

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.



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AFGHANISTAN

AFGHANISTAN ENGINEERING SUPPORT PROGRAM

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

Task Order No. 1

Fiscal Year 2015 Annual Report – Revision 1



November 12, 2015

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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November 12, 2015

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Office of Economic Growth and Infrastructure (OEGI)
U.S. Agency for International Development
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**Re: Contract No. EDH-I-00-08-00027-00 / Task Order No. 1
Afghanistan Engineering Support Program (AESP)
Fiscal Year 2015 Annual Report – Revision 1**

Dear [REDACTED],

Tetra Tech is pleased to submit this Annual Report for fiscal year (FY) 2015, as provided in section C.5, "Deliverables," paragraph D of the above referenced Task Order. The FY 2015 Annual report covers the period of October 1, 2014 to September 30, 2015 for Year 6 of the Task Order.

AESP was scheduled to close at the end of Year 6, but in the fourth quarter, the project was extended one more year. During the latter part of this quarter, Tetra Tech was tasked with a new scope and direction to provide Construction Management (CM) and QA services for the PTEC program. To support Tetra Tech's shifting focus to Construction Management and QA, Tetra Tech added an expat Construction Management Services Director and a DABS Liaison. This new and exciting direction will require a significant increase to our existing staff and infrastructure, as well as a commensurate change to the LOE.

As we continue to work through Year 7 of the Afghanistan Engineering Support Program, it is clear that the emphasis on AESP is moving toward project construction implementation. Tetra Tech looks forward to being an integral part of the implementation process by providing Quality Assurance (QA) and Construction Management (CM) services for PTEC projects. In particular, the implementation of the NEPS-SEPS Connector between Kabul and Kandahar will be a flagship achievement for both USAID Afghanistan and AESP.

We look forward to continuing our support of the USAID OEGI mission, and to strengthening our partnership while building 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)

cc: [REDACTED]
[REDACTED]
[REDACTED]

AFGHANISTAN ENGINEERING SUPPORT PROGRAM

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

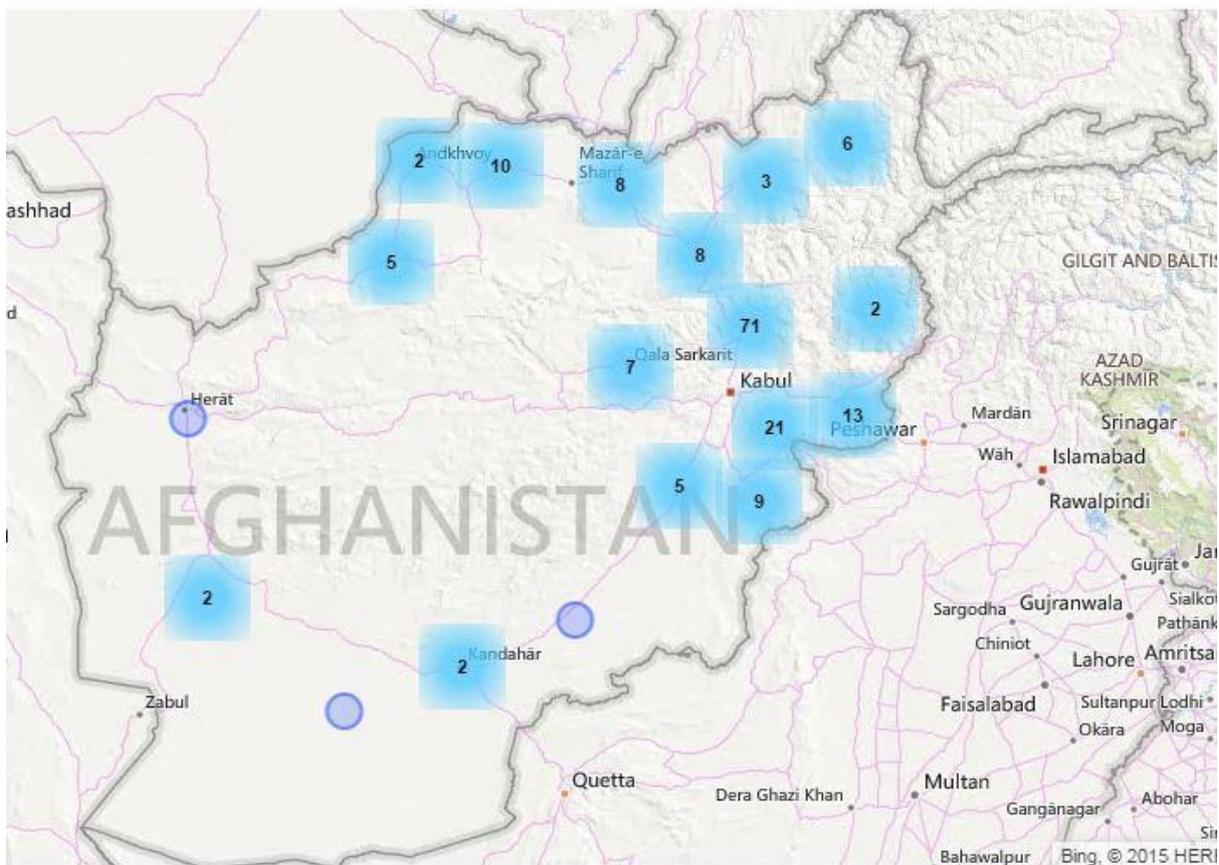
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PROJECT OVERVIEW

The Tetra Tech (Tt) Afghanistan Engineering Support Program (AESP) provides planning, design, engineering, and technical oversight support to Afghanistan through collaboration and coordination with the United States Agency for International Development (USAID), Afghanistan Office of Economic Growth and Infrastructure (OEGI). Through AESP work, Tt contributes to local national capacity building by mentoring and providing international caliber experience to our staff and partners. Tt AESP performs activities that complement and reinforce the activities and engineering expertise of USAID OEGI staff in the following sectors: Energy, Transportation, Vertical Structures, Water, and Water Sanitation.

Tt AESP consists of a Kabul-based core of expatriate engineering professionals leading a competent staff of local Afghan engineers and support professionals. Support professionals include home office, or “reachback”, support from highly-qualified US-based staff. Our local team continues to display adaptability, mobility, and responsiveness to the needs of USAID.

- Activity Start Date: November 9, 2009
- Activity End Date: November 8, 2016
- Prime Implementing Partner: Tetra Tech, Inc.
- Teaming Partners/Sub-awardees: Power Engineers, GardaWorld, USACC, SMART Engineers
- Geographic Coverage: Afghanistan, see Figure 1 below



*The light blue squares represent multiple projects. The purple circles represent a single project.

Figure 1 2009 – 2015 Tt AESP Project Locations¹

¹ Map Source: Tt AESP’s Afghan Info Reporting Site

EXECUTIVE SUMMARY

This report covers the period from October 1, 2014 to September 30, 2015. During this period, Tt AESP submitted 625 deliverables. Key deliverables this year included five Request for Proposals (RFPs) with the associated technical documents. The RFPs included the transmission line for SEPS Completion, the substations for SEPS Completion, the transmission lines and substations for the NEPS-SEPS Connector and a substation at the Salang Tunnel. The combined RFPs will exceed [REDACTED]. Other important deliverables included the Quality Assurance (QA) Plan, QA Biweekly and Monthly reports and continued work on the Quality Assurance Technical Manual. These documents form the foundation of AESP's QA program, which, in addition to a pending Construction Management Task Order, will comprise the majority of AESP's work going forward.

Beginning this year, AESP began fulfilling its role as QA monitor for the Power Transmission Expansion and Connectivity (PTEC) Program. This role required review of schedules, plans, progress, factory acceptance testing, and providing reports to USAID, including non-compliance issues, recommendations, and audits.

Highlights of the quarter within each sector, and technical support and oversight services noted below, exemplify AESP's diverse support of the USAID OEGI mission in Afghanistan.

Summary of Results for the Reporting Period and Key Accomplishments

Energy Sector

A leading challenge for the development of Afghanistan is to provide reliable power to all regions. Increased access to cost-effective electricity and expansion of the electrical transmission grid represents one option to improve the lives of Afghanistan's citizens. This priority is reflected in Tt AESP's work as the majority of efforts in FY 2015 were directed towards supporting USAID OEGI through energy related work orders. While these work orders have previously focused on the provision of design and bidding assistance services, the emphasis will shift away from design services and will focus more on the subsequent Construction Management Services (CMS) required during the construction phase of these projects.

A priority for USAID OEGI has been the PTEC Program. A major component of PTEC, and the focus of AESP this year, has been connecting the Northeast Power System (NEPS) to the Southeast Power System (SEPS). The NEPS-SEPS Connector will create a 220kV high voltage connection from southern Afghanistan to secure power from its neighbors to the North. When complete, the total cost for construction of the NEPS-SEPS Connector and attendant substations will equal approximately [REDACTED]

During FY 2015, AESP had four active long-term work orders related to the design and construction of the NEPS and SEPS electrical systems. WO-LT-0048 and WO-LT-0063 include designs for the new 220kV transmission lines and substations from Arghandi to Kandahar East and the Salang Tunnel Substation, respectively. For both work orders, USAID requested a design change to create consistency amongst Afghanistan's power vector groups. Therefore, AESP provided design changes for both WO-LT-0048 and WO-LT-0063, which were incorporated into the Technical Sections.

Tetra Tech also provided bidding support services during FY 2015 for the above mentioned work orders. This included observing bid related committee meetings and activities, drafting and editing bid memos, and developing and refining engineer's estimates.

Originally, WO-LT-0063 consisted of two separate RFPs, but due to the above requested design changes and other considerations, the RFPs were withdrawn and repackaged into a single RFP. The repackaged bid has since been released for bidding. Tt is currently responding to Requests for Information (RFIs) related to this RFP. WO-LT0048 was put out to bid, but was rebid to increase bidder participation. For WO-LT-0048 Transmission Lines, Tetra Tech assisted DABS with the re-bid process, revising and repackaging the corresponding RFP for re-bid. The revised bid is currently undergoing on-budget review by DABS and USAID.

Two other ongoing work orders related to the NEPS-SEPS connector are WO-LT-0090 and WO-LT-0091. WO-LT-0090 provides Quality Assurance services for PTEC implementation activities, under which, Tt began monitoring and evaluating the construction of transmission lines and substations traversing from Arghandi to Ghazni. The second work order is WO-LT-0091: SEPS Completion. Tetra Tech prepared electrical designs and contractual bidding documents necessary for completion of SEPS in Kandahar and Helmand Provinces. This year, AESP submitted complete RFPs for the transmission and substations portions of this work order. The repackaged bids are currently undergoing on-budget review by DABS and USAID.

Additionally, Tetra Tech will provide technical support and construction oversight in the form of CMS for the PTEC projects including Arghandi-Ghazni Transmission Line and Sayedabad and Ghazni substations, and potentially, the Ghazni-Kandahar East Transmission Lines and Substations, the Salang Tunnel Substation, the Tarakhil Power Plant and SEPS Completion, under WO-LT-0092.

AESP also supported significant work at the Tarakhil Thermal Power Plant (TPP) through long-term work order WO-LT-0070, which provides design, engineering, operational support and technical assistance services to USAID and DABS through four open amendments and two pending amendments. Work this year included providing technical assistance to Phoenix IT Solutions, Ltd (Phoenix) and DABS for inventory of critical spare parts. Tt AESP also initiated SCADA upgrades in the TPP control systems, and provided technical assistance for creating a SCADA/CMMS Interface. Additionally, Tt prepared and submitted a report providing recommendations for the repair and re-commissioning of the existing TPP firefighting system.

Transportation

Tt AESP had four active transportation work orders in FY 2015 dealing with design and submittal reviews, technical analyses, and design plans.

AESP previously subcontracted the performance of as-built surveys and geotechnical investigations for the Parun Road project in the Nuristan province. Based on the results of these evaluations, Tt AESP prepared a new Statement of Work (SOW) along with revised plans, specifications, and BOQ for completion of the Parun Road improvements. These included drainage, road graveling, and lighting reconstruction work. This work was completed as part of long term work order 0009 Amendment 7.

For AESP Work Order LT-0084 Gardez to Khost (GK) Road Phase 4, Tt Kabul and Tt Reachback both have continued to provide engineering consultant reviews to contractor submittals of drainage structure shop drawings, material product submittals of drainage structures and bridges, contractor designed drawings of restoration plans of existing bridges and contractor developed submittal tracker files. Tt Kabul engineers have continued attendance into weekly progress meetings held at USAID. Tt will continue these efforts into the next quarter, in addition to the new task of as-built submittal/drawing reviews.

Vertical Structures

AESP had two active work orders in the Vertical Structures Sector: long-term work orders WO-LT-0082 and WO-LT-0089.

Under WO-LT-0082, AESP provided on-call engineering services for USAID vertical structure projects. Tt AESP was tasked by USAID to perform a design review of the proposed new Sabez School located in the Adraskan District of Herat Province, Afghanistan. Tt reviewed the proposed school design for conformance with International Building Code's (IBC) structural and seismic requirements. The Tt AESP results were presented in a technical memo that included a description of the overall design review methodology and final conclusions. Tetra Tech will also perform a design review of the proposed new American University of Afghanistan Women's Dormitory under WO-LT-0082.

WO-LT-0089 was cancelled in the third quarter.

Water Resources

This year AESP had one active work order in the Water Resources sector. Administrative work order (A) WO-A-0098 analyzed existing data to determine the feasibility of using an Aquifer Recharge System (ARS) in the Kabul River Basin. After receiving comments on a draft submittal from USAID, Tt revised and submitted a final technical memo on November 29, 2014. It is available should any new work orders concerning water resources or water sanitation be issued.

Technical Support and Oversight

Technical Support and Oversight includes work orders that allow AESP to provide technical assistance to USAID programing as they arise. This also includes work orders that do not clearly fit within specified categories defined in the original AESP Task Order or that cross over into multiple sectors. AESP makes use of its flexibility, mobility, depth of activities, and its commitment to capacity building and gender equality through support on Technical Support and Oversight services Work Orders.

This year, AESP provided support to USAID under three long-term Technical Support work orders. WO-LT-0065 remained open on an as needed basis, to provide media assistance for USAID activities. In the fourth quarter, Tt began submitting photos of construction progress for the Arghandi – Ghazni Transmission Lines and Substation on a bi-weekly basis.

The Afghan Women Internship Program under long term Work Order WO-LT-0042 exemplifies AESP's commitment to capacity building and gender equality. The Afghan Women Internship Program supports the technical and professional development of female students in their fourth year of engineering. Under the direct supervision and mentorship of Tt professional expats and local professional staff, the program provides: opportunities for practical training, real world engineering experiences, and strengthened communication skills. This year, two groups of four interns completed on-the-job training, shadowed Tt ongoing projects, and received practical and software training based on their curriculum. A variety of activities gives the women diverse experiences to be competitive and prepared for when they enter the job market.

Capacity Building

Tetra Tech AESP is dedicated to USAID's mission of capacity building. Since the inception of the task order, Tt AESP has focused on training AESP's local staff to operate at internationally accepted levels, not only in their chosen professions, but also in cross-discipline professional skills such as: communication, public speaking, teamwork, and critical thinking. Due to Tt's commitment to capacity building, the constitution of the staff has gradually shifted from a mostly expatriate staff to a highly capable local national staff which currently comprises approximately 80% of Tt's employees.

Tt's management staff holds weekly "all hands meetings" for capacity building for training in teamwork, leadership, public speaking, and communication. Accordingly, Tt's professionals have taken a more active role in growing DABS' abilities by providing advice in the bid opening and evaluation process this fiscal year.

Constraints and Critical Issues

Although security concerns did not prevent Tetra Tech AESP from completing its mission this year, security remains a significant concern. AESP has seen and will continue to see an increased number of teams going into the field to fulfill QA auditing and CMS inspection activities, often to areas where security is a major issue. Tetra Tech has increased security efforts through more extensive daily security briefings and closer involvement of Tt's Security Team in logistical planning. Tetra Tech will continue to respond to the rapidly changing security situation to ensure the safety of our personnel.

Conference facilities at the Tt Villa remained available as a practical option for USAID to hold business meetings with other implementing partners and Afghanistan stakeholders. Using the Tt Villa facilities mitigates the security risks associated with travel around Kabul during periods of unpredictable insurgent activity. Tt AESP will continue to provide hosting capabilities for USAID meetings as long as the project is active.

Summary

As described above, Tt AESP has provided USAID OEGI with diverse engineering expertise and dynamic support for USAID goals and objectives throughout Year 6 of the contract. The broad diversity of the Tt AESP program is evident in the variety of services and deliverables submitted to USAID OEGI in FY 2015. Looking forward, Tt AESP will remain responsive, mobile, and relevant in fiscal year 2016. Tetra Tech will continue to work for orders issued by USAID OEGI that provide needed technical services, capacity building, and gender equality opportunities in Afghanistan.

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ACRONYMS

A	Administrative
A/E	Architect and Engineer
AESP	Afghanistan Engineering Support Program
AIDAR	USAID Acquisition Regulation
AMD	Amendment
ARS	Aquifer Recharge System
AUAF	American University of Afghanistan
BOQ	Bill of Quantity
CM	Construction Management
CMMS	Computerized Maintenance Management System
CMS	Construction Management Services
DABS	Da Afghanistan Breshna Sherkat
DCAA	Defense Contract Audit Agency
DOC	Development Outreach and Communication Office
EB	Estimated Budget
GK	Gardez to Khost Road
IBC	International Building Codes
LN	Local National
LOE	Level of Effort
LT	Long-term
NEPS	Northeast Power System
NTP	Notice to Proceed
OEGI	Afghanistan Office of Economic Growth, and Infrastructure
POC	Point of Contact
PTEC	Power Transmission Expansion, and Connectivity
QA	Quality Assurance
QA	Quality Control
RFIs	Request for Information
RFPs	Request for Proposals
ROM	Rough Order of Magnitude cost estimate
SCADA	Supervisory Control and Data Acquisition
SEPS	Southeast Power System
SIVs	Special Immigration Visa
SOO	Statement of Objective
SOW	Scope of Work
SOW	Statement of Work
TPP	Thermal Power Plant
Tt	Tetra Tech
USACE	United States Army Corps of Engineers
USAID	United States Agency for International Development
USD	United States Dollars
WB	World Bank
WP	Work-Plan

1.0 ACTIVITY IMPLEMENTATION

1.1 KEY ACTIVITIES ACCOMPLISHED DURING THE YEAR

Tt AESP is 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, AESP creates work orders to track individual projects.

Work orders fall into one of two categories: administrative (A) or long-term (LT). Administrative work orders are defined as tasks requiring a total level of effort (LOE) less than or equal to 18 business days (144 work hours). Long-term work orders are defined as activities requiring a total LOE exceeding 18 business days. For each long-term work order, Tt AESP prepares and submits a Scope of Work (SOW) and a Rough Order of Magnitude Cost Estimate (ROM). In the fourth quarter, USAID requested that these planning documents be given the names of Work Plan (WP) and Estimated Budget (EB), respectively. Accordingly, new work orders now follow the updated naming standards.

Tt AESP supports USAID OEGI's mission throughout Afghanistan using both administrative and long term work orders. For tracking purposes, work orders are broken into one of the following sectors: Energy, Vertical Structures, Transportation, Water Resources, and Water and Sanitation, as stated in Tt AESP's IQC. When a work request falls outside the sectors above, it is classified as Technical Services. This year Tt AESP provided support under 17 work orders in the Energy sector, 1 work order in Vertical Structures, 3 Transportation work orders, 1 Water Resources work order, and 2 Technical Services work orders. Hence, the majority of AESP work orders and subsequent work were related to the energy sector for fiscal year 2015. Table 1.1 below describes the work order activities performed during the year.

1.1.1.1 Table 1.1 Summary of Work Completed During Fiscal Year 2015

Number	Work Order Title	Summary of Work Completed
WO-A-0098	Kabul Basin Aquifer Feasibility Study	Tt reviewed existing technical documentation to determine if a full feasibility study addressing the implementation of an Aquifer Recharge System (ARS) in the Kabul River Basin would be a logical step forward. Tt submitted a Technical Memo which includes a discussion of key pre-feasibility study elements and data requirements needed to move forward on November 29, 2014. This work order was completed in the first quarter.
WO-A-0099	SEPS Completion GFE Inventory	USAID requested the deployment of Tt staff to provide an inventory of equipment for SEPS completion. Tt mobilized a team on February 22, 2015 to do the inventory, but due to constraints were not able to complete the inventory. This work was shifted under WO-LT-0091 and the final technical memo closing this work order was submitted early in the third quarter.
WO-A-0100	Interim QA/QC Monitoring & Evaluation and Construction Management Services	Tetra Tech received a Statement of Objectives (SOO) to include construction management oversight for power infrastructure construction projects as directed by USAID. Upon NTP, Tetra Tech immediately assumed CMS oversight duties and responsibilities for the Arghandi-Ghazni

		transmission line and the Sayedabad and Ghazni substation work currently underway. This work will shift to WO-LT-0092 upon NTP.
WO-LT-0009 AMD 7	Parun Road Graveling and Lighting Reconstruction	It received NTP on July 8, 2014 to provide project evaluation and supervision services in connection with the Parun Road construction in Nuristan Province. During the second quarter, It prepared a detailed Statement of Work, updated plans, specifications, and BOQ for the completion of the Parun Road project based upon verification of the existing project status and geotechnical investigations performed at the site.
WO-LT-0042	Afghan Women Internship Program	In the 2015 year, the interns graduated and a new curriculum was created and interns were hired for the 2015 academic year. It developed a curriculum and schedule for the Afghan Women Internship Program. Eight women participated in the 2014 and 2015 programs. They participated in programs geared toward bettering their technical skills and job skills through software training, on-the-job training, and shadowing opportunities. The interns were asked to participate in parallel work in some basic engineering tasks for several work orders.
WO-LT-0048 AMD 4	Qarabagh to Kandahar East Five Substations	USAID OEGI requested a SOW and ROM to create and deliver a technical section for the proposed substations in Qarabagh, Moqor/Gelan, Shah Joy, Qalat, and Kandahar East. The final technical sections were submitted during the first quarter. In the remaining quarters, It AESP provided technical responses to bidder's RFIs and assisted with bid evaluations. The Bid Opening was July 26, 2015. It AESP provided Observers to the Bid Opening, Preliminary Examination, and Technical Evaluation Committees. Bid evaluations will continue into the next quarter. The final report is expected in the next quarter.
WO-LT-0048 AMD 5	Transmission Line from Ghazni to Kandahar East	USAID OEGI requested a SOW and ROM to create and deliver a technical section for the proposed transmission lines from Qarabagh to Kandahar East. The final technical sections were submitted in the first quarter. During the remaining quarters, It AESP provided technical responses to bidder's RFIs and assisted DABS with bid evaluations. The Bid Opening was June 21, 2015. It AESP provided observers to the Preliminary Examination, Technical Evaluation, and Financial Evaluation and Comparison Committees. Bid evaluations will continue into the next quarter. The final report was produced in the fourth quarter. It AESP is currently assisting DABS with the rebid of this RFP.

WO-LT-0048 AMD 6	RPC At Kabul and Kandahar East	USAID OEGI requested a SOW and ROM to provide engineering support to the build out of the 220kV Northeast Power System (NEPS) to the Kandahar East electrical power distribution system. The work on this amendment was rolled into the Technical Section 6 for amendment 4 as an addendum during the first quarter. During the following quarters, Tt AESP provided technical responses for bidders' RFIs and assisted DABS with bid evaluations. The Bid Opening was July 26, 2015. Tt AESP provided Observers to the Bid Opening, Preliminary Examination, and Technical Evaluation Committees. Bid evaluations will continue into the next quarter. The final report is expected in the next quarter.
WO-LT-0048 AMD 7	SEPS completion	USAID requested the development of a SOW and ROM on September 24, 2014 for a plan to complete the SEPS project. Originally incorporated as AMD 7, the COR decided to create a new work order, LT-0091, to complete this project and this amendment was cancelled.
WO-LT-0048 AMD 8	Design Change for Substations from Sayedabad to Kandahar East	Tt received NTP on March 5, 2015 to prepare the vector group design changes to the existing drawings for the Substations from Sayedabad to Kandahar East. Changes to the existing drawings for the substations were executed and this work order was completed on June 19, 2015.
WO-LT-0059	NEPS System Protective Relay	USAID requested a SOW and ROM to deliver protective relaying coordination studies to key portions of Afghanistan's NEPS medium voltage and high voltage electrical grid. This work has continued to be on hold throughout this year.
WO-LT-0059 AMD 3	NEPS Kabul Area Substation Assessments	USAID requested a SOW and ROM to provide assessments of Kabul North, Northwest, and MW Radio Substations to identify other deficiencies beyond the protective relay coordination scope of WO-LT-0059 Task 14. Tt submitted a revised SOW and ROM on February 21, 2015 which would allow DABs to self-perform. This work order was cancelled in the second quarter.
WO-LT-0063 AMD 4	Salang Tunnel Substation Pre-Purchase Specs	Pre-Purchases no.1 and no. 2 were approved by USAID during the first two quarters, however USAID decided to combine all RFPs from this work order's amendments into one. Therefore, the tasks for this amendment were completed in the third quarter.
WO-LT-0063 AMD 6	Salang Tunnel Substation Detailed Design	Salang Tunnel design and specifications have been incorporated into RFPs for advertising. These RFPs were put out to bid during the second quarter, and Tt answered RFIs in the third quarter.

		Additionally, the RFP was withdrawn, per USAID request, and this WO has been put on hold.
WO-LT-0063 AMD 7	Salang Tunnel Substation Gas Insulated Switchgear Redesign	USAID technical POC requested the development of a SOW and ROM on August 18, 2014 to redesign the Salang Tunnel Substation using GIS. After considerable analysis, AESP issued a No-Go Decision Memo to USAID on December 1, 2014 recommending the cancellation of this amendment. Subsequently, this amendment was cancelled during the first quarter.
WO-LT-0063 AMD 8	Salang Tunnel Substation Combined RFP and Transformer Vector Modification	USAID directed Tt to revise the designs, adapt Section 6, and combine all RFPs into one. Tt received NTP on June 4, 2015 and Tt completed the task for the work order during the third quarter. Also during this quarter, Tt submitted the Salang Tunnel substation combined RFP package that included: revised pricing sheets, design changes, revised drawings as result of scope changes, and a complete RFP package. These documents were submitted to USAID on June 21 and 23, 2015. The documents for on-budget review were submitted to USAID on June 23, 2015. USAID issued the consent for issuance of solicitation documents to DABS on September 5, 2015. DABS posted the request for proposal on their Procurement website on September 8, 2015. Requests for Information, bid submission, and bid evaluation activities will continue in the next quarter.
WO-LT-0065	Media Assistance	In the past, Tt had supported the USAID Office of Economic Growth and Infrastructure (OEGI) and the Development Outreach and Communication Office (DOC) under this work order. The Tt AESP team has met with interviewees and captured interviews on video. In the fourth quarter, USAID requested bi-weekly submission of construction progress photos of the Arghandi-Ghazni Transmission Lines and Substations.
WO-LT-0070 AMD 2	Firefighting Analysis	Tt reviewed all documentation regarding the existing fire suppression systems installed at Tarakhil Thermal Power Plant including all available as-built drawings, design calculations, test results, inspection/maintenance reports for the automatic sprinkler and foam suppression systems. This work order was completed in the second quarter and was closed by USAID during the third quarter.
WO-LT-0070 AMD 4	Tarakhil Power Plant Power Block A, B and C Controls Repair	Tt received NTP for Tasks 1 & 2 on July 27, 2014. Tt received a hold request from the ACOR on July 17, 2015.

WO-LT-0070 AMD 5	Tarakhil Power Plant Alternative Fuel Source Study	Per a USAID request, Tt wrote a fuel study for an alternative fuel source for the Tarakhil Power Plant. Tt submitted the final report on February 26, 2015. This work order was closed by USAID in the third quarter.
WO-LT-0070 AMD 6	Phoenix Support at Tarakhil	Tt was asked to provide technical assistance to Phoenix at the Tarakhil Power Plant. Tt submitted comments on a scope of work for water piping repair on May 24, 2015. Tt continues to support Phoenix and DABs as they go forward with the water pipe repair. The repair RFP is currently awaiting approval from DABs leadership. Tt will continue to support TPP with QA/QC assistance upon award. ACOR asked Tt to hold this work order for now.
WO-LT-0070 AMD 7	Tarakhil Power Plant CMMS/SCADA Interface	Tt received a request from USAID to develop a SOW/ROM on October 7, 2014 for the Computerized Maintenance Management System. (CMMS) Interface at Tarakhil Power Plant. This work order was cancelled in the third quarter.
WO-LT-0072	Power System Analysis of Proposed NEPS Improvements	The objectives of this work order are to identify, analyze, and document the impacts of ongoing, planned, and potential projects in the NEPS over time through 2032. After examination of the study plan, USAID requested World Bank (WB) to complete this work since it relates more to WB activities than USAID. Consequently, this work order was closed on October 27, 2014.
WO-LT-0077 AMD 2	Gardez to Khost Bridge No. 9- Hydrological, Roadway and Bridge Design and Bid Services	Tt received NTP on January 4, 2014 to prepare a 100% detailed design of the Bridge 9 replacement. Tt submitted revised Bridge 9 bearing and footing design drawings on October 28, 2014 and a final BOQ and Design Analysis on December 14, 2014. Work on this work order was completed in the first quarter.
WO-LT-0077 AMD 4	Gardez to Khost Bridge No. 10 Bridge and Roadway Redesign Services	The objective of this work order was to redesign Bridge 10 and deliver construction drawings and specifications to USAID. AESP submitted Bridge 10 redesign drawings and specs on October 14, 2014 and a final BOQ and Design Analysis on December 14, 2014. Work on this work order was completed in the first quarter.
WO-LT-0078	NEPS Kabul Area Distribution Master Plan	Tt developed a SOW to deliver to USAID a master planning road map. The plan would allow DABS to plan for expansions and seek donor partners to develop an integrated Medium Voltage, 110 kV High Voltage, and 220 kV High Voltage power distribution system. This work order was cancelled March 18, 2015, as another donor is taking on the project.

WO-LT-0079	Transformer Rewinding Facility Assessment	Under this work order, Tt performed an assessment of the DABS transformer rewinding facility, including development of equipment and machinery lists, specifications for upgrade, and development of a concept design and budget for plant refurbishment. This work order was completed and closed during the first quarter of FY 2015.
WO-LT-0080	Meter Box and Low Voltage Distribution Panel Manufacturing Facility Assessment	Under this work order, Tt provided manufacturing facility assessments. The objective was to identify needed facility modifications and equipment required at DABS' Meter Box and Low Voltage Distribution Panel Manufacturing Facility. Further goals were to make the facility fully functional based on current and future production requirements. This work order was completed and closed during the first quarter of FY 2015.
WO-LT-0081	Concrete Pole Manufacturing Facility Assessment	Under this work order, Tt provided a manufacturing facility assessment. The facility assessment identified the facility modifications and equipment required at DABS Concrete Pole Manufacturing Facility to make the facility fully functional based on current and future production requirements. This work order was completed and closed in the first quarter of FY 2015.
WO-LT-0082	Engineering Support for Vertical Structures	Tt received NTP on May 18, 2014 to provide engineering support for higher education projects. Tt Reachback completed a design review of Sabez School on December 7, 2014. Activities under the work order are contingent on USAID forwarding assignments.
WO-LT-0082 AMD 1	American University of Afghanistan (AUAF) Women's Dormitory	USAID asked Tt to provide engineering design review services and construction phase technical review services for the new Women's Dormitory at the American University of Afghanistan (AUAF). Tt submitted WP and EB on September 3, 2015 that was returned with USAID comments.
WO-LT-0083	Kandahar Solar Photovoltaic Feasibility Study	Tt expects to support USAID with a high level desktop study of photovoltaic options to replace approximately 30% of the kWh of diesel-generated power with solar power.
WO-LT-0083 AMD 1	Cost Benefit Analysis for the NEPS-SEPS Connector.	USAID tasked Tt to perform a financial and economic analysis of the NEPS-SEPS Connector. Tt submitted a SOW/ROM to USAID on September 15, 2014. This work order was cancelled during the second quarter.
WO-LT-0083 AMD 2	Kandahar Area Design Optimization with Turbo Generators	Tt submitted a SOW/ROM on September 7, 2014. Tasks 1 and 2 are complete and Tt received NTP for Tasks 4 and 5 on March 2, 2015. Reports for tasks 2, 3, and 5 were submitted on June 16, 2015.

		Cost estimates with pricing sheets for the task 4 were submitted on July 12, 2015. It submitted the report and the cost estimate for a project to rebuild the diesel generators in the Kandahar area and improve their performance.
WO-LT-0083 AMD 3	Kandahar Solar Transaction Assistance	It Responded to a series of verbal and email inquiries from USAID about the possibility of a solar photovoltaic system in Kandahar.
WO-LT-0084	G-K Road Phase 4	It continued to support OEGI through the review of Contractor submittals for Phase IV of the GK roadway and bridge construction. Review of RFAs and attendance at bi-weekly review meetings have been ongoing throughout FY 2015. To advance critical construction activities, the review meetings became a weekly occurrence beginning in March. It has reviewed more than 603 submittals to date; many of these are resubmittals of rejected RFAs.
WO-LT-0086	Kajaki Dam Claims	This work order gives assistance to USAID for any claims for Kajaki Dams. This year, USAID reviewed the SOW outline. This work order is currently on hold pending construction of Kajaki Dam.
WO-LT-0089	Gardez and Khair Kot Hospital Mechanical QA Services	The COR requested the development of a SOW and ROM on December 7, 2014 for CHEF Gardez and Khair Kot Hospital Mechanical QA services. This work order was cancelled as the tasks required were reduced and will likely be included in WO-LT-0090 or an upcoming administrative work order.
WO-LT-0090	NEPS-SEPS Interim QA Monitoring and Evaluation Service	<p>The COR requested the development of a WP and EB for interim Quality Assurance services for various NEPS-SEPS projects. During the third quarter It started work on plan audits, FAT testing, scheduling oversight, and additional QA activities for the Arghandi-Ghazni project. Furthermore, It has submitted the QA Plan, a draft copy of the QA Manual, 9 biweekly, and 7 monthly reports to USAID. The energy team participated in factory acceptance tests (FATs) for parts quality assurance of the Arghandi to Ghazni transmission line and substations projects (WO-LT00048 AMD3).</p> <ul style="list-style-type: none"> • FAT and Training 220kV Capacitive Voltage Transformers • FAT and Training 220kV Circuit Breakers • Type test of four models of 220kV towers • FAT of tower steel. • Line hardware for 220kV lines • Telecommunications Systems

WO-LT-0091	SEPS Completion	A revised WP and EB for SEPS Completion were submitted on March 24, 2015. Tt AESP submitted a GFE inventory report on June 3, 2015. AESP has also submitted transmission line: technical sections, drawings, complete RFPs, pricing sheets, and project schedules for bidding purposes. The Substations RFP was submitted during the fourth quarter. Also during the fourth quarter, Tt submitted the Power Flow Study, the technical Section 6 and cost estimate for substations and transmission lines, and the Site Visit Report during the last quarter of this year for the trip to Kajaki HPP taken in June 2015. Construction schedules for both substations and transmission lines were also submitted during the last quarter.
WO-LT-0092	NEPS-SEPS Construction Management Services	USAID issued a SOO to Tetra Tech in the fourth quarter. Tt submitted a Work Plan and Estimated Budget on August 4, 2015. USAID requested Tetra Tech to include QA services as AMD 1 and CMS as AMD 2 to WO-LT-0090. Tetra Tech does not yet have NTP on this Work Order.
WO-LT-0093	Kajaki Hydroelectric Power Plants Construction Management Services	USAID issued a SOO to Tetra Tech in the fourth quarter. Tt submitted a Work Plan and Estimated Budget on August 17, 2015. Tt submitted a revised WP and EB on September 30, 2015.

1.2 KEY ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

Table 1.2 below describes the activities planned for the beginning of 2016. Actual work performed will be described in detail in the FY 2016 Quarter 1 Report.

1.2.1.1 Table 1.2 Summary of Work Planned for Fiscal Year 2016

Number	Work Order Title	Summary of Work Planned
WO-LT-0042	Afghan Women Internship Program	The internship program will continue with additional training and shadowing opportunities. The Work Plan and Estimated Budget for the time extension of Amendment 4 of the WO will continue the program throughout the 2015 academic year. The program is expected to expand to include 8 interns.
WO-LT-0065	Media Assistance	Tetra Tech will continue to submit construction progress photos and captions to USAID on a bi-weekly basis. Tetra Tech will also continue to provide media assistance to USAID as the need arises.
WO-LT-0070	Tarakhil Power Plant Water Piping System	Tetra Tech will continue to assist with technical elements of the piping repair for the Tarakhil Power Plant.

WO-LT-0070 AMD 6	Phoenix Support at Tarakhil Power Plant	Tetra Tech will continue to assist Phoenix with general tasks regarding the operation, maintenance, and upgrades to the Tarakhil Power Plant.
WO-LT-0082 AMD 1	American University of Afghanistan (AUAF) Women's Dormitory	Tt revised the WP and EB and NTP was granted on October 14, 2015. Tetra Tech will provide design reviews at the 35%, 65% and 99% design phases, as well as review of construction submittals.
WO-LT-0083 AMD 3	Kandahar Solar Transaction Assistance	USAID submitted a revised SOO on October 14, 2015. Tt prepared and submitted a Work Plan and Estimated Budget on October 21, 2015. Tt received comments on the submitted documents on October 27, 2015. Tetra Tech will submit a revised Work Plan in late October, 2015.
WO-LT-0084	G-K Road Phase 4	Tetra Tech will continue to provide drawing and submittal reviews for this work order during the fourth quarter. Tetra Tech may expand the Work Plan to include review of As-Built drawings.
WO-LT-0086	Kajaki Dam Claims	Tetra Tech will provide assistance to USAID for any claims on the Kajaki Dam project, if necessary.
WO-LT-0090	NEPS-SEPS Interim QA Monitoring and Evaluation Service	AESP will continue to provide QA oversight for the implementation of the PTEC Projects. Bi-weekly and monthly QA reports will be submitted. This Work Order, scheduled to close on November 8, 2015, will be incorporated into WO-LT-0092 as AMD 1.
WO-LT-0091	SEPS Completion	Tetra Tech will submit the technical section 6 for the SEPS completion substations and answer any Technical RFIs during the fourth quarter.
WO-LT-0092	NEPS-SEPS Construction Management Services	Tetra Tech will revise the Work Plan and Estimated Budget to include both QA and CMS services.
WO-LT-0093	Kajaki Hydroelectric Power Plants Construction Management Services	Tetra Tech will proceed with the tasks included under a partial NTP issued on October 15, 2015, including preparation and submission of draft subcontracts.

1.3 LESSONS LEARNED

In accordance with the contract, AESP submits an evaluation form after the completion of all work orders in order to obtain feedback to help improve performance on future work orders for this project. During FY 2015, 25 evaluations and four evaluation appeals have been submitted to USAID POCs. 22 have been returned. One was rated as exceptional, six above average, 11 satisfactory, three marginal, and one unsatisfactory. The four returned as marginal or unsatisfactory were appealed and changed to a satisfactory rating. These evaluations form the basis of Tt's analysis for lessons learned and allow for continuous improvement of AESP's work

From feedback received, AESP was notified of a deficit in scheduling, meeting deadlines, and internal and external capacity building. Therefore, AESP has taken steps to improve scheduling, hiring a

scheduler. USAID has since noted an improvement in this area. Furthermore, AESP is continually working under the direction of USAID to include more capacity building with external partners. AESP received above average remarks on collaboration and reporting and will continue to maintain this standard going forward.

1.3.1 Evaluations/Assessments/Audits

The USAID Financial Audit which began during the last quarter of FY 2014, was finalized during this year. It received the final Audit report in the fourth quarter. The audit was conducted by Davis and Associates. The audit reviewed Tt's response to the FY 2013 Crowe Horwath audit noted in AESP's FY 2014 Annual Report and looked for any new findings. These findings noted AESP had implemented proper corrective actions in all previous findings. The summary of findings concerning Tt's response to the previous audit are described in Table 3.2 below. The summary of the new report findings, Tetra Tech responses, and planned actions are described in Table 3.1 below.

On March 9, 2015 Tt AESP received notification of an upcoming audit for FY 2014 incurred costs.

1.3.1.1 Table 1.3.1: Davis Audit Summary- New AESP Findings

No.	Audit Findings and Recommendations	Tt Response to Prior Audit	Auditor Further Response	Tt Management Final Response
1	Employees' salary withholding tax payment was not adequately supported. For the period of performance of the contract with USAID, a sample of 46% of the costs incurred by the Auditee was selected for review. Upon reviewing supporting documentation for these costs, the Auditor found that one cost billed to the project was not adequately supported by documentation.	Tetra Tech (Tt) provided the Auditors with approved invoices for all of the questioned items during the audit fieldwork period, Tt is now providing all of the requested proof of payment and other documentation for each of the Auditor's seventeen questioned cost items (see attachments). Tt therefore does not need to reimburse USAID for any of the \$450,103.83 in direct costs.	We reviewed the additional documentation provided by Tetra Tech. We determined that Tetra Tech provided documentation to support all but \$4,979.32 of the costs that were previously questioned.	Tt believes the 4,979 USD in Afghan Employee Withholding Tax for the 11/16-11/30/13 pay period is 100% allowable and is supported by additional documentation.
2	In implementing USAID funded projects in Afghanistan, Tetra Tech utilized several local vendors to provide a variety of services including construction. However, Tetra Tech paid certain local vendors and contractors in United	This FAR subpart is not incorporated into the KCI Task order or IQC, nor does the Task order or IQC include a contract requirement to pay local procurements in local currency.	The Auditor believes that this reference is indeed applicable to this contract and that Tetra Tech should put in place procedures to ensure that local	Tetra Tech's Management response to the findings was provided in the audit report and we have no further management response to the

<p>States Dollars (USD) instead of local currency (Afghani). The auditors believe that payments to local vendors in USD are against the above referenced FAR requirements and are considered non-compliance. The Auditor recommends that Tetra Tech put a mechanism in place to fully comply with FAR requirements and applicable local laws and make sure that all the local procurements with local vendors are made in local currency and paid in local currency.</p>		<p>purchases are made in local currency.</p>	<p>findings at this time.</p>
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1.3.1.2 Table 3.2: Davis Audit Summary- Tt's Responses and Actions to Prior Audit Findings

Number	Prior Audit Findings	Tt Response to Prior Audit	FY 2014 Audit Finding
1	<p>Base salaries of expatriates were charged to project before the approval of Contracting Officer.</p>	<p>Since this occurrence during year 1 of the project, Tetra Tech has taken the steps necessary to ensure no employee charges to the contract without receiving prior written approval from USAID. To date, 48 expat staff have worked on the AESP project and since July 21, 2010 not a single instance of an employee charging to the project without prior approval has occurred</p>	<p>We reviewed the documentation provided by Tetra Tech and performed certain Audit procedures on this documentation. We determines Tetra Tech had a process in place to ensure that only authorized personnel with prior approval charged to the contract. We determined that Tetra Tech put in place the proper corrective actions</p>
2	<p>Log book for generators fuel consumption was not maintained.</p>	<p>On AESP, our routine management controls and targeted record keeping results in an accurate accounting of diesel fuel cost without incurring the cost of maintaining a logbook of generator diesel fuel consumption. Although a log book is not required by the AIDAR or FAR or by the Prime Contract's or Task Order's terms and conditions, Tetra Tech will maintain a formal log book if directed by the Contracting</p>	<p>We reviewed the documentation provided by Tetra Tech and performed certain Audit procedures on this documentation. While Tetra Tech stated that they believed that the prior auditors had incorrectly applied this requirement Tetra Tech is required to maintain the proper accountability over the commodities purchased under the contract. We determined that the alternative records</p>

Number	Prior Audit Findings	Tt Response to Prior Audit	FY 2014 Audit Finding
		<p>Officer. If needed, Tetra Tech will request prior approval from the Contracting Officer to incur additional cost and fee for implementation.</p>	<p>maintained by Tetra Tech are sufficient to provide proper accountability over the commodity. We determined that Tetra Tech put in place proper corrective actions.</p>
3	<p>Time In & Time Out record of subcontractors' labor was not maintained</p>	<p>Tetra Tech's time keeping policies are in accordance with commonly used practices in similar organizations; is in compliance with the US Defense Contract Audit Agency (DCAA); and subcontractors' employees pay is set according to a daily pay rate rather than hourly. Tetra Tech will maintain a record of Time In and Time Out of subcontractor labor hours in compliance with the direction of the Contracting Officer. If needed, Tetra Tech will request prior approval from the Contracting Officer to incur additional cost and fee for implementation.</p>	<p>We reviewed the documentation provided by Tetra Tech and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place proper corrective actions.</p>
4	<p>Daily time keeping record of subcontractors' employees were not approved by the Chief of Party</p>	<p>As described above, Tetra Tech and its subcontractors do comply with the subcontract clause 3.5 of Part 3 of the subcontract between Tetra Tech and its subcontractors. The Chief of Party will continue to review and approve all subcontractor invoices in the Kabul office that contain costs incurred from subcontractor employee timesheets. Tetra Tech will maintain Chief of Party approved daily time keeping records of subcontractor employees in compliance with the direction of the Contracting Officer. If needed, Tetra Tech will request prior approval from the Contracting Officer to incur additional cost and fee for implementation.</p>	<p>We reviewed the documentation provided by Tetra Tech and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place proper corrective actions.</p>

Number	Prior Audit Findings	Tt Response to Prior Audit	FY 2014 Audit Finding
5	Performance reports were not attached/prepared for the contracts of more than US \$30,000	Tetra Tech has completed Performance Reports on subcontracts of more than \$30,000 where there is no other separate quality assurance / quality control process for A-E services deliverables. Tetra Tech will complete performance reports on subcontracts of more than \$30,000 in compliance with the direction of the Contracting Officer. If needed, Tetra Tech will request prior approval from the Contracting Officer to incur additional cost and fee for implementation.	We reviewed the documentation provided by Tetra Tech and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place proper corrective actions.
6	Invoices were not approved by the Chief of Party	Tetra Tech will have subcontractor invoices approved by the Chief of Party in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer.	We reviewed the documentation provided by Tetra Tech, including invoices from Power Engineers, and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place the proper corrective actions.
7	Delivery receipts for the vehicles purchased were not prepared / attached	Tetra Tech will provide delivery receipts for vehicles purchased in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer.	We reviewed the documentation provided by Tetra Tech, including the listing of all inventory procured under the project and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place the proper corrective actions.
8	Sound commercial practices including competition not used for the selection and evaluation of subcontractors	Tetra Tech will continue to follow sound commercial practices in the selection and award of subcontractors in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer. Tetra Tech will request that the Contracting Officer place written	We reviewed the documentation provided by Tetra Tech. Tetra Tech's assessment that it is not subject to the competitive procurement requirements due to type of contract is not correct. All federal contracts are subject to the requirements for competitive procurement. Tetra Tech did however put in place the proper requirements

Number	Prior Audit Findings	Tt Response to Prior Audit	FY 2014 Audit Finding
		Consent to Subcontract statements and list our named teaming partners / subcontractors in the text of the Task Orders issued by USAID.	to address competitive procurement. We determined that Tetra Tech put in place the proper corrective actions.
9	Excluded Parties List System (EPLS) review conducted after award of contract to Subcontractors	Additional training of the AESP project office CCN Procurement staff in procurement and contract compliance practices has been implemented, along with enhanced periodic quality assurance reviews of all procurement and subcontract management files. Such training will be standard operating practice on all future USAID task orders. Tetra Tech will ensure that EPLS review will be performed in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer.	We reviewed the documentation provided by Tetra Tech and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place the proper corrective actions.
10	Information about subcontracts and sub awards greater than US\$25,000 were not available publicly on the Federal Sub award Reporting System (FSRS)	Tetra Tech acknowledges that subcontracts greater than \$25,000 under this task order are not entered into the FSRS; however, Tetra Tech does not have access to report subcontracts under this task order in FSRS. The inability to enter subcontracts into FSRS for this task order is not related to any action or inaction by Tetra Tech. USAID is the sole authority to enable this task order for reporting in FSRS. Nevertheless, Tetra Tech has been working diligently with USAID and the FSRS Help Desk to resolve this problem. Plans to Address Current Findings and Mitigate Future Risks / Repetition of Findings As noted above, Tetra Tech has and will continue to assist USAID to troubleshoot how this task order can be enabled for reporting in the FSRS. Tetra Tech has provided a formal letter to the USAID Contracting Officer (attached)	Based upon Tetra Tech's response and USAID's follow up comments – we determined that Tetra Tech is exempted from this requirement.

Number	Prior Audit Findings	Tt Response to Prior Audit	FY 2014 Audit Finding
		describing our efforts and requesting his assistance to resolve this issue. Tetra Tech will ensure that all FSRS information is reported in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer once USAID has enabled Task Order 01, and any future Task Orders issued, in FFATA.	
11	Specially Designated National (SDN) list review was not conducted	Additional training of the AESP project office CCN Procurement staff in procurement and contract compliance practices has been implemented, along with enhanced periodic quality assurance reviews of all procurement and subcontract management files. Such training will be standard operating practice on all future USAID task orders. Tetra Tech will ensure that all SDN list reviews will be conducted in compliance with the requirements of the Federal Acquisition Regulations, AIDARs, Prime Contract, Task Order, and direction of the Contracting Officer.	We reviewed the documentation provided by Tetra Tech and determined that their actions and policies and procedures represented sufficient controls. We determined that Tetra Tech put in place the proper corrective actions.

1.3.2 Monitoring and Evaluation (M&E)

The primary goal of this project is to provide essential engineering support to the USAID Afghanistan Mission through a variety of activities and projects. As AESP acts as an extension of USAID in many of these activities, AESP's ability to monitor and evaluate our *direct* impacts on the beneficiaries of these programs is somewhat limited. Therefore, Tt AESP's M&E Plan proposed the monitoring and evaluation of indicators related to the training and development of our local Afghan staff, as well as the management of our contracts. Indicators, Targets and Results are provided below:

1.3.2.1 Table 1.4 Monitoring and Evaluation

Number	Indicator	FY 2015 Target	FY 2015 Results	FY 2016 Target
I-1	Number of people employed through USG assistance in infrastructure activities.	82 persons	77 persons	83 persons
I-2	Person hours of training completed in technical energy fields supported by USG assistance	N/A	N/A	100 hours

Number	Indicator	FY 2015 Target	FY 2015 Results	FY 2016 Target
I-3	Number of days of USG funded technical assistance in technical energy fields provided to counterparts of stakeholders	N/A	N/A	100 hours
I-4	Percent of all contracts awarded for commodities and equipment that are fixed price.	100%	100%	100%
I-5	Percent of all other types of contracts (i.e. services) awarded that are fixed-price.	92%	92%	92%
I-6	Percentage of USAID funded infrastructure, that Tt AESP provided Quality Assurance or Construction Management to, which are completed and meet national and/or international standards as set forth in the contractor's contract with the Employer.	N/A	N/A	100%

Note 1: For all Targets and Results recorded as "N/A", USAID did not require Tt to report on these indicators in FY 2015, and consequently, no target was set.

2.0 COLLABORATION WITH GIROA, OTHER DONORS, OR OTHER USAID PROJECTS

2.1 LINKS WITH RELEVANT GIROA MINISTRIES

Tt AESP collaborated with DABS on numerous projects, including the NEPS-SEPS connector, Salang Tunnel Substation, electrical equipment manufacturing facility assessments and the Tarakhil Thermal Power Plant. In addition, Tt AESP provided assistance to, and coordinated with, DABS commercial contractors; GFA Consulting Limited, Phoenix, and KEC International Contractor.

2.2 LINKS WITH OTHER DONOR AGENCIES

AESP continues to take direction from USAID while coordinating with other donor agencies. AESP attended Working Power Coordination Meetings with USAID, World Bank, Asian Development Bank, and KfW Entwicklungsbank to plan and support future power coordination within Afghanistan. AESP also coordinated with the United States Army Corps of Engineers (USACE) on the SEPS completion project.

2.3 LINKS WITH OTHER USAID PROJECTS

No significant events or activities to report during the year.

3.0 MANAGEMENT AND ADMINISTRATIVE ISSUES

3.1 PERSONNEL

Tetra Tech had several noteworthy personnel changes during FY 2015. With the increased LOE necessary for WO-LT-0092, AESP hired two expatriates: a Construction Management Services Director and a DABS Liaison. With the increased LOE necessary for WO-LT-0090 and WO-LT-0092, AESP hired or backfilled expatriate positions: a Civil Lead, an Electrical Engineer, and a Scheduler.

In addition, the expatriate Transportation Specialist position was vacated and filled by an employee from Tt's Home Office. That Engineer finished his contract and the position was covered by the civil lead. The expatriate Technical Services Manager position was vacated and filled. The MIS manager finished her contract and the position was backfilled with a Tt employee. The Contracts Manager

position and the Finance Manager position were combined into a single Operations Manager position, which was vacated early in the year and subsequently filled. The Lead Electrical Specialist position for Power Engineers was vacated twice during the year, and has been backfilled with a Program Manager to initiate, implement, and manage the new QA and QC work orders.

There were also key changes in Local National Staff this year. Tetra Tech's local national (LN) Senior Subcontract Specialist received and accepted an offer from USAID. Tt's Internal Auditor, Civil Engineer, Architect, HR Manager, Assistant Facilities Manager, and IT Manager received their Special Immigration Visas (SIVs) and departed for the United States. These positions were posted and filled by the Financial Analyst, Civil Engineer, Civil Structural Engineer, HR Manager, Assistant Facilities Manager, and IT Manager, respectively. Additionally, the Buyer and one Administrative Assistant resigned, both positions were posted and filled. Also, Tetra Tech hired one Senior Mechanical Engineer to support the engineering team, especially for works at the Tarakhil Power Plant.

Early this year, Tetra Tech AESP promoted two LN Senior Engineers to the position of Project Engineer. These two engineers will lead the Electrical and Civil groups. Additionally, the accountant and the HR Administrative Assistant were promoted to financial analyst and HR Manager, and both the accountant and administrative assistant positions were filled. These staffing changes further illustrate AESP's commitment to capacity building; LN Managers are now running Tt Kabul's Finance, IT, Contracts, HR, and Facilities departments under the supervision of the expatriate Operations Manager. Tetra Tech AESP LNs received their annual performance evaluation. Most of the LNs received annual raises based on their performance.

During this year, Tetra Tech instituted a series of capacity building exercises. The exercises, which included both LN and Expatriate staff, focused on collaboration, efficient communication and public speaking. These exercises will continue throughout next quarter.

Gender equality plays an important role in staff planning at AESP. During FY 2015, Tt AESP maintained gender percentages of 68% Male and 32% Female employees. Tt AESP will continue to support USAID's gender equality and female empowerment directive through the remainder of the task order.

3.2 ADAPTION OF THE ACTIVITY

With the notice to proceed for WO-LT-0090 and the issue of the SOO for WO-LT-0092, AESP is shifting focus from design to construction oversight services. New emphasis on providing interim quality assurance (QA) and construction management oversight shifts AESP's primary focus from design work to QA and CM services. QA services for several existing USAID work orders, as well as any new work orders, will be covered under WO-LT-0090. Changing program focus necessitated additional staffing to provide the required level of service.

3.3 MODIFICATIONS AND AMENDMENTS

In FY 2015 AESP had two modifications to Contract No. EDH-I-00-08-00027-00 Task Order No 1: modification number 24 and modification number 25. Mod 24 revised the contract end date to November 8, 2015. This modification also clarified several salary and wages ambiguities in the contract. Mod 25 extended the contract end date to November 8, 2016, and provided increased LOE and budget for Year 7.

4.0 SUCCESS STORIES

Following is Tetra Tech AESP's Success Stories for FY 2015 about NEPS-SEPS, the Afghan Women's Internship Program, the ProjectWise Electronic Document Management System, and Quality Assurance Services.



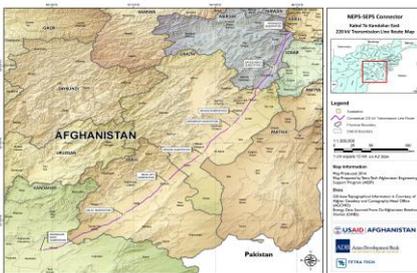
USAID
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AFGHANISTAN

SUCCESS STORY

Electricity for All in Afghanistan

USAID finishes NEPS-SEPS designs to create a backbone for power in Afghanistan



Map illustrating the location of the NEPS-SEPS connection. The included transmissions lines and substations will bring electricity to previously unreachable areas of Afghanistan.

After years of war and no electricity for many in Afghanistan, USAID has completed the base work for the NEPS-SEPS transmission connector; providing hope for change to those in the dark

Afghanistan's infrastructure has not fully recovered from the devastation of war. Coupled with little investment in infrastructure, only 41% of Afghanistan's citizens have access to reliable electricity. Most of these people live in large cities and the capital, Kabul. Thus, most rural Afghans are without power and the basics of modern life.

USAID has completed design plans repairing and extending the Northeast Power System (NEPS) in Northern Afghanistan and connecting it to the Southeast Power System (SEPS). This will create a new backbone for Afghanistan's power and bring electricity to people in rural areas who have never had electricity before.

Afghanistan does import energy from Uzbekistan and Tajikistan, however the two countries have energy systems that are incompatible. As a result, USAID had to develop intricate plans allowing these two systems to work together to extend power within Afghanistan between the two countries.

Design plans include the repair, expansion, and creation of approximately 450 kilometers of 220kV transmission line running from: Dasht-E-Barchi to Kandahar East. USAID has also designed 7 new 220kV/20kV substations from Arghghandi to Kandahar East which includes Sayedabad, Ghazni, Qarabagh, Moqor/Gelan, Shah Joy, Qalat, and Kandahar East substations.

These design packages are the outcome of 2 years of work. The construction of the project will begin in 2015 and is expected to be completed by mid-2018. In the end, USAID will have contributed over \$450 million towards stable power in Afghanistan.

Despite challenges with security, rough terrain, and a harsh winter season; at the completion of the project, thousands in Afghanistan will be able to turn on a light switch and enjoy stable electricity for the first time.

[Map: Hamayoon Amanzai]



USAID
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AFGHANISTAN

SUCCESS STORY

Women Engineering New Careers

USAID is creating a place for women engineers in both a male-oriented career field and society



[Photo: Tetra Tech AESP]

Interns inspect a power substation during a surveying lab as part of the Afghan Women Internship Program.

The third year of interns have graduated from USAID's Afghan Women Internship Program; giving women engineers the practical skills needed to be competent and competitive in the Engineering Field of Afghanistan.

During the time of the Taliban, women and girls were prohibited from going to school or seeking work outside of the home. As a result, many young women are still discouraged from partaking in careers which are rooted in the hard sciences. However, USAID is empowering women to pave their own way in the field of engineering and architecture with the Afghan Women Internship Program.

On January 15th, 2015 four women graduated from the program's third year. The Afghan Women Internship Program began in 2011. It provides the opportunity for 4 women in their last year of engineering studies to intern at a USAID partner's engineering firm.

Interns were given practical knowledge in engineering through: software training, labs, shadowing activities, personal instructions from professional engineers, and site visits. The internship provides the women with technical knowledge and experience which is lacking in their formal education. Thus, these women have the skills and knowledge to compete for jobs when they graduate.

USAID has a deep commitment to capacity building and gender equality. This program gives these women access to opportunities that were previously not available to women. 75% of past interns have gone on to have successful careers in private companies and within USAID implementing partner's offices.

"The internship program had a big impact on my life. It allowed me to find my strengths, trust my abilities, and take part in the development of Afghanistan" Zurwa Farhad, former intern and Architect.

In the end, the Afghan Women Internship Program, as part of the Afghanistan Engineering Support Program, illustrates USAID's commitment to capacity building by developing women to take part in building the future of Afghanistan.



USAID
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AFGHANISTAN

CASE STUDY

Collaboration Out of Construction Chaos

USAID has adopted collaborative software to ensure quality in Afghanistan's Electrical Construction Projects



[Insert Photo Credit]

EDMS Users partake in an interactive EDMS Software training to learn how to use the technology to increase cooperation among stakeholders.

CHALLENGE One of USAID Afghanistan's primary goals has been to expand the energy grid to provide electricity to thousands of Afghans currently living without power. The solution has been the Power Transmission Expansion and Connectivity (PTEC) Program which constructs and expands electricity infrastructure throughout the country. Currently, the majority of design work has been completed and the projects are entering the bidding and construction phases. At least seven major projects will begin in the near future. Worth an estimated \$400,000,000, the projects will be implemented in some of the most dangerous and challenging construction environments in the world. Moreover, PTEC implementation will require cooperation with Afghan Government Ministries, construction contractors, construction managers, and QA and QC organizations. Creating a means for multiple stakeholders to collaborate is critical to successful project implementation.

INITIATIVE In order to promote collaboration and better project management amongst local parties, USAID has adopted an Electronic Document Management System (EDMS). The EDMS allows all stakeholders to collaborate on construction drawings, specifications, inspection reports, and PTEC related documents. This system effectively ensures that all parties are working with and have access to the same documents, while providing a wide range of tools for analyses and audits. These tools are used to improve the capacity of local implementers, who utilize the software to manage large construction projects. For the past four months, extensive planning and setup has taken place to create a space where once disjointed stakeholders can efficiently share information.

RESULTS USAID has completed the set-up of the entire EDMS System, allowing stakeholders to access a network of information. To date, 30 users have been trained and are using the software. Another 10 users are scheduled to be trained in the upcoming weeks. It is anticipated that with more projects entering the implementation phase, the number of users will more than double, allowing for increased cooperation, file sharing, and program analysis. Stakeholders will use EDMS to ensure that construction projects are implemented according to the upmost quality standards, while maintaining schedule and budget.

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SUCCESS STORY

Project Quality Ensures Long-Term Impact

USAID is working with the GoA to provide high-quality infrastructure that will stand the test of time.



[Photo: Tetra Tech AESPI]

Project Site Inspectors examine a Transmission Line Tower during a site visit as part Quality Assurance Program.

23 Non-Conformance Reports have resulted in corrective action, creating better site quality and improved procedures for health and safety, schedule reporting, invoice processing and factory acceptance testing.

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In Afghanistan, only about 30 percent of the population has access to reliable sources of electricity. USAID is working with the Afghan national power company, Da Afghanistan Breshna Sherkat (DABS), to build electricity infrastructure that improves stability and create economic growth in the long-term. Due to the current security situation, providing oversight to ensure the quality of these projects is increasingly difficult. USAID's support of the Quality Assurance (QA) Program helps to ensure the sustainability of USAID supported infrastructure projects.

Since February 2015, the Quality Assurance Program has executed activities to ensure USAID-funded infrastructure development projects are structurally sound and built according to established engineering standards. This initiative works in partnership with the Government of Afghanistan (GoA) to improve their ability to manage and sustain infrastructure investments.

Under this program, USAID supports QA activities for the Power Transmission Expansion and Connectivity Program (PTEC), a flagship USAID initiative that will power Southern Afghanistan. Activities include visual inspection of work at the site as well as inspection of DABS on-budget contractor testing facilities, procedures and results. The contractor's work is spot-checked to ensure compliance with approved QA policies and procedures, as well as technical standards and construction schedules.

Since the beginning of the program, 34 Non-Conformance Reports have been issued to the contractor for the Arghandi-Ghazni Transmission Lines and Substations, 23 of which have resulted in corrective action by the contractor. As a result, site quality, health and safety procedures, factory acceptance testing, schedule reporting and invoice processing activities have been improved.

The long-term future of these projects is dependent on the level of quality with which they are prepared. The efforts of the Quality Assurance Program serve to ensure the long-term sustainability of USAID energy projects and the governing institutions that maintain and operate these facilities.

USAID Afghanistan

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