROL SYSTEM (UMCS) FRONT END AND INTEGRATION SYSTEM TESTING.

5.24 The "Made in America" requirement doesn't state a standard, threshold or waiver process.

Reply: All equipment under this project shall meet the latest requirements of the “Buy American Act”. Distributors and suppliers shall determine if their equipment meets this requirement. No other information is available.

5.25 Section 25 10 10.02 describes a 450 kW diesel generator, while 01 10 00 describes two 450 kW natural gas generators (33 51 15 covers the natural gas piping to the generators).

Reply: Generators are natural gas generators.

5.26 We haven't received any addenda to date. Since the pre-bid meeting was held to establish the subcontractor listing, we want to be sure we aren't missing anything, and that you have the right contact details for delivering addenda to us.

Reply: All bidders that attended the Mandatory Pre Bid Meeting received Addendum #1-Pre Bid Meeting Minutes.

5.27 Will Division 25 work (SCADA and Microgrid UMCS front end, integration, and control system cybersecurity) be a separate subcontractor category from Electrical? We'd kindly ask that it be listed separately, and we'd be grateful for your consideration.

Reply: See Subcontractor list in Addendum #1.

5.28 The Invitation to Bid and Bid Form describe a single lump-sum Base Bid for all work at the five sites (Biden Headquarters, AASF, AASF Cold Storage Building, AASF Fire Pump House and Duncan Readiness Center). Could you please confirm that partial bids, or bids for a single site or system, will not be accepted? If they are, we'd appreciate knowing how they should be submitted and evaluated.

Reply: Refer to Instructions to Bidders, Section 0 21 13. Partial bids will not be accepted.

5.29 Ref Spec 25 10 10.02 §1.1; We understand the Contractor selects the Microgrid Controller vendor. Are there any pre-qualified or preferred vendors, or minimum vendor qualifications (installed base, IEEE 2030.7/2030.9 compliance evidence)? We'd like to be sure we choose well.

Reply: No pre-qualified vendors are required.

5.30 Ref Spec 25 10 10.02 §1.1; The Microgrid Controller section describes closed-loop control as the "preferred control methodology," with PMU data (IEEE C37.118) given as an example. Would you be able to tell us whether closed-loop control is required for compliance, or optional?

Reply: Closed-loop control is required.

5.31 Ref Spec 25 10 10.01 §1.1.1.1; 25 10 10.02; The Electrical Distribution SCADA UMCS section requires Niagara Framework Version 4.0 or later. Is there an existing DE ARNG Niagara supervisor or enterprise front end that this system must connect to? If so, we'd appreciate knowing which version it is and who administers it. We'd also like to confirm whether the Microgrid UMCS (25 10 10.02) is expected to use Niagara.

Reply: Response to be provided in a forthcoming addendum.

5.32 Ref Spec 25 10 10.02 §1.1; Must the UMCS integrator hold current Tridium (Niagara) certification? We'd also appreciate knowing who will hold the Niagara licenses after turnover.

Reply: DE ARNG will hold the Niagara licenses.

5.33 E-15 and E-22 show a rack-mount server and KVM in the SCADA and Microgrid cabinets, and E-27 also shows an HMI and serial port server in the Microgrid cabinet. Are any operator workstations required outside the switchgear enclosure (for example in Biden Headquarters)? If so, we'd appreciate knowing who furnishes them.

Reply: Laptop is in rack and furnished by the contractor. No other operator workstations will be required.

5.34 Ref Spec 25 10 10.02 §1.1; The Government provides the Layer 3 Ethernet switch. Could you let us know when it will be available, and who will configure it (VLANs, routing, IP plan)? We'd also be grateful to know whether the Government will provide the IP addressing scheme.

Reply: This will be addressed during construction.

5.35 E-27 shows a firewall and an ISP connection at telecom backboard 1A01-1X, and 01 10 00 §1.03.A.8 calls for an encrypted remote connection to the BESS controller. Could you help us understand who furnishes the firewall and the ISP circuit, and who pays the recurring service costs? We'd also like to know whether vendor remote access is permitted, and which method is approved.

Reply: Contractor is responsible for the firewall. DE ARNG is responsible for the ISP circuit. DE ARNG would be responsible for reoccurring services costs. Coordinate with DE ARNG on vendor remote access.

5.36 Ref Drawings E-16; E-23; We'd appreciate knowing who furnishes and approves the GNSS time source and its roof-mounted antenna, including surge protection.

Reply: Contractor to procure and program GNSS. Coordination approvals and installation with DE ARNG.

5.37 REF Spec 26 05 73 & Drawing E-14; Would you kindly confirm that the Contractor develops relay settings and protection coordination through the 26 05 73 study?

Reply: Contractor responsible for developing relay settings and protection coordination.

5.38 Ref Spec 25 10 10.02 & 26 33 53.02; for factory acceptance tests requiring Government witnesses, could you let us know who would bear the travel costs?

Reply: Government would be responsible for their own travel costs.

5.39 Training is specified in several sections. We'd love to know whether we may combine control system and cybersecurity training sessions, as long as all content and hours are met.

Reply: No. Trainings would involve different audiences. Training is to be kept separate.

5.40 Ref Spec 26 32 15.00; Do generator local controls need to integrate only with the Microgrid Controller (Modbus TCP), or also with any building automation system? Thank you for helping us get this right.

Reply: Generator local controls need to integrate only with the Microgrid Controller.

5.41 Ref Spec 25 05 11.50 02 §3.16; We understand the Government performs the RMF assessment, and the Contractor provides 16 hours of validation support. Would you kindly confirm that ATO is not a condition of Substantial Completion or final payment? We'd also appreciate knowing how schedule is handled if the ATO is delayed for reasons outside the Contractor's control.

Reply: ATO is required to be achieved project Substantial Completion.

5.42 Ref Spec 25 05 11.50 01; We'd appreciate knowing which DDC or building automation systems, if any, are in scope for cybersecurity requirements.

Reply: Cybersecurity only applies to Microgrid, Fire Alarm, and SCADA systems.

5.43 Could you help us understand which fire alarm systems are new or modified under this contract and subject to 25 05 11.02?

Reply: 5 05 11.02 is included in project with modifications to the fire pumphouse.

5.44 Ref Spec 25 05 11.50 02 §1.10.8; The Evaluate-STIG tool requires CAC access. Could you let us know whether the Government will run the scans or provide the tool, or will sponsor contractor access?

Reply: This will be addressed during construction.

5.45 25 05 11.50 02 §1.7 requires encrypted submittals to be sent via DoD SAFE using FIPS 140-2 encryption. Could you let us know who we should send them to, and how the Government will handle an alternate if DoD SAFE isn't available to us?

Reply: This will be addressed during construction.

5.46 Ref Spec 25 05 11.50 02 §1.8.2; Does the IAT Level I certification requirement apply to equipment vendor field technicians (BESS, controller, switchgear) who configure devices? We'd also be grateful to know whether DoD 8140 qualifications are accepted in place of 8570 baseline certifications.

Reply: Yes, IAT Level 1 certification is required per specifications.

5.47 Ref Spec 25 05 11.50 02 §1.8.2; We'd be very grateful if you could provide the USACE OT/Control Systems Acceptable Use Policy before bid.

Reply: This will be addressed during construction.

5.48 Ref Spec 25 05 11.50 02 §1.8; Are contractor laptops or a temporary contractor network permitted on site during commissioning? If so, we'd appreciate knowing what compliance statements are required before connection.

Reply: This will be addressed during construction.

5.49 Ref Spec 25 10 10.02 §1.1; Is any connection to the DoDIN or the Army/Guard enterprise network planned now or later? 25 10 10.02 §1.1 calls for a Cybersecurity Level 3 Field Point of Connection with a Government-provided Layer 3 switch, and we'd appreciate knowing who owns the boundary at that point.

Reply: This will be addressed during construction.

5.50 Ref Spec 25 05 11.50 02 §3.10; Could you help us understand who performs vulnerability scanning (for example ACAS), and what remediation window applies before acceptance?

Reply: This will be addressed during construction.

5.51 Ref Spec 01 10 00 §1.03.C; Which standard applies to "Made in America": the Buy American Act, the Build America, Buy America Act, or another test? We'd also appreciate knowing what domestic content threshold applies.

Reply: All equipment under this project shall meet the latest requirements of the “Buy American Act”. Distributors and suppliers shall determine if their equipment meets this requirement. No other information is available.

5.52 Ref Spec 01 10 00 §1.03.C; Does it apply to network switches, firewalls, servers, software and firmware? If no compliant product exists, we'd appreciate knowing whether there is a waiver process.

Reply: All equipment under this project shall meet the latest requirements of the “Buy American Act”. Distributors and suppliers shall determine if their equipment meets this requirement. No other information is available.

5.53 27 10 00 §2.12 requires ICS equipment to be TAA compliant and DoDIN APL listed where applicable. Does that also apply to Division 25 and 26 network and control equipment, and does NDAA Section 889 apply? Thank you for clarifying.

Reply: Division 25 and 26 also requires ICS equipment to be TIAA compliant and DoDIN APL listed where applicable. NDAA Section 889 also applies.

5.54 Ref Spec 01 10 00 §1.03.C; What form of certification would you like to receive with submittals?

Reply: To be reviewed during construction.

5.55 Please clarify the extents of the gas work to be completed. The plans show a gas line going to meter pad but do not clarify pipe sizing/material or where the gas line to be connected to in the roadway. There is concrete meter pad detail but no detail for meter. Who is responsible for installing the meter? Please provide more detail/information on this.

Reply: Refer to P&ID on sheet M-3 for pipe sizing and material. Delmarva installs gas meter.

5.56 Please provide details for All electrical manholes to be installed. No details have been provided.

Reply: Additional manhole details will be provided in a forthcoming addendum.

5.57 The civil drawings call for the underground electrical pipe to be (2) 4" PVC pipes with no detail provided on the plans for trenching. The electrical drawings have a few duct bank details, but none that match (2) 4" pvc pipe trenching. Please clarify what conduit quantities and sizes are to be installed for ALL underground electrical/telecom and also clarify what detail we are to use for each. We will need to know if concrete duct bank is required and if so, where?

Reply: Ductbank is required for all conduit installations. Utilize Electrical details and one line-diagram for additional information.

5.58 There are areas where we are crossing the existing fence with underground electrical conduit. Are we allowed to take down/reuse the existing fence or are we required to replace the fence in these locations?

Reply: It depends on which fence line you are taking as we cannot reduce security risks. If a fence is permitted to be taken down the site will need to be secured daily and the fence can be reused if it meets current specifications.

5.59 Pavement restoration patch on sheet C-3 calls for 8" Class A concrete and 2" Type C hot mix. Please confirm that this is required at all pavement restoration areas, including in the parking lot/drive areas that are being disturbed.

Reply: Yes, the same restoration patch shall be used for all pavement restoration areas.

**Original Signature on File**
Edward Fayda, P.E.

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Attachments: None

cc: All Registered Plan Holders