

The Afghanistan Engineering Support Program assembled this annual report. It is an approved, official USAID document. Budget information contained herein is for illustrative purposes. All policy, personal, financial, and procurement sensitive information has been removed. Additional information on the report can be obtained from Firouz Rooyani, Tetra Tech Sr. VP International Operations, (703) 387-2151.



USAID | **AFGHANISTAN**
FROM THE AMERICAN PEOPLE

ENGINEERING SUPPORT PROGRAM

Contract No. EDH-I-00-08-00027-00

Task Order No. 1

Annual Report 2013



December 12, 2013

This publication was produced for review by the United States Agency for International Development. It was prepared by Tetra Tech, Inc.

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December 12, 2013

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Office of Economic Growth and Infrastructure (OEGI)
U.S. Agency for International Development
Great Massoud Road
Kabul, Afghanistan

Re: Contract No. EDH-I-00-08-00027-00
Task Order No. 1
Afghanistan Engineering Support Program (AESP)
Annual Report FY2013

Dear [REDACTED]

It is with great pleasure that Tetra Tech submits this Annual Report for fiscal year 2013, as provided in section C.5, "Deliverables," paragraph G of the above referenced contract. This report presents the activities for the period of October 1, 2012 through September 30, 2013.

We look forward to supporting the USAID OEGI mission during 2014 and strengthen our partnership to build a brighter future for Afghanistan.

Please contact me at your convenience should you have any questions or comments regarding this report.

Respectfully,
Tetra Tech, Inc.

[REDACTED]

[REDACTED]

Chief of Party (AESP)

AFGHANISTAN ENGINEERING SUPPORT PROGRAM

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Executive Summary

The 2013 Fiscal Year (FY) Annual Report summarizes the work completed, underway and pending for the Afghanistan Engineering Support Program (AESP), Task Order (TO) EDH-I-00-08-00027-00, Order No. 1. Tetra Tech (Tt) AESP provides planning, design, engineering and technical oversight support while contributing to local national capacity building, mentoring, and collaboration/coordination with the United States Agency for International Development (USAID) Afghanistan Office of Economic Growth and Infrastructure (OEGI).

Tt AESP performed activities that complements and reinforces the activities and engineering expertise of USAID OEGI staff in energy, transportation, vertical structures, and water and sanitation sectors. Tt AESP consists of a Kabul-based core of expatriate engineering professionals leading a competent staff of local Afghan engineers and support professionals, with home office, or “reachback”, support from a highly-qualified US-based staff.

Tt AESP submitted over 109 work order deliverables to USAID OEGI during FY 2013 which is approximately 27 deliverables a quarter. Deliverables submitted ranged from comprehensive technical reports, as-built drawing reviews; detailed site visit reports, design drawings, technical specifications, presentations, videos, and capacity building/collaborative events. The percentage of deliverables in three of the OEGI sectors plus the technical support and oversight service is shown in Figure 1.

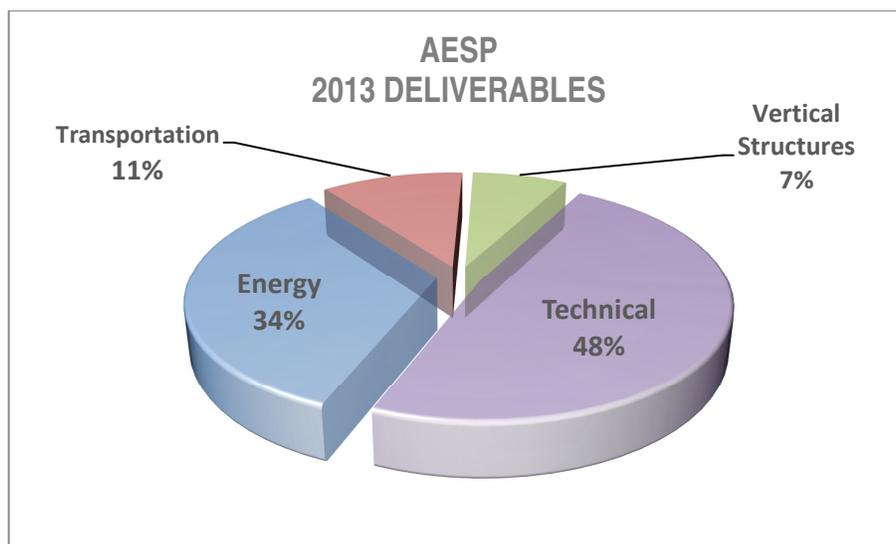


Figure 1: 2013 Deliverables Breakdown

Tt AESP performed tasks on seven administrative work orders and 22 active long-term work orders. Administrative work orders are defined as tasks requiring a total level of effort (LOE) of less than or equal to 18 business days (144 work hours). Long-term work orders are activities requiring a LOE in excess of 18 business days.

Highlights of the year within each sector and technical support and oversight services noted below exemplifies AESP’s diverse support of the USAID OEGI mission here in Afghanistan.



Energy Sector

Afghanistan Northeast Power System (NEPS) Protective Relay and Coordination studies (WOLT0059) involved working closely with the DABS relay department to conduct extensive field inspections and collect relay settings from the medium voltage electric power distribution system in Kabul. The final report and system modeling studies produced more than 2,000 proposed relay settings that when implemented will improve the selectivity of the NEPS high voltage and medium voltage systems. Additional work is in process to create a Field Installation Guide for ten feeders which when complete will provide DABS a resource for the proper installation and maintenance of power system components. The Guide will also serve as a model for the remaining 61 feeders in the Kabul.

Tt AESP finalized technical procurement documents for the public electric utility provider DABS proposed transmission line and substations between Arghandi to Ghazni (WOLT0048). Tt AESP assisted DABS with the Request for Proposals (RFP), provided technical assistance with Requests for Information (RFIs), generated bid tabulations and evaluation.

Tt AESP prepared design and construction drawings, and specifications, for the complete replacement of the defective fire suppression water piping system at the Tarakhil Thermal Power Plant (WOLT0070).

Technical Support and Oversight

Acting in the capacity of technical advisors, Tt AESP provided needed support to Da Afghanistan Breshna Sherkot (DABS) to improve eleven of the 12 conditions precedent (CP) required to initiate the disbursement of on budget funds from USAID (WOA0091 and WOA0092). Tt AESP worked closely with the DABS Senior Management Group (SMG) and the USAID Office of Financial Management to fulfill this request. The DABS SMG and the USAID Afghanistan Mission Director have since approved the eleven CPs.

Tt AESP organized project management training sanctioned by the Project Management Institute (PMI) for ten interested USAID staff on 10 October 2013, who have committed to completing Project Management Professional (PMP) certification. Two more training sessions are scheduled.

Tt AESP efforts to achieve a gender-equitable staffing mix resulted in the hiring of a female LN Electrical Engineer. In addition, a 2012 graduate of the AESP sponsored Afghan Woman Internship Program (WOLT0042) was selected to fill a vacant Civil Engineer-Junior position.

Transportation

Tt AESP provided guidance to Mashriq Engineering Construction Company (MECC) project scheduling efforts on the Gardez-Khost Road construction and teamed with USAID OEGI to mentor MECC staff using Primavera P6 scheduling software. A team-building event facilitated by Tt AESP brought USAID OEGI, MECC, and IRD together to find solutions to scheduling problems and implement project management improvements.

Vertical Structures



Tt AESP continued to provide construction administration services for the grading and installation of utility services at the Sadar Girls High School. Tt AESP assisted at meetings, reviewed drawings and submittals, conducted site observations, and provided technical responses to RFIs.

A contract modification issued in August for the remaining funds tranche increased the contract obligated funding to [REDACTED]. At the fourth quarter close, contract expenditures reached [REDACTED]. Based on a monthly burn rate of just under one million dollars, the funds will be exhausted in November 2014. The value of open long-term work orders during FY 2013 totaled [REDACTED].

In addition to work order related activities, Tt AESP provided capacity building opportunities for AESP LN staff, improved reporting to USAID OEGI contracting officer representative (COR) and performed security enhancements during this reporting period.

During the year, expatriate staff positions saw a reduction of 50% when more responsibility transferred to trained LN engineering and professional staff. As expat staff demobilized, LN staff received advanced promotions with increased personal responsibility. LN staffing increased by 10% with four LN electrical engineers to support the increased Energy sector workload.

As described above, Tt AESP has provided USAID OEGI with diverse engineering expertise and dynamic support throughout FY 2013. The versatility of the Tt AESP program is evident in the variety of deliverables submitted to USAID OEGI and the program's support for USAID goals and objectives. Tt AESP will remain flexible and mobile in FY 2014 to support work orders issued by USAID OEGI and continue the program's support for capacity building and gender equality in Afghanistan.

1.0 Work Orders

The Tt AESP contract provides engineering and technical support so that the OEGI can continue to provide the Mission with needed engineering expertise in transportation, vertical structures, energy and water and sanitation sectors. The Tt AESP contract provides OEGI access to a team of full-time and short-term engineers based outside the USAID OEGI compound in Kabul and within the contractor’s offices.

Tt AESP responsible for identifying, planning, designing and providing technical support and oversight of USAID OEGI infrastructure projects and related engineering activities, in accordance with the basic USAID OEGI Architect and Engineer (A&E) IQC contract statement of work creates a work order to track individual project. Work orders fall into one of two categories, administrative or long-term. Administrative work orders are defined as tasks requiring a total LOE less than or equal to 18 business days (144 work hours). Long-term work orders defined as activities requiring a total LOE exceeding 18 business days.

Tt AESP supports USAID OEGI’s mission throughout Afghanistan using both types of work orders. Figure 2, identifies the project locations that Tt AESP has done work in for USAID OEGI. For tracking purposes, work orders are broken into one of the following sectors: Energy, Vertical Structures, Transportation, Water and Sanitation as stated in the Tt AESP contract if the work requested falls outside the sectors above, it falls under technical services. Out of the five identified categories, the majority of Tt AESP work this year supported the energy sector and provided technical services across sectors.

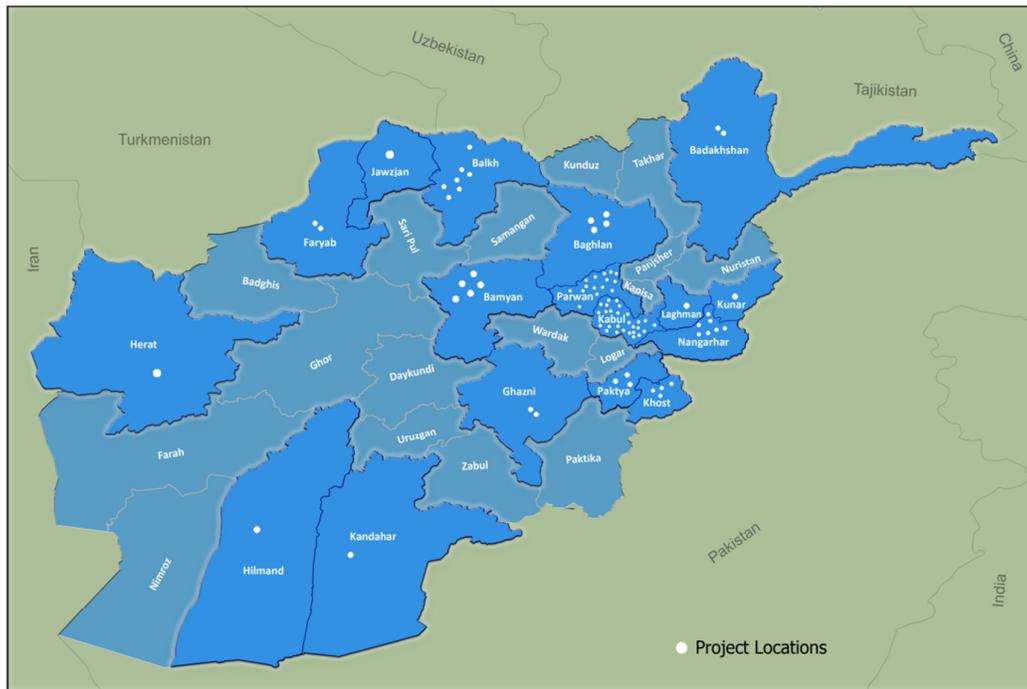


Figure 2: 2009-2013 Tt AESP Project Locations

1.1 Sector Activities

The following sections describe the activities performed in each sector during FY 2013 under this Task Order. A CD of Appendix B is provided which includes the deliverables for the administrative and long-term work orders that were active during this FY.

1.1.1 Energy

Energy sector work continued on a number of long-term work orders to meet the objectives outlined in the report on “Progress Toward Security and Stability in Afghanistan” (April 2010). The work products/studies will be the cornerstone to establish a reliable electrical transmission and generation system in Afghanistan. Existing long-term work orders are described as follows.

1.1.1.1 WO-LT-0048 - Transmission Line Engineering Study

USAID OEGI requested support for a proposed 220kV transmission line and substations from Dasht-e-Barchi to Kandahar, part of the transmission line generally known as Power Transmission Expansion and Connectivity (PTEC) program. In support of USAID OEGI efforts Tt AESP submitted an Engineering Study for 220kV Transmission Line from Dasht-E-Barchi to Kandahar East during the third quarter of 2012. Subsequent amendments have been proposed and approved to create a bid package for DABS to expand the connectivity of the NEPS program. Tt AESP was tasked to provide enough information for a competent design/build (DB) or engineer/procure/construct (EPC) firm to continue performing the design function and ultimately develop the details to be able to perform construction, and then perform the construction. This work order is currently open.

1.1.1.2 WO-LT-0048_AMD 3 - Technical Section and Bid Support

Notice to proceed (NTP) issued on April 22, 2013. This amendment tasked Tt AESP to deliver a technical section (Volume 2) for the proposed 220kV transmission line from Arghandi to Qarabagh, including the substations at Sayedabad, Ghazni City and Qarabagh. Volume 1 and 3 provided by DABS and combined with Volume 2 produced by Tt AESP to complete the Request for Proposal (RFP) package to the bidders. DABS released the RFP during the third quarter. The Tt AESP Energy team assisted DABS in responding to bidder’s technical questions concerning the RFP. Tt AESP completed an evaluation and tabulation for all submitted bids to support USAID OEGI in the selection of awardees. This work order is currently open.

1.1.1.3 WO-LT-0048_AMD 4 - Technical Section and Bid Support for 5 Substations

On September 24, 2012, USAID OEGI gave notice to proceed on Amendment 4 to provide the technical section (Volume 2) for a 220kV transmission line and substations from Qarabagh to Qalat. This was subsequently changed to just the development of the technical section for the proposed substation(s) from Ghazni City to Kandahar East. The work to be completed is similar to the support provided under Amendment 3. Tt AESP received notice to revise the SOW during the fourth quarter based on lessons learned from Amendment 3. Tt AESP will continue work on this amendment into FY 2014. This work order is pending with SOW revisions.

1.1.1.4 WOLT0048_AMD 5 - Technical Section and Bid Support for Transmission Line

USAID OEGI requested a SOW and ROM for the preparation of Volume 2 - technical specifications for the proposed transmission lines from Ghazni City to Kandahar East. This work order is pending with SOW and ROM in development.

1.1.1.5 WO-LT-0054 - Reactive Power Compensation for PK to Chimtala

Tt AESP completed a study using Power System Simulator for Engineering (PSS/E) and created a partial design package for the Reactive Power Compensation (RPC) for the Afghanistan NEPS that would permit the Pul-e-Khumri to Chimtala 220kV transmission line to carry the optimum amount of power approaching the conductor's thermal limit of approximately 450MW. The design package included installation of an additional 160MVA 220/110kV auto transformer at the Chimtala substation.

Also included in the study was the addition of RPC to points along the Dasht-e-Barchi to Kandahar East transmission line. Two reports were submitted to USAID OEGI as result of the study and creation of the design package.

This work order was open during the first part of Quarter One to allow ample time for comments and/or revisions to the final report submitted on September 16, 2012. Work order status is completed.

1.1.1.6 WO-LT-0055 - Darunta HPP Assessments

USAID OEGI requested Tt AESP to determine the best course of action for the long-term sustainable operation of at the Darunta Hydropower Plant (HPP) and its associated electrical transmission and distribution systems under this work order. After considerable review, the work order closed in early October 2012 due to security risks and priority realignment at USAID OEGI.

1.1.1.7 WO-LT-0059 - NEPS Protective Relay Coordination Studies

USAID OEGI requested that Tt AESP perform a relay coordination evaluation of the Afghanistan NEPS 220kV and 110kV electrical grid, as well as for the 20kV, 15kV and 10kV medium voltage (MV) systems. Scheduling and data gathering began during the first quarter, after USAID OEGI issued the Notice to Proceed.

The Tt AESP team, comprised of LN and expatriate technical staff in Kabul coordinated with



Figure 3: WO-LT-0059 Relay Data Gathering

DABS to acquire access to the specified relays for data to use in the modeling. The data collected in the field, transmitted to reachback (RB) for review and data gap identification. LN and expatriate staff to resolve data gaps provided additional field investigation and data collection. RB incorporated final data into the transmission system model. The data gathered for primary substation equipment, high voltage transmission line, protective relay

settings database files and 71 priority and 38 non-priority feeders for the metro-Kabul primary substation. Reports generated monthly reported site visit findings, work order progress and issues.

During the data gathering (Figure 3), Tt AESP provided capacity-building sessions with DABS' site managers to identify relay communication software for the relays and demonstrated on how to capture relay data.

The final report, due October 2103, will make recommendations to improve selectivity including the approach, data collection, protective relaying coordination criteria, calculations, time-current curves, and protective relay settings recommendations. This work order is currently open.

1.1.1.8 WO-LT-0059_AMD 1 NEPS Field Installation Guide Development

During the third quarter, this work order came online because of the investigation and analyses completed under WO-LT-0059 Relay Coordination Study. Deficiencies in the MV system were identified, resulting from a lack of materials including MV distribution fuses and fuse links. This amendment addressed the deficiencies by providing technical services, specifying materials and support procurement, training for installation of the materials, and guidance relating to proper installation and maintenance of the specified materials.

The field installation guide will include a general arrangement/single line drawing identifying the location of the protective equipment to be installed. It will illustrate the general arrangement of fuses, cutouts, and supports to be installed on existing Kabul area MV distribution poles. The work order will remain open into 2014, to continue creating the field installation guides for 10 of the 71 MV

1.1.1.9 WO-LT-0063 Salang Tunnel Substation

This work order received NTP late 2012, USAID OEGI requested Tt AESP to recommend a location, design and create technical documents for a new 220/20kV substation located south of the Salang Tunnel in Baghlan Province (Figure 4). The technical documents are to contain sufficient detail for an Engineering, Procurement and Construction (EPC) firm to continue the design and installation of the work. It is our understanding that USAID OEGI will deliver the technical documents to DABS. DABS will then solicit bids for the work and select an EPC contractor.



Figure 4: WO-LT-0063 Salang Tunnel Substation Site

Majority of the work done during the reporting period focused on the site and substation orientation. Tt AESP coordinated meetings and communications with the shareholders on the



project. Challenges with site layout, short construction season, long lead items, and land ownership were examined carefully.

It was suggested by DABS through USAID OEGI to design the substation with double tap, double bus and double transformer. Primary general arrangement and superimposed drawings were submitted to USAID OEGI. Contract preparation and bidding assistance services will be performed once site layout and redesign is approved by USAID OEGI. This work order is currently open.

1.1.1.10 WO-LT-0063_AMD 3 Substation Technical Sections

Work will begin on the technical documents once site and substation orientation is approved by shareholders. Technical sections will contain sufficient detail for an EPC firm to continue the design and installation of the work. As stated above, our understanding that USAID OEGI will deliver the technical documents to DABS. DABS will then solicit bids for the work and select an EPC contractor. This work order is open.

1.1.1.11 WO-LT-0063_AMD 4 Substation Pre-Purchase Equipment

To meet an accelerated Salang Tunnel substation construction schedule, Tt AESP was asked to develop performance specifications for long lead high voltage (HV) substation equipment, MV equipment and relay/control equipment. Technical services supporting the development of specifications for procurement of substation equipment including transformers, breakers, instrumentation, and relay and control panels was written into the scope. In addition, Tt AESP is providing technical support to resolve bidder questions, specification clarifications as vendor proposals are developed, and technical review of supplier proposals to verify conformance of the proposed items to the prepared performance specifications. This work order is open.

1.1.1.12 WO-LT-0063_AMD 5 Topographic Land Survey and Geotechnical Investigation

The objective of this SOW is to obtain survey and geotechnical information necessary for the development of detailed designs for the proposed new substation. This work order is pending.

1.1.1.13 WO-LT-0063_AMD 6 Detailed Design

Tt AESP was requested to develop a detail design package for the proposed substation at Salang Tunnel. Preliminary and detail design for site civil, 220kV transmission line taps, 220-20kV substation, control building with living quarters, and bidding assistance will be completed as part of this amendment. At the time of this report, the status is pending.

1.1.1.14 WO-LT-0064 Hisarshahi Industrial Park (HIP) Substation Technical Sections

Tt ASEP, as requested by USAID OEGI, opened this work order to prepare Volume 2 - technical sections for the Ghawchak to Rodat District substations. Tt AESP evaluated sites and reported back to USAID OEGI recommended site location for the substation. This work order will remain open into 2014.

1.1.1.15 WO-LT-0068 Nangarhar Hydro Load & System Studies

Determining the best course of action for the long-term sustainable operation of the Darunta Hydropower Plant (HPP) and its associated electrical transmission and distribution systems was the intent of this work order. After considerable review, the work order closed in early October 2012 due to security risks and priority realignment at USAID OEGI.

1.1.1.16 WO-LT-0070 Tarakhil Power Plant

The objective of this work order is to support USAID OEGI's efforts in replacing the exterior water line that supplies the fire suppression system at the Tarakhil Power Plant. Notice to proceed was issued on June 2, 2013 for Tt AESP to prepare the design drawings, specifications, an engineering estimate of cost, and construction bidding assistance for the replacement of the fire water system at Tarakhil Power Plant.



Figure 5: WO-LT-0072 Tarakhil Power Plant Hydrant

Notice to proceed was issued on June 2, 2013 for Tt AESP to prepare the design drawings, specifications, an engineering estimate of cost, and construction bidding assistance for the replacement of the fire water system at Tarakhil Power Plant.

Many site visits were performed to collect data on the functionality (Figure 5) of the existing system to determine the whether reuse of the materials was possible. A survey team was also procured to provide as-built drawings to be used in the design phase of the project.

Following this initial data collection, it was decided to completely replace all components of the system up to the building connections using C900 PVC pipe, mechanical joint fittings and joint restraints to ensure no future leakage of the system. All gate valves and fire hydrants will be replaced as well.

On 21 September 2013, NTP was issued for Amendment 1 for the Tarakhil Power Plant Water Piping System to include improvements to the water pump supply line, a design for heat tracing and well pump controls, and bidding assistance for DABS to procure materials from the US.

The final design for all drawings, specifications, and estimates of cost has been provided to USAID OEGI. Procurement assistance for DABS to acquire the contractor and materials is ongoing. This work order is currently open.

1.1.1.17 WO-LT-0070_AMD 1 Fire Fighting Capacity Study

USAID OEGI requested the Tt AESP conduct a firefighting capacity study at the Tarakhil Power Plant. A SOW and ROM under development for the firefighting capacity study. At the time of this report, the work order status is pending.

1.1.1.18 WO-LT-0072 NEPS Improvements Power System Analysis

USAID OEGI requested Tt AESP to draft a scope of work to identify, analyze, and document the impacts of ongoing, planned, and potential projects in the NEPS over time through 2032.

Included is support to achieve the goals of the Draft Terms of Reference (ToR) dated June 24, 2013 regarding evaluation of CASA-1000 options.

The work will focus heavily on the impacts of potential new import sources and generation, specifically the Turkmenistan-Arghandi 500 kV AC line, Sheberghan 200 MW thermal power plant, and CASA-1000 500 kV HVDC project. The impacts of projects or combinations for projects to be analyzed include technical capacity, reliability, phasing and sequence of projects, cost effectiveness and electrical efficiency, and seasonal effects. Included in the analysis is the expected new load, in-country generation, and power import/export and their impact on current grid operations and future grid development. In addition, the CASA-1000 HVDC project and its interaction with the proposed transmission development in the Power Sector Master Plan will be investigated in the initial phase of the study. At the time of this report, the work order status is pending.

1.1.1.19 WO-LT-0076 Bagram Basin Electrical Load Study and Master Plan

At the time of this report, a draft scope of work submitted to USAID OEGI to create a technical service report is under review. This report is to assemble information about the existing and future electrical needs in the study area from the involved stakeholders. The study includes the area north of the City of Kabul in Kabul, Parwan, and Kapisa provinces. This area is anticipated to be, over the next two decades, a fast growing economic corridor. Kabul New City (KNC) is the largest planned development in this area. KNC is planned to be 1.5 times larger than the existing City of Kabul. The towns of Charikar, Jabal-Saraj, Golbarhar, Bagram, and Mahmud-Raki will also be included in the study area. At the time of this report, the work order status is pending.

1.1.2 Vertical Structures

A summary of work performed during the fiscal year by the Vertical Structures group included providing technical support, document reviews, project meeting attendance, and design input on several major vertical structures engineering projects to USAID OEGI/OEGI. The projects are briefly described below.

1.1.2.1 WO-LT-0006_AMD 5 Construction Administrative Services

During the year, Tt AESP performed construction administration services during the construction phase of the Sardar Girls Kabuli High School (SGKHS) Site Layout, Grading, and Utilities Contract. Tt AESP LN engineers reviewed shop drawings, responded to requests for information, and attended weekly constructions. During the last quarter, Tt AESP LN engineers were on site to observe the completion of the water tank tower (Figure 6), punch list and closeout activities. This work order is open.



Figure 6: WO-LT-0006 SGKHS Water Tank Tower



1.1.2.2 WO-LT-0006_AMD 8 O&M Manuals and Record Drawing Preparation

The objective of this amendment is to develop manuals for the operation and maintenance of the water system, sanitary system, electrical system and site storm water management system, and as-built record drawings at SGKHS. This work order is pending.

1.1.2.3 WO-LT-0009 PRT Field Support

Originally, Tt AESP was tasked to provide technical support to the Provisional Reconstruction Teams (PRTs) assisting in identifying projects and preparing reports from which the PRTs could apply for funding. This work order has evolved to include design support and field observations of completed projects. The work order has been amended with each project request. Projects include disciplines of vertical structures, water and wastewater, water resources, transportation, and energy. This work order is open.

1.1.2.4 WO-LT-0009_AMD 2 Bamyan Dam Sites Pre-Feasibility Studies

Tt AESP completed a conceptual design for the implementation of a low-load diversion dam in the Kalu Valley, Bamyan Province in early 2012. Work order remained open through 2013 in anticipation of additional work. The work order was completed in quarter three.

1.1.2.5 WO-LT-0009_AMD 5 Regional Command North Project Evaluations

The objective of this amendment is to provide project evaluation services for various Regional Command (RC) North projects scattered throughout northern Afghanistan. The project evaluation services include, but are not limited to, review of specific project documentation (drawings, specifications, etc.), onsite observation of visible completed works, preparation of documentation to verify the completed works including a site observations report, photographs and any other information deemed necessary to make a complete and thorough observation and documentation of the completed works. This work order is pending.

1.1.2.6 WO-LT-0009_AMD 6 Regional Command East Project Evaluations

The objective of this amendment is to provide project evaluation services for various RC East projects scattered throughout eastern Afghanistan. The project evaluation services include, but are not limited to, review of specific project documentation (drawings, specifications, etc.), onsite observation of visible completed works, preparation of documentation to verify the completed works including a site observations report, photographs and any other information deemed necessary to make a complete and thorough observation and documentation of the completed works. This work order is pending.

1.1.2.7 WO-LT-0052 Annual O&M Budgets

Tt AESP created draft operations and maintenance (O&M) cost budgets for twelve Construction of Health and Education Facilities (CHEF) program sites, six Facilities of Higher Education (FoHE), SGKHS, Ghazi Boys High School and Kabul University. The final report submitted to USAID OEGI in September 2012 included cost budgets. A final report presented to interested parties at USAID OEGI about the budgets and the methodology took place during the month of October 2012. This work order was completed in quarter one.



1.1.3 Transportation

A summary of work performed during the FY 2013 by the Transportation group includes providing quality assurance (QA) services, document reviews, project meeting attendance, and ministry capacity building on several transportation projects to USAID OEGI, and is briefly described in the following section.

1.1.3.1 WO-LT-0029 Maimana and Faizabad Airport Third Party QA

In FY 2013, Tt AESP transportation engineers made many trips to Maimana and Faizabad airports. The site visits consisted of gathering data to verify project progress, project quality and delays. During the visits, the team made a general review of the progress of the airport and held meetings with local officials, contractors and airport staff. Reports were prepared summarizing the findings of the site visits and the ongoing QA efforts.

Tt AESP personnel also attended meetings with Ministry of Transportation and Civil Aviation (MoTCA), USAID OEGI, Federal Aviation Administration (FAA) and contractor representatives to review airports progress, delays and problems. Summary meeting minutes of each meeting were prepared and submitted to USAID OEGI. Tt AESP reviewed construction schedules, quality control plans, drainage design data, and material submittals for compliance with the specifications. This work order was completed in quarter one.

1.1.3.2 WO-LT-0041 MoTCA Regional Airport Support

Tt AESP reviewed draft versions of ten monthly progress reports prepared by MoTCA for Faizabad and Maimana regional airports. Subsequent to review, Tt AESP met with MoTCA to discuss comments and revised reports to meet the reporting requirements of Implementation Letter (IL) No. 17. Tt AESP attended multiple meetings with MoTCA representatives, both at MoTCA and at the Tt AESP villa, to facilitate preparation of progress reports for submission to USAID OEGI. To complete the work order, final reports on both airports were submitted to USAID OEGI in early October. This work order was completed in quarter one.

1.1.3.3 WO-LT-0067 Gardez Khost Value Engineering

In late November 2012, Tt AESP was requested to provide value engineering (VE) services for the Gardez Khost (GK) Road construction. Various engineering services were provided during the year from creating a plan to utilize existing precast concrete materials into the remaining road construction to hosting an off-site workshop for implementing partners to define shared goals and develop a unified approach among construction management, general contracting and QA.

In February 2013, a successful workshop took place at the Tt AESP villa. Mashriq Engineering Construction Company (MECC), IRD, and USAID OEGI spent a day discussing ways of opening lines of communications, recognizing challenges that each individual partner faces, and identifying solutions to mitigate scheduling and reporting issues.

Tt AESP continued to support USAID OEGI's efforts for the remainder of the year, through mentoring and capacity building of MECC. Tt AESP's engineers worked with MECC to baseline and implement their construction schedule and develop timely reports. Weekly

meeting with USAID OEGI, MECC, and IRD were attended by Tt AESP engineers to further support construction efforts.

It is anticipated Tt AESP will continue to provide VE for the GK Road Section 3 construction, schedule to be completed sometime mid November 2013. This work order is open.

1.1.3.4 WO-LT-0074 Annual Road Operations and Maintenance Cost Budgets

During the fourth quarter, Tt AESP was tasked with evaluating and recommending improvements to existing O&M budgets for USAID OEGI on completed road construction within two roadway programs that are, or will become, the property of the Government of the Islamic Republic of Afghanistan (GIROA).

Tt AESP reviewed and recommended improvements of O&M budgets for the following roads:

- Strategic Provincial Roads –Southeast Afghanistan (SPRSEA) Roads # 2, 4, 5, 6, 7, 8, 10, 11, 14, 15, 18, 20, 27 and 34.
- GK Road Sections 1, 2 and 3.

Resources utilized as part of the investigation into maintenance costs included design documents from the Strategic Provincial Roads (SPR) Program and GK Road, construction inspection reports, and discussions with the Ministry of Public Works. Also reviewed was the “Master Plan Road Improvement Project, Road Sector Master Plan” prepared by the Asian Development Bank (ADB) and Sheladia Associates Inc. dated April 2006. A draft report evaluating and recommending O&M budget estimates for each facility for GIROA’s planning purposes was submitted to USAID OEGI for comments. This work order is open.



Figure 7: WO-LT-0074 Strategic Provincial Road

1.1.3.5 WO-LT-0077 Gardez Khost Bridge #9

Due to recent flood damage on GK Road, Bridge #9 has been severely damaged and un-repairable. Tt AESP has been requested to provide engineering, procurement assistance, construction planning and scheduling assistance for Bridge #9. This work order is pending.

1.1.4 Technical Support and Oversight

A summary of work performed during the FY 2013 categorized as Technical Support and Oversight, demonstrates the versatility and qualified expatriates, local national and Reachback support to special requests as assigned by USAID OEGI to meet the Missions goal. The work provided is described below.

1.1.4.1 WO-LT-LT-0033 Claims Assistance

Tt AESP provided OAA office claims assistance throughout the year. Thirty-three claim settlements were examined, assessed and recommendations provided in individual reports under this work order to USAID OEGI. This work order was completed in quarter four.

1.1.4.2 WO-LT-0042 Afghan Women Internship Program

The four female Civil Engineering students from Kabul University completed their 2012 Tt AESP internship program at the beginning of January. Four new candidates were selected for the 2013 internship period, three from Kabul University and one from the Polytechnic University. Their respective educational backgrounds and experiences include structural engineering and construction, civil engineering, water resources engineering, and architectural engineering.

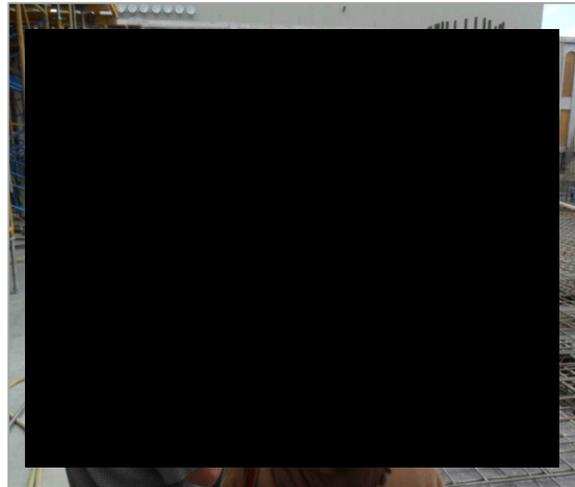


Figure 8: WO-LT-0042 Interns site visit at the US Embassy

The interns spent the early part of the year becoming familiar with each of the Tt AESP departments, including transportation, water resources, electrical engineering, and each department's respective projects. The goal of this in-depth introduction was for each intern to identify potential mentors in each of their respective fields of engineering. Since, each intern has been identified to support more specific projects in the civil and electrical areas, including one intern identified for AutoCAD support.

All interns have also undergone a series of internal trainings. These include introductory or intermediate AutoCAD Civil 3D, ArcGIS, technical writing, document control, concrete mix design, asphalt, and soils. The latter three were taught in multiple parts, including a lecture, an activity with materials, a lab visit, and sometimes a site visit. Each of the interns was asked to do calculations and apply those calculations to the "field" activity and lab visit.

The interns also participated in seven shadowing events (Figure 2) at USAID OEGI with infrastructure, water resources, and site engineers. Three of these were dedicated to visiting the ongoing construction and the other four were dedicated to meeting with engineers to discuss USAID OEGI projects, fields of engineering of interest to the interns, and future careers. This work order is currently open.

1.1.4.3 WO-LT-0065 Media Assistance

In FY 2013 Tt AESP supported the OEGI and the Development Outreach and Communications Office (DOC) on media projects as requested to feature completed and ongoing USAID OEGI infrastructure projects in Afghanistan. During this period three videos were produced highlighting the work completed at SKGHS, the importance of the needed improvements to Salang Tunnel, and GK Road. Training videos and capturing capacity building events are in development. This work order is open.

1.1.4.4 WO-LT-0066 Training and Support

In FY 2013 NTP was issued on this work order during the first quarter. The work order objective was to introduce USAID OEGI staff to the Project Management Body of Knowledge and to prepare thirty-five staff members for Project Management Institute professional (PMI) certification exams, and support USAID OEGI's efforts in building project management capabilities and leadership skills of their Foreign Services Nationals in preparation of the "Transformational Decade" (2014-2024) in Afghanistan.

As the year progressed, efforts were focused on scheduling training sessions, identifying and vetting a certified trainer for the Project Management Professional (PMP) and Certified Associate in Project Management (CAPM) certifications. Scheduling training sessions followed, after vetting was completed through USAID OEGI. The three training scheduled for October and November 2014, will provide participants critical knowledge/skills in project management which will help OEGI teams to better manage project costs, schedules and quality.

A scope change was approved during July 2013 to provide additional support services. Two additional tasks, the cost of non-member application and exam fees for each participant sitting for either the CAPM or PMP certification exam at a local testing site were added. This work order is open.

1.2 Administrative Work Orders

Administrative work orders are short term, less than 144 man hours. See Table 1 for summary of work completed under the administrative work order classification.

Table 1: FY13 Administrative Work Order Summary

Number	Work Order Title	Summary of Work Completed FY2013
WO-A-0087	Salang Tunnel Presentation Feasibility Study Support	Tt AESP provided administrative and technical review of the presentation for USAID OEGI.
WO-A-0088	Regak Bridge QA	Tt AESP supported a warranty inspection of the Regak Bridge. Memo of findings created for USAID OEGI.
WO-A-0089	Salang Tunnel Substation Presentation	Tt AESP created a presentation for the Salang Tunnel Substation for USAID OEGI. Work is ongoing.
WO-A-0090	Tarakhil Fire Suppression Component Analysis	Tt AESP prepared a short evaluation narrative with short and long-term recommendations for fire-suppression
WO-A-0091	DABS Technical Assistance	Tt AESP acted as advisors and assisted DABs directly strengthening existing draft (8) Condition Precedents.
WO-A-0092	DABS Assistance - Task 2	Tt AESP provided examples of relevant international industry standard plans/business practices. Work
WO-A-0093	Technical Assistance to US Embassy PP	Tt AESP assisted US Embassy with needed trip adjustments to their power plant circuit breaker

1.3 Progress

The FY 2013 work order activity under this Task Order included work on seven administrative work orders and 22 long-term work orders for a total of 29.

Prepared for:



Prepared By:

Tetra Tech, Inc.

Afghanistan Engineering Support Program

The following is the breakdown of the number of work orders by sector:

- Energy: 10 Long-term Work Orders
- Transportation: 5 Long-term Work Orders
- Vertical Structures: 3 Long-term Work Orders
- Technical Support Services: 7 Administrative Work Orders, 4 Long-term Work Orders

The value of long-term work orders during FY 2013 was [REDACTED]. A complete listing of all the work orders issued under this Task Order from inception to current date can be found on the Work Order Status Table included in Appendix A.

2.0 Contract/Task Order

2.1 Contract/Task Order Activities

The following Contract/Task Order modifications were approved and implemented during the year.

On 24 February 2013, USAID OEGI issued a modification, MOD 18, which identified a change to one of the four key positions critical to the work performed under the task order, Chief of Party, Senior Transportation Sector Lead, Senior Energy Sector Lead and Senior Engineer Water Sector Lead. Through this modification, USAID OEGI approved the replacement incumbent for the Senior Energy Sector Lead.

On 15 May 2013, USAID OEGI issued MOD 19. The purpose of this modification was to make and reflect a Key Personnel change on the Task Order. Through this modification, USAID OEGI approved the replacement incumbents for the Chief of Party and Senior Energy Sector Lead.

On 14 August 2013, USAID OEGI issued MOD 20. The modification made the following changes to the task order:

- Incrementally funded the task order by [REDACTED], thereby increasing the total obligated amount to [REDACTED] to fully fund the Task Order;
- Realign the budget, Labor Categories and Work Days Order (Level of Effort) of the Task Order. The Total Level of Effort ordered and Total Estimated Cost of the Task Order remain unchanged and in full force; and
- Updated section H.1 “KEY PERSONNEL” of the task order, to reflect the Key Personnel changes. Through this modification, USAID OEGI approved the replacement incumbent for the Senior Energy Sector Lead.

2.2 Contract /Task Order Deliverables

The following deliverables were submitted to USAID OEGI during the time of this report time, as detailed in Tt AESP contract.

- First Quarter Progress Report – January 10, 2013
- Second Quarter Progress Report – April 10, 2013
- Third Quarter Progress Report – April 10, 2013
- Annual Work Plan Year 5 – August 2, 2013

An electronic copy of the above referenced deliverables in CD format is Appendix B.

2.3 Contract/Task Order Summary

Tt AESP, as directed by the USAID OEGI Contracting Officer Representative (COR) performed the following duties and reporting responsibilities during FY2013:



2.3.1 Capacity Building

Tt AESP work order tasks have created opportunities for the LN staff to refine their technical skills in the areas of O&M calculations, site evaluations and assessments, and QA techniques. The shift of expatriate leadership to a supportive role was evident throughout the reporting period. The effort to build up the capacity of our LN staff will continue throughout Year Five.

Tt AESP during the year provided capacity building opportunities for LN engineering staff. Staff attended construction quality management and Primavera training offered through Champion Technical Training Center (CTTC) in Kabul.

Tt AESP continued efforts to build a team to support USAID OEGI's mission in Afghanistan. Team building training was conducted for the management team and entire Tt AESP staff to develop a cohesive team environment and to motivate and further personal development during the third quarter. LN Deputy Chief of Party continued to grow as additional business responsibilities were transferred. The LN Technical Support Manager (TSM) responsibilities broaden to include the coordination of LN training programs, work order scheduling and resources allocation, and serves as the point of contact with the new Afghan Public Protective Force (APPF) contract. LN Senior Administrative Assistant was trained to support and fill in as MIS Manager when expatriate counterpart is on leave. A LN Mid-level Electrical Engineer was promoted to Senior-Level Electrical Engineer to oversee the extensive data gather and site visits (WO-LT-0059). Continued efforts in the development of management skills for LN managers and technical skills for LN professionals will continue into the fifth year.

2.3.2 Security Issues

Security concerns continue to influence work under this Task Order. President Karzai's Decree 62, which disbands Private Security Companies, impacted the method in which work orders were accomplished due to expatriate engineers travel restrictions. A considerable amount of site data gathering was accomplished by our experienced and trained LN engineering staff. Coordinating with our security team, briefings and establishment of site visit safety procedures prepared the LN engineers for site visits. When security conditions were completely deteriorated, Tt AESP employed other means to gather data from alternative sources from within the Ministries or other entities.

Throughout the year, security upgrades were performed to augment the security measures already in place. Three additional armored vehicles from closing USAID OEGI projects were acquired, increasing the fleet to five. Compound improvements, such as installation of additional concertina wire on the building's lower levels, entry doors fitted with electronic fingerprint reader locks, and compound refueling and sewage removal systems installed to limit vehicle access were tested and completed. Safety and security reviews continued throughout the year.

2.3.3 Reporting

Throughout the year, the Tt AESP technical leads communicate with USAID OEGI's Point of Contact on related work orders, status of tasks, anticipated deliverable dates and client changes. To supplement current reporting tools, addition reporting means were implemented. A Work Order Task Calendar detailing each task under its respective work order was created to provide a snapshot of progress and delivery dates. Weekly Tt AESP meetings minutes were taken at meetings this year to summarize and document discussion and decisions that occurred. Meeting minutes are circulated to attendees and interested parties.

Prepared for:



Prepared By:

Tetra Tech, Inc.

Afghanistan Engineering Support Program

As required by USAID OEGI, each quarter project performance data is uploaded to the Afghan Info site (USAIDinfo.gov). The Afghan Info information system is used to collect performance information on projects and reports for stakeholder viewing (e.g. USAID OEGI management and outside parties like Congress). Additional reporting options have been implemented in FY 2013. During the second quarter, a Mission Performance Monitoring Plan Indicator was identified and initiated for Tt AESP on the site for reporting purposes – “6.2.2b. Number of people trained in transport management fields.” The work performed for GK Road Value Engineering (WO-LT-0067) was collected and reported for the last two quarters of this fiscal year.



3.0 Financial

FY 2013 contract modification activity fully funded the Task Order thru November 2014 with an additional [REDACTED] MOD 20 approved during August 2013, increased the obligated amount to [REDACTED]

3.1 Expenditures and Average Burn Rate

FY 2013 expenditures and average burn rate is detailed in Table 2.

Table 2: Tt AESP Expenditures and Burn Rate

2013 Tt AESP Expenditures and Burn Rate		
Tt AESP FY2012 Invoices Total:		[REDACTED]
October 2012	[REDACTED]	
November 2012	[REDACTED]	
December 2012	[REDACTED]	
Subtotal Q1 Expenditures		[REDACTED]
January 2013	[REDACTED]	
February 2013	[REDACTED]	
March 2013	[REDACTED]	
Subtotal Q2 Expenditures		[REDACTED]
April 2013	[REDACTED]	
May 2013	[REDACTED]	
June 2013	[REDACTED]	
Subtotal Q3 Expenditures		[REDACTED]
July 2013	[REDACTED]	
August 2013	[REDACTED]	
September 2013	[REDACTED]	
Subtotal Q4 Expenditures		[REDACTED]
FY2013 Cumulative Expenditures through September 30, 2013		[REDACTED]
Total Cumulative Expenditures through September 30, 2013		[REDACTED]
Current Estimated Average Burn Rate per Month:	[REDACTED]	

3.2 Obligated Funds

Based on the current billing and projected burn rate, the [REDACTED] in Obligated Funding will be exhausted is targeted in November 2014.

4.0 Program Staffing

During the year, expatriate staff positions saw a reduction of 50%, as more and more responsibility was transferred to trained LN engineering and professional staff. As expatriates staff demobilized, LN staff received advanced promotions with increased individual responsibility. LN staff was increased by 15%, as four electrical engineers were hired to support the increased workload in the Energy sector.

4.1 Expatriate Staffing Summary

FY13 started the year with 18 expatriates and finished out with eight. Search efforts continued during the fourth quarter to fill the Senior Energy Specialist position vacated during the third quarter. Table 3 Expatriate Staffing details the staffing activity through the year.

Table 3: Expatriate Staffing

Position	Project Departure
Administrative Manager	N/A
Chief of Party	N/A
Communications Specialist	2/21/2013
Contracts/Procurement Manager	N/A
Contracts/Procurement Manager-STTA*	1/25/2013
Deputy Chief of Party	9/20/2013
Energy Lead	N/A
Energy Lead (STTA)	7/7/2013
Energy Lead (STTA)	2/20/2013
Energy Lead(STTA)	5/28/2013
Finance Manager	N/A
Jr. Civil Engineer	N/A
Jr. Civil Engineer	N/A
MIS Manager	N/A
Sr. Energy Specialist	Open
Sr. Energy Specialist (STTA)	9/21/2013
Sr. Project Manager	5/24/2013
Sr. Quality Assurance Inspector/Sr. Construction Mgr.	8/16/2013
Technical Services Manager	N/A
Vertical Structures Electrical Engineer(5)	4/10/2013
Water/Sanitation Lead	6/7/2013

* Short Term Technical Assignment

4.2 Expatriate Staffing Changes

Tt ASEP focuses on enlisting competent expatriate staff to carry out tasks as assigned by USAID OEGI. The following expatriate changes occurred during the reporting period.



4.2.1 First Quarter

The Contracts and Procurement Manager left the program in late December. A search for a qualified candidate was conducted during the quarter.

4.2.2 Second Quarter

During the month of January, two expatriates demobilized the Senior Energy Specialist, and the Administrative Manager. A search for qualified candidates was conducted during the quarter. The Contract and Procurement Manager, STTA, in Kabul providing support was approved and reclassified for the long-term technical assignment (LTTA) vacant in late December 2012. Energy Lead, STTA, came over on a short-term assignment to fill in as the Energy Lead while Energy Lead, LTTA was on leave. The Communication Specialist demobilized in February. Two talented LN staff members filled the role of handling the communication component of the program. Energy Lead handed over his responsibilities to his replacement during the month of March.

4.2.3 Third Quarter

During the third quarter, Tt AESP continued to transfer more and more responsibilities to the LN staff. In preparation for FY 2014, as certain defined positions demobilize and were not filled, responsibilities were migrated to qualified LNs. Three such positions were vacated this quarter: Vertical Structure Electrical Engineer, Senior Project Manager and Water/Sanitation Lead. The Vertical Structure Electrical Engineer left the project on April 10, 2013. The Senior Project Manager demobilized from the project May 24, 2013. The Water/Sanitation Lead, returned to the states on June 7, 2013. The Energy Lead, LTTA, unexpectedly left the project during the quarter. An Energy Lead, STTA, mobilized and filled the position until a qualified candidate was identified and in place. The search to fill the Senior Energy Specialists continued into the third quarter, a previous employee temporarily filled the position until another candidate could be identified and hired. The current Chief of Party demobilized, his replacement mobilized to the project in June.

4.2.4 Fourth Quarter

During the fourth quarter, Tt AESP demobilization of expatriates continued, most notable was the Deputy Chief of Party departure in September. Senior Energy Specialist and Senior Quality Assurance Inspector and Construction Manager demobilized. An experience Energy Lead mobilized in early July to Kabul.

4.3 Local National Staffing Changes

The Afghan Woman Internship Program (WO-LT-0042) successfully added four female engineering students to support our engineering efforts during the second quarter. The interns, scheduled to graduate in December 2013, work two to three afternoons a week.

Due to the increased work order load in the Energy sector, three additional LN electrical engineers were brought on board. One LN electrical engineer awarded a Fulbright Scholarship left the program during the third quarter. His vacant position was filled with a female LN electrical engineer.

One full-time service staff was hired to support and fill in as needed for the full time cleaning, laundry, and kitchen staff.

4.4 Local National Staffing

FY13 started the year with 42 LN staff and finished out with 43 LN staff. Table 4 Local National Staffing details the staffing changes that took place during this reporting period.

Table 4: Local National Staffing

Position	Project Departure
Accountant	N/A
Administrative Assistant	N/A
Architect	N/A
Buyer	N/A
Civil Engineer – Junior Level (2)	N/A
Civil Engineer – Mid Level	N/A
Cleaner-Grounds (2)	N/A
Cleaner-Household (2)	N/A
Cleaner-Household	6/15/2013
Contracts Assistant/Buyer	N/A
Cook(s) x 2	N/A
Cost Estimator – Senior	N/A
Deputy Chief of Party	N/A
Electrical Engineer-Junior (3)	N/A
Electrical Engineer-Junior	7/7/2013
Electrical Engineer-Mid	N/A
Electrical Engineer-Project	N/A
Electrical Engineer-Senior	N/A
Facilities Maintenance Technician	N/A
Facilities Manager	N/A
Female Searcher	N/A
Government Liaison	N/A
Government Liaison Assistant	N/A
Human Resources Manager	N/A
Interns x 4	N/A
Internal Auditor	N/A
IT Assistant	N/A
IT Manager	N/A
Kitchen Helper (2)	N/A
Laundry (2)	N/A
Management of Information Assistant	N/A
QA Monitor/USACC (2)	N/A
QA Monitor/USACC	9/30/2013
Structural Engineer – Junior Level	9/30/2013
Technical Writer/GIS	N/A

Appendices

Appendix A

Work Order Status

COMPLETED WORK ORDERS
 Afghanistan Engineering Support Program
 IQC: Task Order 01 - EDH-I-00-08-00027-00
 USAID Technical Office: USAID/Office of Economic Growth and Infrastructure (OEGI)
 Reporting Thru November 02, 2013

Energy
 Water Resources
 Vertical Structures
 Transportation
 Water and Sanitation
 Multi-Disciplinary
 USAID Technical Support
 Pending Work Orders

Program Type ⁽³⁾	Work Order Number	Description	Status ⁽⁴⁾	Estimated Cost (ROM)	In Country Cost to Date ⁽⁶⁾	Reach Back Cost to Date ⁽⁶⁾	Total Cost to Date ⁽⁶⁾
VS, E, & W/S	WO-A-0002	Review of AUAF Master Plan Infrastructure	Complete	NA	█	█	█
W/S	WO-A-0001	Review Kabul Water Study	Complete	NA	█	█	█
VS, E, & W/S	WO-A-0002A	AUAF Master Plan Rev & SOW/ROM	Complete	NA	█	█	█
E	WO-A-0004	GBHS Electrical	Complete	NA	█	█	█
E	WO-A-0007	Sardar GHS Electrical	Complete	NA	█	█	█
W/S	WO-A-0003	GBHS Sanitation	Complete	NA	█	█	█
W/S	WO-A-0005	GBHS Water Supply	Complete	NA	█	█	█
W/S	WO-A-0006	Sardar GHS Sanitation	Complete	NA	█	█	█
W/S	WO-A-0008	Sardar GHS Water Supply	Complete	NA	█	█	█
TS	WO-A-0014	Construction Equipment Costs	Complete	NA	█	█	█
TS	WO-A-0012	Position Advertisements	Complete	NA	█	█	█
E	WO-A-0013	Third Party MEP Review of IOM 20 Bed Hospital	Complete	NA	█	█	█
W/S	WO-A-0001A	Review of Kabul Water MTP-1 Bid Docs	Complete	NA	█	█	█
TS	WO-A-0010	Review of BS-25 Draft Position	Complete	NA	█	█	█
VS	WO-A-0022	50 Bed Wmn Hosp Drawing Review	Complete	NA	█	█	█
E	WO-A-0020	SEPS Additional Work	Complete	NA	█	█	█
VS	WO-A-0016	AUAF Board of Trustees Support	Complete	NA	█	█	█
VS	WO-A-0017	Faculty of Education	Complete	NA	█	█	█
VS	WO-A-0021	MoEW VTC Rehab Drawing Review	Complete	NA	█	█	█
VS	WO-A-0028	IOM 50 BH Samangan Geotech Review	Complete	NA	█	█	█
E	WO-A-0011	HFO Feasibility for Tarakhil Power Plant	Complete	NA	█	█	█
VS	WO-A-0030	ISD-DGA Proposal Review	Complete	NA	█	█	█
VS	WO-A-0029	CHEF PTTC Drawing Review	Complete	NA	█	█	█
WR	WO-A-0018	Dam #1 Review for Pul-e-Khumri	Complete	NA	█	█	█
WR	WO-A-0019	Dam #2 Review for Pul-e-Khumri	Complete	NA	█	█	█
VS	WO-A-0031	100 BH IQC Comparison ROM	Complete	NA	█	█	█
E	WO-A-0015	MOT Electrical	Complete	NA	█	█	█
E	WO-A-0009	Integration of Nangarhar into NEPS	Complete	NA	█	█	█
WR	WO-A-0025	Kajaki Dam	Complete	NA	█	█	█
WR	WO-A-0032	Pul-e-Khumri Cost Estimate	Complete	NA	█	█	█
VS	WO-A-0033	MoPH Complex Structural Design Review	Complete	NA	█	█	█
VS	WO-A-0036	AUAF 3D CDR Presentations	Complete	NA	█	█	█
TS	WO-A-0040	Power Point Presentation	Complete	NA	█	█	█
WR	WO-A-0034	Kajaki Dam SOW	Complete	NA	█	█	█
E	WO-A-0027	National Electric Distribution Work Unit Quantity Model	Complete	NA	█	█	█
T	WO-A-0037	Doshi to Salang Tunnel Pavement Design Review	Complete	NA	█	█	█
VS, E, & W/S	WO-A-0044	Kabul University DFAC and Laundry 35% Design Review	Complete	NA	█	█	█
TS	WO-A-0048	Action Memo SGFDP	Complete	NA	█	█	█
VS, E, & W/S	WO-LT-0002	AUAF Concept Design	Complete	█	█	█	█
VS	WO-A-0042	AVIPA Processing Plant Review	Complete	NA	█	█	█
TS	WO-A-0023	Data Collection for Afghan Contractors Capacity Building	Complete	NA	█	█	█
E	WO-A-0054	NLCC 30% Electrical Design Review	Complete	NA	█	█	█
E	WO-A-0038	Execution Plan for RC-East and Nangarhar Elec Power Distribution Program	Complete	NA	█	█	█
WR	WO-A-0039	Kajaki Dam Cost Review	Complete	NA	█	█	█
WR	WO-A-0043	Shahtoot and Sarobi II Dam Review	Complete	NA	█	█	█
E	WO-A-0052	NEPS-SEPS Connection Review	Complete	NA	█	█	█
VS	WO-A-0055	NLCC 90% Design Review	Complete	NA	█	█	█
E	WO-A-0057	NEPS-Kandahar Construction Plan	Complete	NA	█	█	█
TS	WO-A-0050	USAID DVD/CD Filing	Complete	NA	█	█	█
VS	WO-A-0062	FOHE Schematic Design Review	Complete	NA	█	█	█

Program Type ⁽³⁾	Work Order Number	Description	Status ⁽⁴⁾	Estimated Cost (ROM)	In Country Cost to Date ⁽⁶⁾	Reach Back Cost to Date ⁽⁶⁾	Total Cost to Date ⁽⁶⁾
T	WO-A-0045	Chagcharan Airport Site Visit	Complete	NA			
WR	WO-A-0049	Badakshan Bridge Independent Review	Complete	NA			
T	WO-A-0047	Technical Review Maimana & Faizabad Airport	Complete	NA			
VS	WO-A-0051	MOT Electrical Phase II Drawing Review	Complete	NA			
TS	WO-A-0065	Pre-Award Survey of Afghan Construction Companies	Complete	NA			
WR	WO-A-0061	Bamyan Dam Study	Complete	NA			
WR	WO-A-0063	Topchi Hydropower Plant Canal Review	Complete	NA			
T	WO-LT-0008	LAMPs for Maimana & Faizabad Airport	Complete				
VS	WO-LT-0013	Three Towers Project	Complete				
E	WO-A-0053	ACEP Report Review	Complete	NA			
VS	WO-A-0066	Sardar Roof Design Review	Complete	NA			
E	WO-A-0046	Jalalabad Elec Power Distribution	Complete	NA			
VS	WO-A-0069	Construction Principles Guidelines	Complete	NA			
VS	WO-A-0070	100% NLCC Design Review	Complete	NA			
VS	WO-A-0071	PTTC Water Tower Review	Complete	NA			
VS	WO-A-0073	Roof Framing Design for Sardar Girls High School	Complete	NA			
TS	WO-A-0068	USAID Plan Filing	Complete	NA			
VS	WO-A-0074	Insulation Materials Technical Comparison	Complete	NA			
VS	WO-A-0067	Ghazi Admin Bldg Design Review	Complete	NA			
W/S, E	WO-LT-0004	MoPH Design Management: Extension of Staff Services & Design Reviews	Complete				
T	WO-A-0076	Kabul Road Preliminary Costing	Complete	NA			
WR	WO-LT-0034	Topchi HPP Design Review	Complete				
T	WO-A-0075	Khost-Gardez Highway Failure Investigation	Complete	NA			
E	WO-A-0059	Parwan Road Village Electrification	Complete	NA			
E	WO-A-0064	Sufyane Village Electrification	Complete	NA			
E	WO-LT-0030	Sherberghan 200MW Power Plant Feasibility Study	Complete				
E	WO-LT-0036	Tarakhil PP Operational Evaluation	Complete				
TS	WO-LT-0039	CHEF Environmental Site Assessment Services	Complete				
E	WO-LT-0031	Concept Design for Three 20-kV Lines	Complete				
W/S, E	WO-LT-0005	GBHS Utility Construction Documents	Complete				
E	WO-LT-0021	Selected NEPS Transmission Line Field Investigation	Complete				
E	WO-LT-0012	PK to Chintala Transmission Line	Complete				
E	WO-LT-0035	Afghanistan Electricity Sector Economic Study	Complete				
W/S	WO-A-0060	Embassy Biodigestion Study	Complete	NA			
T	WO-LT-0009 AMD 1	PRT Field Support - Khost Bridge Final Design	Complete				
T	WO-LT-0009 AMD 4	Matun and Lakan Crossings Conceptual Bridge Designs	Complete				
E	WO-LT-0044	Bamyan Valley T & D Design	Complete				
E	WO-A-0082	SEPS Technical Services	Complete	NA			
E	WO-A-0079	Tarakhil O&M Estimate	Complete	NA			
TS	WO-A-0058	Afghan Standardization	Complete	NA			
TS	WO-A-0078	Kajaki Unit 2 Assessment	Complete	NA			
T	WO-A-0081	K-K Bridge Calculations Review	Complete	NA			
TS	WO-A-0072	File Transfer Services	Complete	NA			
VS	WO-A-0083	Review of Sardar GHS Fire Doors	Complete	NA			
E	WO-LT-0025	RC-East Villages Electrification	Complete				
E	WO-A-0080	Gas Pipeline Pre-Feasibility Study	Complete	NA			
E	WO-LT-0051	NEPS-SEPS Alternatives Study	Complete				
E	WO-LT-0022	Power Reliability Study (US Embassy, USAID)	Complete				
TS	WO-LT-0045	Darunta Technical Services	Complete				
TS	WO-A-0024	Afghan First COP Meetings	Complete	NA			
TS	WO-A-0077	KHPP Environmental Services	Complete	NA			
E	WO-LT-0024	Kud Bergh (Mazar) 48MW Power Plant Field Investigation	Complete				
E	WO-LT-0043	PTEC - Environmental Assessments Power Transmission, Expansion and Connectivity	Complete				
E	WO-LT-0023	Afghanistan Electrical Transmission & Generation Study	Complete				
T	WO-LT-0007	QA Oversight SPR - Southern & Eastern Afghanistan	Complete				
VS	WO-A-0084	Sardar GHS Fire Door Suppliers and Cost Estimates	Complete	NA			
VS	WO-LT-0001	Regional and Provincial Training Centers Concept and Final Design	Complete				

Program Type ⁽³⁾	Work Order Number	Description	Status ⁽⁴⁾	Estimated Cost (ROM)	In Country Cost to Date ⁽⁶⁾	Reach Back Cost to Date ⁽⁶⁾	Total Cost to Date ⁽⁶⁾
W/S	WO-A-0085	GBHS Winter Operations Support	Complete	NA	█	█	█
VS	WO-LT-0014	VTC Green Design	Complete	█	█	█	█
T	WO-LT-0049	Evaluation of MoPW Capacity to Conduct Roadway O&M	Complete	█	█	█	█
E	WO-LT-0053	NEPS and NEPS - SEPS Connection Assessments	Complete	█	█	█	█
TS	WO-LT-0033 AMD 1	USAID/OAA Claims Assistance	Complete	█	█	█	█
VS	WO-LT-0057	Tarakhil Fire Suppression System Assessment	Complete	█	█	█	█
VS	WO-LT-0015	Kabul University Technical Assistance	Complete	█	█	█	█
VS	WO-LT-0056	Structural Engineering and Cost Estimating Services for Seismic Retrofit Options	Complete	█	█	█	█
E	WO-LT-0055	Darunta HPP Assessments	Complete	█	█	█	█
T	WO-LT-0029	Maimana and Faizabad Airport 3rd Party QA	Complete	█	█	█	█
VS	WO-LT-0052	Annual O&M Cost Budgets	Complete	█	█	█	█
T	WO-LT-0041	MoTCA - Regional Airport Support	Complete	█	█	█	█
TS	WO-A-0088	Regak Bridge QA	Complete	█	█	█	█
TS	WO-A-0087	STFS Support	Complete	█	█	█	█
E	WO-LT-0054	Reactive Power Compensation for PK to Chimtala	Complete	█	█	█	█
E	WO-LT-0068	Nangarhar Hydro Load & System Studies	Complete	█	█	█	█
T	WO-LT-0009 AMD 2	PRT Field Support - Bamyan Dam Sites Pre-Feasibility Studies	Complete	█	█	█	█
TS	WO-A-0090	Tarakhil Fire Suppression Component Analysis	Complete	NA	█	█	█
TS	WO-LT-0033 AMD 2	USAID, OAA Claims Assistance - UNOPS	Complete	█	█	█	█
TS	WO-LT-0033 AMD 3	USAID, OAA Claims Assistance - IRD	Complete	█	█	█	█

Project Summary

Project Issues Summary Report
 Afghanistan Engineering Support Program
 IQC: Task Order 01 - EDH-1-00-08-00027-00
 USAID Office of Economic Growth and Infrastructure (OEGI)

Updated: November 02, 2013

Issue	Status	Action Required
Contract Plans		
Annual Work Plan	Y5 Work Plan submitted 08/02/2013 - Work plan approved on 09/02/13	No action required.
PMP (Performance Monitoring Plan)	Final PMP submitted 4/3/2010. USAID requested revisions 10/16/10 and met with TT on 11/6. TT submitted draft 11/20/10. Sector PMP forms submitted 11/22/10.	No action required.
Quarterly Progress Reports	TT submitted FY13 Q3 on 07/10/13	No action required.
Annual Report for Each FY	Y4 Annual Report work has begun. Y4 Annual Report to be submitted on 11/01/13	No action required.
Financial		
Status of Obligated Funds and Budget Approval	Obligated funds received (MOD 20) approved 8/14/13 - TO funded thru November 2014	No action required.
Contract Expenditure Status	September Invoice submitted. Burndown report to be updated and submitted	AESP to submit updated BD report
Obligated Contract Expenditure	On budget	No action required.
Quarterly Accruals	FY14 Q1 accrual letter to be submitted 12/11/13.	No action required.
1420s & Staffing Approval		
1420 Approvals for Tetra Tech Employees and Sub-Consultants	T-0220 Resubmitted 08/31/13	Awaiting OAA acceptance
Misc Items		
2013 Audit	AESP Audit complete preliminary findings and response review underway	No action required.
Afghan Info	Update completed for FY13 Q4	No action required.
Vehicle update	Aquired two softskin SUVs w/o green books through USAID	Awaiting letter from OAA office
Closeout Planning	Closeout plan including contract schedule underway - to be submitted during Y5 Q2	Discussion
LOE Planning Y5	Workload review and workdays projection into Y5; Workday(s) increase review (1,000 to 2,000)	No action required.
Photo Usage Permisssion	Request from Home Office	Discussion

Legend	
Item requires direction or is behind schedule	
Item is proceed but clarification or direction is required for completion	
Item is proceeding and is expected to be completed on schedule	

Appendix B

FY 2012 Project Deliverables (CD)

(Provided under a separate cover)

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