

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 28-Nov-2011	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable) 1 15
6. ISSUED BY AFGHANISTAN DISTRICT SOUTH (AES) US ARMY CORPS OF ENGINEERS APO AE 09355	CODE W5J9LE	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W5J9LE-12-T-0004	
		X	9B. DATED (SEE ITEM 11) 26-Nov-2011	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this Amendment is to: 1.) Update the Performance Work Statement to include an Attachment 1 which lists the generators and information concerning them. 2.) Answer a question received in response to the RFQ. See continuation page. Offerors must acknowledge this Amendment by submitting a signed copy of it or referencing the Amendment in their submittal.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		28-Nov-2011

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 1-Q&A

Question 1:

Can you clarify the locations of Camp Eagle and Camp Zafar?

Answer: A PDF file titled "ProjectLocations" has been uploaded to fedbizopps.gov which shows the locations in blue.

SECTION SF 1449 - CONTINUATION SHEET

The following have been modified:

PERFORMANCE WORK STATEMENT

PERFORMANCE WORK STATEMENT (PWS)

*ANA Generator Overhauls, Camp Zafar, Herat Province
Also, Camp Eagle and Camp Hero, Kandahar Province*

8 November 2011

1.0 GENERAL

This project is for overhaul work to the generators described below located at Camp Eagle, Qalat District, Zabul Province; Camp Hero, Kandahar District, Kandahar Province; and Camp Zafar, Guzara District, Herat Province. Site coordination will be provided to the contractor at the post award conference. All services shall be performed in strict accordance with the specifications as described in the Performance Work Statement, and subject to the other terms and conditions as described herein

1.1 SCOPE

The contractor is to provide a cylinder head overhaul (2nd Interval) and all associated operations, repairs, and testing per the manufacturer's recommendations to the generators in Power Plant #1 at Camp Eagle, Power Plant #1 at Camp Hero, and Power Plant #1 at Camp Zafar. See Appendix A for a list of inspection items. See Attachment 1 for listing of generators.

There are six (6) Caterpillar 3512B series generators in the Afghan National Army (ANA) Camp Eagle's PP#1 with the run times shown below. See Attachment 1 for manufacturer and model of each generator. A summary of the generator operating hours as of Oct 2011 are shown below:

GEN #1 – 18,057 hrs	GEN #4 – 17,610 hrs
GEN #2 – 17,776 hrs	GEN #5 – 17,611 hrs
GEN #3 – 17,965 hrs	GEN #6 – 17,770 hrs

There are four (4) Caterpillar 3512B series generators in the Afghan National Army (ANA) Camp Hero's PP#1 with the run times shown below. See Attachment 1 for manufacturer and model of each generator. A summary of the generator operating hours as of Oct 2011 are shown below:

GEN #2 – 17,050 hrs	GEN #5 – 14,718 hrs
GEN #3 – 18,570 hrs	
GEN #4 – 16,370 hrs	

There are six (6) Caterpillar 3512 series generators in the Afghan National Army (ANA) Camp Zafar's PP#1 with the run times shown below. See Attachment 1 for manufacturer and model of each generator. A summary of the generator operating hours as of Oct 2011 are shown below:

GEN #1 – 15,750 hrs	GEN #4 – 11,217 hrs
GEN #2 – 9,507 hrs	GEN #5 – 16,542 hrs
GEN #3 – 13,797 hrs	GEN #6 – 13,465 hrs

Appendix A:

Cylinder Head Overhaul: - Tasking may include, but is not limited to the following: Perform all of the operations, repairs, and testing per the per the manufacturer's recommendation.

Mechanical:

A. Cylinder heads (each) - removal, cleaning, disassembly, inspection, testing and as-required refurbishment or replacement.

- Rocker arms
- Rocker arm shafts
- Inlet and exhaust valves
- Valve bridges (if applicable)
- Valve bridge locating studs
- Valve guides
- Valve springs
- Valve spring caps, rotators, keepers
- Valve seats
- Fuel gallery leak test
- Cylinder head inspection, hydrostatic test and NDT (Dye-penetrant or Magnetic Particle inspection)

B. Other generator systems – cleaning, inspection and as-required refurbishment, to include the following:

- Disassemblies of a limited number of cylinder components (pistons/liners/con-rod bearings) to determine wear progression/need for further investigation.
- Coolant draining/refill
- Fuel injector calibration
- Fuel injection pump calibration
- Fan hub
- Vibration damper
- Water pump (s)

Major component items such as the (alternator, turbochargers, radiator, fan motors, etc.) shall be inspected to ensure all generator systems are addressed appropriately.

Electrical:

- Starting system:
- New batteries will be installed (if needed)
- Cleaning, inspection and as-required refurbishment or replacement of system components
- Battery cables o Battery support/securing devices
- Auxiliary battery charger, if equipped

- Battery charging alternator
- Starter motor or Starter solenoid switches

B. Engine controls/sensors:

- Cleaning, inspection, testing and as re-required refurbishment or replacement of system components
- Switches, relays and timers
- Speed, pressure and temperature sensors
- Panel displays/gauges
- Flexible panel membranes
- PCBs o Shut-down solenoid(s)
- Electronic governor

C. Main circuit breaker:

- Cleaning, inspection, testing and as-required refurbishment or replacement of components o Breaker assembly -Bus bar/connection lugs -Cabling -Solenoid(s) -Charging motor

D. Alternator and associated controls/sensors:

- Cleaning, inspection, testing and as re-required refurbishment or replacement of system components
- Excitation components (ex PMG or bridge rectifier)
- Windings/insulation Bus bars/leads
- Terminations
- AVR
- CTs and PTs
- Synchronizing/load sharing boards/components
- Other PCBs

E. Wiring harnesses (looms):

- Cleaning, inspection, and as re-required refurbishment or replacement of system components
- Wire condition
- Bundling materials
- Terminations

F. Miscellaneous motors/other electrical components:

- Cleaning, inspection, and as re-required refurbishment of miscellaneous components
- Fan or pump motors
- Solenoid valves
- Contactors/relays
- Switches
- Replacement of all missing covers, locating brackets, conduit, cable tray sections, clamps or other cabling/conduit securing devices

G. Generator electronic command controller:

- Controller shall be certified to be reused per OEM. Cleaning, inspection, and as required refurbishment of miscellaneous components
- PCB boards
- PCB cards
- PCB terminals and wiring
- Replacement of electronic controller display

Special Note: When the generator is opened it may become necessary to perform a “bottom end” or Major Overhaul. In this case, the Government may exercise any of the options individually, some, or all of the Options included in the original pricing schedule at any time during the period of performance.

Option A is Camp Eagle’s Afghan National Army (ANA) PP#1:

Major overhaul (Option A)	
GEN #1 – 1056KW	GEN #4 – 1056KW
GEN #2 – 1056KW	GEN #5 – 1056KW
GEN #3 – 1056KW	GEN #6 – 1056KW

Option B is Camp Hero’s Afghan National Air (ANA) PP#1.

Major overhaul (Option B)	
GEN #2 – 1056KW	GEN #5 – 1056KW
GEN #3 – 1056KW	
GEN #4 – 1056KW	

Option C is Camp Zafar’s Afghan National Air (ANA) PP#1.

Major overhaul (Option C)	
GEN #1 – 1056KW	GEN #4 – 1056KW
GEN #2 – 1056KW	GEN #5 – 1056KW
GEN #3 – 1056KW	GEN #6 – 1056KW

See appendix B for a list of inspection items below.

Appendix B:

MAJOR OVERHAUL:

Mechanical:

A. Pistons, connecting rods, cylinder liners - cleaning, disassembly, inspection, testing and as-required refurbishment or replacement.

B. Crankshaft/main bearings – cleaning, inspection and as-required refurbishment or replacement, including:

- Journal/fillet condition
- Thrust face condition
- Measurement of journals
- Wear sleeves
- Main bearing caps and bolts
- Vibration damper
- Drive gear(s)
- Flywheel, including ring-gear
- Drive plates for alternator

C. Cylinder block – cleaning, inspection and as-required refurbishment,

- Inspection of mating/sealing surfaces for trueness, cracks, corrosion or fretting wear
- Replacement of camshaft bushings
- Replacement of seals
- Hydrostatic testing
- Inspection/replacement of locating pins and studs
- Cleaning of all oil/fuel galleries
- Cleaning/inspection of piston cooling oil nozzles
- Inspection of all studs and tappings
- Inspection of coolant galleries (corrosion/deposits)

D. Gear Train(s) – Inspection, and as-required refurbishment, or replacement of gears, including associated bearings and bushings. Gears on driven components will be included.

E. Camshafts/Valve Train – Inspection and as-required refurbishment, including: of bearing journals, drive gear and lobes for wear/damage.

- Cam journals and lobes
- Bushings and shafts
- Levers/Rollers/Pins
- Push rods

F. Cooling system - Cleaning, inspection, testing and as-required refurbishment or replacement of cooling system components, including: Radiator or Water pumps (Jacket and Aftercooler, if appropriate)

- Water pump drive adapter (if used)
- Oil cooler(s)
- Aftercooler cores
- Aftercooler heat exchanger(s)
- Temperature regulators/thermostats
- Valves

G. Water treatment accoutrements: - Inspection/refurbishment of fan drive components, including:

- Bearings o Shafto Grease fittings
- Sheave(s)
- Fan hubs and blades
- Tensioners
- Idlers
- Fan shrouds and guards
- Cleaning of all air ducting
- Replacement of all gaskets, seals, belts and hoses

H. Lubrication system:

- Cleaning, inspection and as-required refurbishment or replacement of system components
- Pump/Pressure relief valve(s)
- Filter heads
- Piping
- Piston cooling nozzles
- Replacement of all gaskets, seals and hoses

I. Fuel system:

- Cleaning, inspection and as-required refurbishment or replacement of fuel system components
- Supply (lift) pump
- Filter heads
- Piping
- Fuel/water separator
- Cooler/ Injection pump
- Injectors (atomizers)
- Relief valves
- Pressure/volume control orifices
- Manifolds/valveso
- Installed fuel tank, if in use
- Replacement of all gaskets, seals, fuel injectors, and hoses

J. Combustion air system:

- Cleaning, inspection and as-required refurbishment of air system components, including
- Air cleaner(s)
- Turbocharger(s)
- Air ducting

- Replacement of all gaskets, seals and hoses
- Testing/replacement of air filter restriction indicator(s)

K. Exhaust system - Inspection and as-required refurbishment or replacement of system components, including:

Note: No asbestos will be used in refurbishment actions

- Exhaust manifold o Gaskets and sealing rings
- Exhaust piping and silencers
- Flexible joints o Insulation/heat shields
- Support brackets
- Rain caps and collars, if installed
- Replacement of all gaskets and seals
- Corrosion control and repainting

Electrical:

1.0 Main rotor and stator (field) shall be rewound, exciter replaced and alternator components shall be baked and reinsulated, test to referenced standards or certified for reuse per OEM specifications for continued service. The contractor shall provide a cost analysis of the purchase of a new alternator versus rewinding. New alternator shall meet NEMA MG, reference standards, and meet or exceed existing alternator OEM standards. New alternator shall have Class H insulation; under no circumstances shall a part of lower durability or quality be substituted.

2. All alternator auxiliary electrical components, bushings, CTs, PTs, RTDs, TCs shall be replaced with new certified OEM parts.

Perform all of the operations, repairs, and testing per the per the manufacturer's recommendations. These appendices are items to be looked at and evaluated and are not all inclusive. The contractor shall obtain the latest manufacturers manuals for the exact model generator defining the specific requirements for engine overhaul, including startup and commissioning procedures.

Before work commences the contractor submittal package shall consist of:

1. Manufacturer manuals for overhauling requirements for a complete generator overhaul, including the engine and the alternator. These manuals will be the basis of performance for project scope and completion.
2. A project schedule indicating when each generator will be overhauled.

The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, labor, and any other items and non-personal services necessary to perform

No more than one generator at a facility may be worked on at a time. No generator shall be overhauled unless it is in operating condition at the time work begins and it has been verified by the COR the unit needs overhauled.

Special Note: If after the commencement of work and the opening of the units, the contractor believes the unit to be non-repairable or unserviceable (service and repair costs exceed 75% of the cost a replacement), he shall notify the COR and the Contracting Officer in writing.

1.2 PERIOD OF PERFORMANCE:

Reference the Delivery Information section that will be in the SF 1449 award for the specific period of performance. The Period of Performance is estimated at 120 days from date of award.

1.3 ENGLISH LANGUAGE REQUIREMENTS

All information shall be presented in English. The Contractor shall have a minimum of one (1) English-speaking representative to communicate with the COR at all times when work is in progress.

1.4 ENVIRONMENTAL PROTECTION

1.4.1 APPLICABLE REGULATIONS

The Contractor shall comply with all Host Nation laws, rules, regulations or standards concerning environmental pollution control and abatement with regard to discharge of liquid waste into natural streams or manmade channels. The Contractor shall review host nation and U.S. Government environmental regulations with the Contracting Officer prior to design and discharge of any liquid wastes into natural streams or manmade channels.

1.4.2 NOTIFICATION

The Contracting Officer will notify the Contractor in writing of any observed non-compliance with the foregoing provisions. The Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No extension of time or damages will be awarded to the Contractor unless it was later determined that the Contractor was in compliance.

1.4.3 SPILLAGES

Measures shall be taken to prevent chemicals, fuels, oils, greases, bituminous materials, waste washings, herbicides and insecticides, and construction materials from polluting the construction site and surrounding area.

Contractor will be responsible for any cleanup costs in the event of contamination, including improper disposal.

1.4.4 DISPOSAL

The Contractor is responsible for properly disposing all waste material resulting from this project. Disposal of any materials, wastes, effluents, trash, garbage, oil, grease, chemicals, etc., shall be subject to the approval of the Contracting Officer. Burning at the project site for the disposal of waste and debris will not be permitted.

1.5 ACRONYMS:

ACOR Alternate Contracting Officer's Representative

AFARS	Army Federal Acquisition Regulation Supplement
AR	Army Regulation
CCE	Contracting Center of Excellence
CFR	Code of Federal Regulations
CLIN	Contract Line Item Number
CONUS	Continental United States (excludes Alaska and Hawaii)
COR	Contracting Officer Representative
COTR	Contracting Officer's Technical Representative
COTS	Commercial-Off-the-Shelf
DA	Department of the Army
DD250	Department of Defense Form 250 (Receiving Report)
DD254	Department of Defense Contract Security Requirement List
DFARS	Defense Federal Acquisition Regulation Supplement
DMDC	Defense Manpower Data Center
DOD	Department of Defense
FAR	Federal Acquisition Regulation
HIPAA	Health Insurance Portability and Accountability Act of 1996
HVAC	Heating, Ventilation, and Cooling
IJO	Individual Job Order
KO	Contracting Officer
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
ODC	Other Direct Costs
PIPO	Phase In/Phase Out
POC	Point of Contact
PRS	Performance Requirements Summary
PWS	Performance Work Statement
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Program
TE	Technical Exhibit

1.6 GOVERNMENT FURNISHED ITEMS AND SERVICES:

Services: The Government will not provide any services under this contract.

Facilities: The Government will not provide any facilities under this contract.

Utilities: The Government will not provide any utilities under this contract.

Equipment: The Government will not provide any equipment under this contract.

Materials: The Government will not provide any materials under this contract.

1.7 TEMPORARY STRUCTURES

The Contractor shall erect suitable temporary facilities, lighting, and necessary structures to safeguard the site, materials and plant against damage or theft and for the protection of the general public and shall adequately maintain the same throughout the course of the contract.

1.7.1 PROJECT CHECKLISTS

The Contractor shall provide completed checklists based on manufacturer requirements from the manufacturer manuals to verify completion of items for each generator submitted to the COR upon completion of the work.

1.7.2 OPERATING INSTRUCTIONS

The Contractor shall provide revised operating instructions if changes have been made in the design and operation of the generators, synchronizing equipment, load bank, and other associated equipment. The Contractor shall submit these revised instructions to the COR for approval.

1.8 LIMITATIONS OF WORKING SPACE

The Contractor shall, except where required for service connections or other special reason(s), confine his operations strictly within the boundaries of the site. Workers will not be permitted to trespass on adjoining property. Any operations or use of space outside the boundaries of the site shall be by arrangement with all interested parties. It must be emphasized that the Contractor must take all practical steps to prevent his workers from entering adjoining property and in the event of trespass occurring the Contractor will be held entirely responsible. Areas located immediately outside the construction area are known to contain mines and unexploded ordnance (UXO). Contractors assume all risks when venturing in or out of the designated work areas.

1.9 UNEXPLODED ORDANCE (UXO) – MINE REMOVAL AND CLEARANCE

UXO-mine removal and clearance is not required.

1.10 PORTABLE SANITARY FACILITIES

Contractor shall furnish and install portable latrine units with hand-sanitizer dispenser at site location(s). Portable latrines shall be mix of western and eastern style units. Mix shall be determined by Contracting Officer.

Contractor shall furnish and install adequate hand-wash units at site location(s). Each wash unit shall consist of a basin, foot controlled wash water dispenser, hand soap dispenser, and towel dispenser.

1.11 EQUIPMENT REQUIREMENTS

Unless noted otherwise, all material and equipment used shall be of the same model and type as that already installed. Material and equipment installed under this contract shall be for the appropriate application and installed in accordance with manufacturers recommendations. Items or equipment from local suppliers or manufacturers not meeting these requirements must be approved by the Contracting Officer.

Major components of equipment shall have the manufacturer's name, address, type or style, and part number attached to it. All equipment delivered and placed in storage, prior to installation, shall be protected from the weather, humidity and temperature variation, dirt and dust, and any other contaminants. All equipment supplied by the Contractor shall be in new condition, undamaged and unused.

1.11.1 DELIVERY, STORAGE, AND HANDLING

Deliver equipment and material required for this project to their final locations in protective wrappings, containers, and other protection that will exclude dirt and moisture and prevent damage from construction operations. Remove protection only after equipment is safe from such hazards.

1.12 SUBMITTALS

Within 30 days of award, the contractor shall submit the following:

- a. All manufacturer's manuals describing the requirements for generator overhaul including engine overhaul, alternator overhaul, and commissioning. The manuals shall be specific to the model of each generator.

1.13 APPLICABLE STANDARDS

The latest edition of the following codes and technical criteria and those referenced herein shall be required for this project. References within each reference below shall be required and adhered to. This list is not exhaustive and is not necessarily complete.

ASME - American Society for Mechanical Engineering
ASTM - American Society for Testing and Materials
AWS - American Welding Society
IEEE C2, National Electrical Safety Code (NESC)
IFGC – International Fuel Gas Code
Codes and Standards of the National Fire Protection Association (NFPA)
National Electrical Safety Code (NESC)
Institute of Electrical and Electronic Engineers (IEEE C2)
British Standards 7671, Latest Edition
NFPA 70, National Electrical Code
NFPA 110, Standard for Emergency and Standby Power Systems
NFPA 30, Flammable and Combustible Liquids Code
NFPA 90A, Air Conditioning and Ventilating Systems,
NFPA 37
IFGC – International Fuel Gas Code
IMC – International Mechanical Code
IPC – International Plumbing Code
IEEE C2, National Electrical Safety Code (NESC)
TM 5-805-4 Noise and Vibration
TM 5-811-1 Electrical Power Supply and Distribution
UFC 3-540-04N Design: Diesel Electric Generating Plants
UFC 3-550-03FA Design: Electrical Power Supply and Distribution System

ACI 301M Specifications for Structural Concrete (latest edition), American Concrete Institute
 ACI 318 Building Code Requirements for Structural Concrete (latest edition), American Concrete Institute
 American Institute of Steel Construction (AISC), Specifications for Structural Steel Buildings
 ARI - Air Conditioning and Refrigeration Institute
 ASCE 7, Minimum Design Loads for Buildings and Other Structures
 ASHRAE - American Society of Heating, Refrigeration and Air-Conditioning
 ASHRAE Standard 62.1-latest edition, Ventilation for Acceptable Indoor Air Quality
 ASME - American Society for Mechanical Engineering
 ASTM - American Society for Testing and Materials
 AWS D1.1, Structural Welding Code – Steel (latest edition), American Welding Society
 NFPA 1, General Fire Protection
 TM 5-811-1 Electrical Power Supply and Distribution
 UFC 1-200-01, Design: General Building Requirements
 UFC 1-300-07A Design Build Technical Requirements
 UFC 1-300-09N, Design Procedures
 UFC 3-310-01, Structural Load Data
 UFC 3-410-01FA Heating, Ventilating and Air Conditioning
 UFC 3-410-02A, HVAC Control Systems,
 UFC 3-410-04N, Industrial Ventilation
 UFC 3-430-01FA, Heating and Cooling Distribution Systems
 UFC 3-460-01, Petroleum Fuel Facilities,
 UFC 3-501-03N, Electrical Engineering Preliminary Considerations
 UFC 3-520-01, Interior Electrical Systems
 UFC 3-540-04N Design: Diesel Electric Generating Plants
 UFC 3-550-03FA Design: Electrical Power Supply and Distribution Systems
 UFC 4-020-03, Security Engineering: Fences, Gates, and Guard Facilities
 Applicable UL Standards
 Unified Facility Criteria (UFC) is available online at:
http://www.wbdg.org/ccb/browse_cat.php?o=29&c=4

Standards other than those mentioned above may be accepted if the standards chosen are internationally recognized and meet the minimum requirements of the specified standards. The Contractor shall be prepared to submit proof of this if requested by the Contracting Officer.

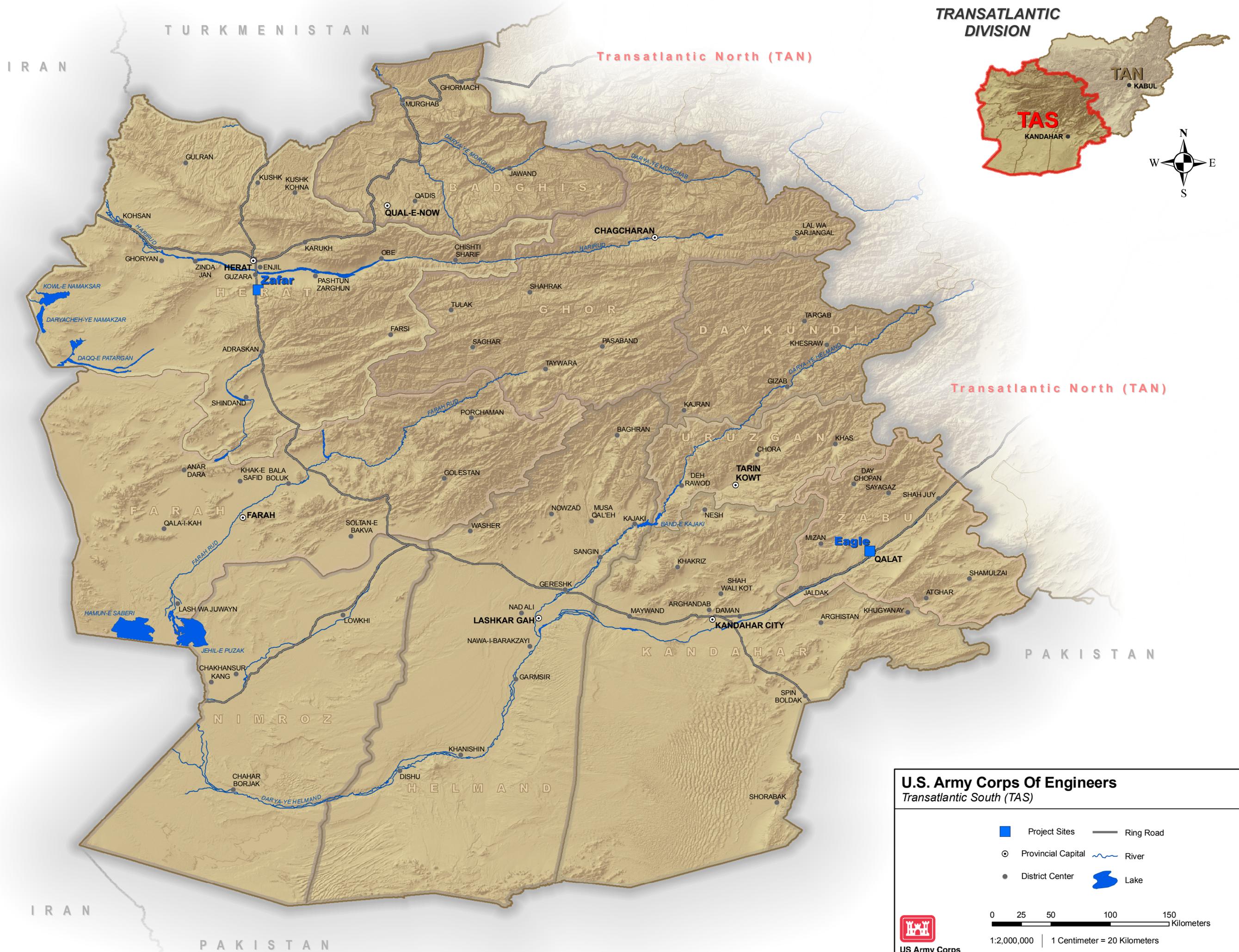
Attachment 1-

Camp Eagle ANA Facility					
Gen Set Nbr	Manufacturer	Model #	Serial #	K. Watt	KVA
Gen #1	Caterpillar	3512B	6DW01732	1056	1320
Gen #2	Caterpillar	3512B	6DW01736	1056	1320
Gen #3	Caterpillar	3512B	6DW01734	1056	1320
Gen #4	Caterpillar	3512B	6DW01733	1056	1320

Gen #5	Caterpillar	3512B	6DW01735	1056	1320
Gen #6	Caterpillar	3512B	6DW01737	1056	1320
Camp Hero ANA Facility					
Gen Set Nbr	Manufacturer	Model #	Serial #	K. Watt	KVA
Gen #2	Caterpillar	SR4B / 3512B	CAT00000VCMC01370	1056	1320
Gen #3	Caterpillar	SR4B / 3512B	CAT00000CCMC01358	1056	1320
Gen #4	Caterpillar	SR4B / 3512B	CAT00000VCMC01384	1056	1320
Gen #5	Caterpillar	SR4B / 3512B	CAT00000LCMC01372	1056	1320
Camp Zafar ANA Facility					
Gen Set Nbr	Manufacturer	Model #	Serial #	K. Watt	KVA
Gen #1	Caterpillar	3512	CMCO1383	1056	1320
Gen #2	Caterpillar	3512	CMCO1356	1056	1320
Gen #3	Caterpillar	3512	CMCO1382	1056	1320
Gen #4	Caterpillar	3512	CMCO1379	1056	1320
Gen #5	Caterpillar	3512	CMCO1373	1056	1320
Gen #6	Caterpillar	3512	CMCO1364	1056	1320

--END OF SECTION--

(End of Summary of Changes)



U.S. Army Corps Of Engineers
Transatlantic South (TAS)

- Project Sites
- Provincial Capital
- District Center
- Ring Road
- ~ River
- Lake

0 25 50 100 150 Kilometers

1:2,000,000 | 1 Centimeter = 20 Kilometers

US Army Corps of Engineers
 Transatlantic South

Path: N:\2011 NEW DATA STRUCTURE\2011 PROJECTS\AES\AES AOR\O_M_fcb_28NOV2011\MXD\sl File\Proj_Locations.mxd | Author: JAM - 28 NOV 2011 @ 17:30 - ANSI C (17"x 22")

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