



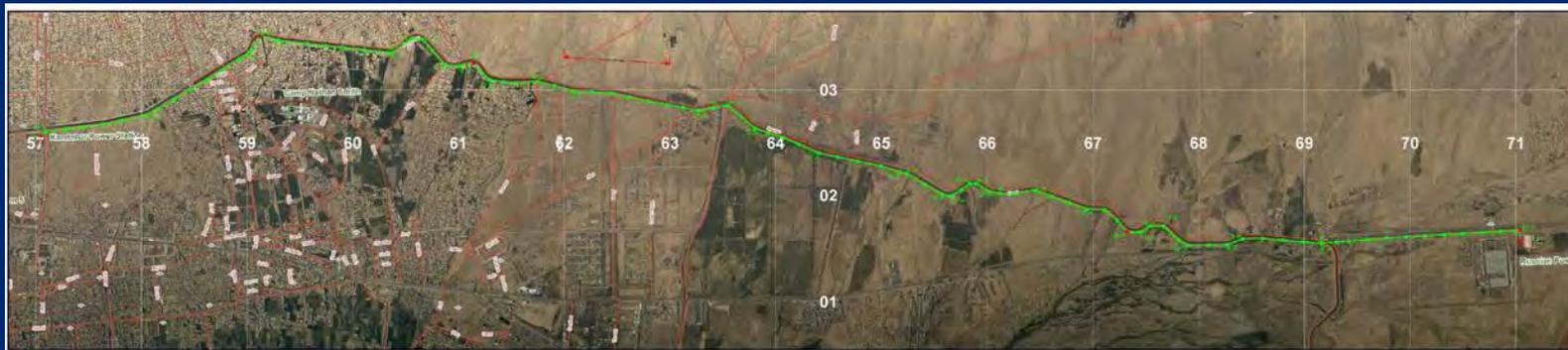
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Closeout Report

Kandahar Helmand Power Project (KHPP)

COMPONENT 1 SUB-COMPONENT 4

Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation (de-scoped).



Submitted by: Black & Veatch Special Projects Corporation (BVSPC)
Federal Services Division
Kandahar Helmand Power Project (KHPP)
USAID Contract Number 306-C-00-11-00506-00

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

Submittal Date: 28 January 2014

Table of Contents

1	KANDAHAR HELMAND POWER PROJECT (KHPP) OVERVIEW	4
1.1	KHPP Background.....	4
1.2	KHPP Summary of Scope of Work	5
1.3	KHPP Contract Evolution.....	7
2	COMPONENT 1 SUB-COMPONENT 4: CONSTRUCT A TRANSMISSION LINE BETWEEN THE KANDAHAR BRESHNA KOT SUBSTATION AND THE NEW KANDAHAR EAST SUBSTATION	9
2.1	Objective	9
2.2	History	10
2.3	Component 1 Sub-Component 4: Task and Deliverables Modifications and Change Order History	10
2.4	Milestones	11
2.5	Deliverables.....	12
3	PROJECT EXECUTION	13
3.1	Organizational Structure and Management Details.....	13
3.2	Execution of Work	17
3.3	Subcontracts and Major Procurements.....	18
3.4	Budget Expenditures	18
3.5	Government Property Summary	18
4	PHYSICAL COMPLETION OF THE WORK	18
4.1	Documentation of Completion.....	18
4.2	Photo Album.....	18
5	SUSTAINABILITY	19
6	FINAL SCHEDULE.....	19
7	SECURITY PLAN AND INCIDENT REPORT	19
8	SAFETY AND HEALTH PROGRAM PLAN	19
9	QUALITY CONTROL PROGRAM AND PLAN	19
10	ENVIRONMENT CONTROL.....	19
11	STATEMENT OF PATENTS, ROYALTIES OR CLASSIFIED MATERIALS	19
12	VALUE ENGINEERING CHANGES.....	20
13	ENHANCING BEST PRACTICES (LESSONS LEARNED)	20
14	WARANTY	20

15 OUTSTANDING ISSUES	20
16 CONCLUSION: IMPACT ASSESSMENT	20
17 DEVELOPMENT EXPERIENCE CLEARINGHOUSE (DEC)	20

List of Tables

Table 1: History of Changes in USAID Contract No. 306-C-00-11-00506-00.....	7
Table 2: Component 1, Subcomponent 4 – USAID Contract Modification History	10
Table 3: Component 1, Subcomponent 4 – Milestone Events Scheduled and Achieved	12
Table 4: Component 1, Subcomponent 4 – Contract Deliverables	12
Table 5: Component 1, Subcomponent 4 – Financial Summary.....	18

List of Attachments

#	Description	Status	In Closeout Package?
a-01	Contract Closeout Procedures Manual (CCPM)	Complete	Yes – in CLIN 3
a-02	Security Plan (Section F.4.B(A)) - Site Specific	Complete	Yes – in CLIN 3
a-03	Implementation Plan - Work Plan (Section F.4.B-B)	Complete	Yes – in CLIN 3
a-04	Health and Safety Plan and Procedures (Section C.4.6; Section F.4.B-C)	Complete	Yes – in CLIN 3
a-05	Quality Control Plan (Section C.4.5; Section F.4.B-C)	Complete	Yes – in CLIN 3
a-06	Warranty Administration Plan (Section C.4.11; FAR 52.246.21)	Complete	Yes – in CLIN 3
a-07	Construction Manual (Section C.4.10)	Not Applicable	N/A
a-08	Construction Schedule (Section C.4.10; Section F.4.B-C) - CLIN Specific	Not Applicable	N/A
a-09	Photo Album	Complete	In Closeout Report
a-10	Small Business Utilization Subcontracting Plan (Section H.23; Section J - Attachment 19; FAR 52.219-8)	Complete	Yes – in CLIN 3
a-11	Operations and Maintenance Manuals (Section C.4.11; Section F.4.B-C)	Not Applicable	N/A
a-12	Performance Monitoring and Evaluation Plan - each Subcomponent, as stipulated by COR (Section C.4.13)	Not Applicable	N/A
a-13	Branding Implementation Plan (Section F.4 B,C; Section D.2)	Complete	Yes – in CLIN 3
a-14	Environmental Plan (Section H.16)	Complete	Yes – in CLIN 3
a-15	Environmental Compliance Documentation Schedule (Section H.16)	Complete	Yes – in CLIN 3
a-16	Environmental Closeout Report (Section H.16) - Site Specific	Not Applicable	N/A

a-17	Environmental Reports (Section F.4.B-C) -- Annual Reports until Mod 10 (16-Feb-2013), and then Quarterly Reports	Complete	Yes – in CLIN 3
a-18	Weekly Highlight Report (Section F.4.B-B)	Complete	Yes – in CLIN 3
a-19	Short Term Report - STTA Trip reports (Section F.4.B-B) - Site Specific	Not Applicable	N/A
a-20	Design Submittals (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-21	Inspection and Equipment Test Reports (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-22	Concrete Strength tests: Steel reinforcements test reports (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-23	Testing and Commissioning Report (Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-24	As-Built Construction Drawings (Section C.4.11; Section F.4.B-C) - Site Specific	Not Applicable	N/A
a-25	Training Reports (CLIN-Specific) - Site Specific	Not Applicable	N/A
a-27	Final Closeout Report (Section C.4.11; Section F.4.B-C)	Complete	Yes
Deliverables for Component 1 Sub-Component 4: Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation			
d-01	Proposed route for the Kandahar Breshna Kot to Kandahar East 110kV Transmission Line	Complete	Yes
d-02	Draft Engineer-Procure-Construct Request for Proposal Document for building of Transmission Line	Complete	Yes
c-05	Subcontract / Purchase Order Matrix which Indicates Closeout Status	Not Applicable	N/A
g-05	Request For Consent for Property Disposition	Not Applicable	N/A
g-06	USAID Final Disposition Instructions	Not Applicable	N/A
g-07	Complete & Submit Handover/Disposal documents to USAID	Not Applicable	N/A
m-01a	SUBSTANTIAL COMPLETION: 1) Certificate of Substantial Completion with Schedule of Defects (if applicable)	Not Applicable	N/A
m-01b	FINAL INSPECTION AND ACCEPTANCE 1) Final Punchlist (if applicable) 2) Final Completion and Acceptance Certificate 3) Draft Tripartite Agreement with Supporting Documentation	Not Applicable	N/A
m-01c	WARRANTY PERIOD & FINAL WARRANTY INSPECTION: 1) Warranty Certificate	Not Applicable	N/A
m-02	Prime Contract original signed copy in files KC	Complete	Yes – in CLIN 3
m-03	Copy of all Fully Executed Prime Contract Modifications and Change Orders in electronic folder	Complete	Yes – in CLIN 3
m-04	USAID Closing Statement Letter+ BV Response Letter	Not Applicable	N/A
m-05	Copy of Closeout Documentation (Require CO approval) - List of hard and soft copies handed over to USAID- signed off by USAID	Complete	Yes

1 KANDAHAR HELMAND POWER PROJECT (KHPP) OVERVIEW

1.1 KHPP Background

The purpose of the KHPP contract, issued by the United States Agency for International Development (USAID) on 9 December 2010, was to increase the supply and reliability of electrical power in the areas in southern Afghanistan served by the Southeast Power System (SEPS). Particular emphasis was given to the City of Kandahar. The contract was to support the SEPS reconstruction and thereby increase the quality of life of people in Kandahar and Helmand Provinces. The KHPP was conceived as a critical component of the U.S. Government's Counterinsurgency (COIN) strategy in Southern Afghanistan. KHPP is a part of a larger US Government sponsored program involving multiple USAID Implementers, the US Army Corps of Engineers (USACE) and other Donors to improve the SEPS and connect it with other electrical grids in Afghanistan.

A reliable sustainable electric power generation, transmission and distribution system in Kandahar and Helmand Provinces is an important objective of the Government of the Islamic Republic of Afghanistan (GIROA). The system is expected to fuel economic growth which is not possible currently especially in Kandahar City, the second largest city in Afghanistan and a center for education, healthcare, manufacturing, and transportation in Southern Afghanistan. Kandahar City has an electrical supply shortfall of at least 40 megawatt (MW) for its 850,000 residents.

SEPS as a system is composed of multiple generation islands, aged transmission and multiple distribution systems in Southern Afghanistan serving 380,000 of the 1.7 million people residing in the region. Diesel generator sets and the Kajaki Hydroelectric Power Plant (HPP) provide the majority of the electric power generation in the system. The 222 kM SEPS transmission system operates at 110 kilovolts (kV), medium voltage distribution at 20kV, and low voltage distribution at 400 volts (V). The largest power demand node within SEPS is Kandahar City.

The Kajaki HPP was the first significant generation source installed in SEPS. Supported by the US Government, Kajaki HPP came online in the mid-1970s. Prior to execution of the KHPP contract, its power arrived in Kandahar City via one, aged, 25 megavolt amperage (MVA) transformer located at the Kandahar Breshna Kot (BK) Substation. In 2003, USAID began rehabilitation of the Kajaki HPP. Today, it provides at peak production 32 MW (at high water periods) with 12 MW of power serving Kandahar City and 20 MW of power transmitted to the remaining distribution nodes served by the SEPS transmission backbone.

To supplement generation for Kandahar City during the Kajaki HPP rehabilitation, USAID facilitated the installation of fourteen (14) KTA-50 diesel generators at the Breshna Kot (BK) Substation in late 2003. In 2008, five (5) additional diesel generators owned by Da Afghanistan Breshna Moasessa (now known as Da Afghanistan Breshna Sherkat - DABS) were installed at BK. This was done to increase short term generation

capacity because the rehabilitation efforts at Kajaki HPP had been prolonged due to continued insurgent activities, and Kandahar City power supply was taking on increasing importance in ISAF's counter-insurgency (COIN) strategy in the area.

The Breshna Kot Substation diesel generators as of this report date have a combined generating capacity of 20.5 MW at peak due to new units either provided by or installed by USAID. These units consist of the 10.5 MW MTU units, 5 MW of aged derated KTA-50 units and 5 MW provided by aged derated QSK-60 units. The new 10.5 MW MTU units were installed and commissioned by the KHPP.

1.2 KHPP Summary of Scope of Work

The KHPP scope of work initially contained six (6) Components with ten (10) Sub-Components, outlined below, which, integrated with other work on SEPS, were designed with the purpose of increasing and improving the sustainability and reliability of electric supply provided by the SEPS:

Component 1. Improve Kandahar power distribution system

Sub-Component 1: Replace the Kandahar Breshna Kot Substation

Sub-Component 2: Refurbish Kandahar City Medium Voltage (MV) Distribution System

Sub-Component 3: Construct a new Kandahar East Substation to (1) enhance the reliability of the system serving Kandahar and (2) to serve as a receiving point for an expected link between the SEPS and the North East Power System (NEPS) which is Afghanistan's major source of lower cost imported power from the Central Asian Republics)

Sub-Component 4: Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation.

Sub-Component 5: Replacement of Aged Diesel Generators at the Breshna Kot Substation

Component 2. Build Durai Junction Substation

Sub-Component 1: Build a new substation at Durai Junction

Sub-Component 2: Procure equipment for additional substations

Component 3. Program Support and Program Management

Component 4. Transportation, installation, operation and maintenance of Kandahar (also known as Shorandam) Industrial Park Diesel Power Plant (also known as SIPD).

Component 5. Rebuild the Kajaki Dam Substation and local distribution system

Component 6. Installation and commission Kajaki Unit 2

- Sub-Component 1: Perform inventory assessment of Government Furnished Equipment (GFE)
- Sub-Component 2: Repair GFE, provide missing and additional new equipment for completing Kajaki Unit 2 installation
- Sub-Component 3: Install and commission Kajaki Unit 2

USAID issued the KHPP contract to Black & Veatch Special Projects Corp. (BVSPC) to provide engineering, procurement, construction, and all material, equipment and/or services necessary to successfully complete each of the Components and Sub-Components in accordance with the requirements of the contract.

BVSPC was tasked to develop appropriate engineering design and construction methodologies, and be responsible for procurement, design, construction, quality control, testing and commissioning, and to provide relevant warranties for each Component and Sub-Component and the support services needed to implement those activities (security, life support, ground and air movements, etc.). One of the key deliverables of the KHPP was sustainability of the infrastructure being developed, Drawing from previous Operation and Maintenance (O&M) training programs that BVSPC implemented on behalf of USAID through the Afghanistan Infrastructure Rehabilitation Program (AIRP), BVSPC was required to recommend, and in most instances implement, the training and skills development needed to sustain the efforts undertaken in this contract. In addition BVSPC was to provide spare parts' inventory necessary for DABS to perform the required operation and maintenance of installed equipment in each Component and its Sub-Component. These recommendations were in select instances to be submitted to USAID prior to initiation of the respective subcomponent and were to be based on the BVSPC assessment of the capability and intent of the recipient to carry out required operations and maintenance functions.

As KHPP was implemented the security situation in the Southern Region of Afghanistan changed. While Regional Command Southwest and the U.S. Marines achieved substantial success in clearing the Upper Sangin Valley in late 2011, enabling KHPP to execute the first contractor convoy to Kajaki in several years, the region was impacted by significant increases in anti-government activity in 2011 to 2012 as the GIRoA, with International Security Assistant Force (ISAF) support, increasingly imposed GIRoA control over the region. As a result, companies and organizations that were willing to work in the region significantly increased their pricing to accommodate higher risk by increasing their "risk premium" with their standard pricing and to accommodate higher security costs. In addition during 2011 within Afghanistan commodity costs and construction costs increased more rapidly than expected. The unexpected cost increases impacted all implementing agencies from KHPP to USACE and diminished the collective capability of all agencies involved to meet initial objectives. Recognizing that budgets would not allow delivery of all Components and Sub-Components, USAID in concert with Regional Command South, reviewed the KHPP program in mid-2011 to

determine what adjustments could be made to retain core program objectives that were aligned with COIN strategy, while cutting projected costs. The review resulted in the realignment and descoping of select project activities. The net result was the descoping of Sub-Components 1.3, construction of a new Kandahar East Substation and 1.4, construction of a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation, with the intent to transfer these activities to USAID's PTEC program then in development. In addition the scope of Subcomponent 1.2 was adjusted to eliminate planned additional connections to the Kandahar distribution system until such time as additional sustainable non-diesel based generation to supply additional customers could be brought to bear. (Kajaki Unit 2 and the NEPS to SEPS connection to bring lower cost imported hydropower)

The elimination of the substation at Kandahar East and the transmission line was accompanied by a realignment of Sub-Component 1.5, the placement of 14 MTU generators, representing 21MW of installed capacity at the Kandahar East location. With the implementation of the diesel power “bridging solution” in Kandahar City by US Forces Afghanistan, which added two (2) 10 MW diesel plants in early 2011 operating in separate island modes; and increasing concern about the sustainability of additional diesel generation within Kandahar City, the installation of the 14 MTU units was suspended until USAID could further assess the situation. After the adjustment of KHPP scope, all six (6) original Components remained in the contract, but with the original ten (10) Sub-Components reduced to eight (8).

1.3 KHPP Contract Evolution

Table 1 provides a history of the changes that have occurred in the Prime Contract between BVSPC and USAID as the needs and demands to adjust due to changing ground conditions in order to maximize benefits to the people of Afghanistan evolved.

Table 1: History of Changes in USAID Contract No. 306-C-00-11-00506-00

Contract	Date	Description
Initial Contract Award	09 Dec 2010	This contract will support US Agency for International Development (USAID), Afghanistan Mission's Kandahar Power Initiative (KPI)
Contract Modification 01	1 Feb 2011	The purposes of this modification was to add the following in section H, Special Provisions/Special Contract Requirements to the listed contract as follows: <ul style="list-style-type: none"> • Use of Synchronized Pre-deployment and Operational Tracker (SPOT) for Contractors Supporting a Diplomatic or Consular Mission Outside the United States (Supplement to FAR 52.225-19) • Serious Incident Reporting in Afghanistan and • Gender Integration Requirements
Contract Modification 02	17 Mar 2011	The purposes of this Modification was to: <ul style="list-style-type: none"> • Revise Section B.5 "Indirect Cost" based on BVSPC latest approved NICRA for FY2010. • Revise Section H.22 "Consent to Subcontracts" to incorporate the approved Subcontracting Plan dated February 28, 2011 • Change the project name from "Kandahar Power Initiative (KPI)" to "Kandahar Helmand Power Project (KHPP)"

Contract Modification 03	27 Jun 2011	<p>The purposes of this Modification was to:</p> <ul style="list-style-type: none"> • Incorporate the following clause: The contractor shall comply with and adhere to all USAID Afghanistan Implementing Partner Notices. Copies of the notices are provided to implementing partners at the time of issuance. Copies are also available upon request from your Cognizant Contracting Officer. • Remind the contractor of the recently issued Implementing Partner Notice No. OAA-IP- 2011 – 004 which incorporates Mission Order No. 201.04 entitled, "National Security Screening (Non- US Party vetting)".
Contract Modification 04	17 Jul 2011	<p>The purposes of this Modification was to:</p> <ul style="list-style-type: none"> • Incorporate no cost changes in the sections C and F • Incorporate the FAR Clause 52.209-9 under PART II – CONTRACT CLAUSES. SECTION I – CONTRAT CLAUSES
Contract Modification 05	19 Jul 2011	<p>The purpose of this Modification was to provide funding in the amount of [REDACTED] thereby bringing the total obligated amount to [REDACTED]</p>
Partial Suspension of Work	09 Aug 2011	<p>Partial Suspension of Work affecting:</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 3 • Component 1, Subcomponent 4 • Component 1, Subcomponent 5 • Component 4
Change Order – Scope of Work	08 Sep 2011	<p>SOW Changes affecting:</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 3 • Component 1, Subcomponent 4 • Component 1, Subcomponent 5 • Component 4
Change Order – Amendment 01	20 Sep 2011	<p>Changes affecting:</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 3
Change Order – Amendment 02	22 Sep 2011	<p>Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 5 - Diesel Generators
Change Order – Amendment 03	01 Oct 2011	<p>Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators • Extension of the Submission Deadline
Change Order – Amendment 04	13 Oct 2011	<p>Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Change Order – Amendment 05	16 Oct 2011	<p>Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Change Order – Amendment 06	22 Oct 2011	<p>Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 5 – Diesel Generators
Contract Modification 06	12 Nov 2011	<p>The purposes of this Modification are to:</p> <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Revise Section B.5 "Indirect Cost" based on BVSPC's approved provisional rates for FY2011 • Revise Sections C, F and J.
Change Order – Scope of Work	06 Feb 2012	<p>SOW Changes affecting</p> <ul style="list-style-type: none"> • Component 1, Subcomponent 1 • Component 1, Subcomponent 5

Contract Modification 07	26 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Modify PART I-THE SCHEDULE I. SECTION B-SUPPLIES OR SERVICES AND PRICE/COSTS, paragraph (c)
Contract Modification 08	29 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED] • Modify PART I-THE SCHEDULE I. SECTION B-SUPPLIES OR SERVICES AND PRICE/COSTS, paragraph (c)
Contract Modification 09	30 Sep 2012	The purposes of this Modification are to: <ul style="list-style-type: none"> • Correction to Modification 8 to Provide incremental funding in the amount of [REDACTED] thereby decreasing the total obligated amount from [REDACTED] to [REDACTED] • Provide incremental funding in the amount of [REDACTED] thereby increasing the total obligated amount from [REDACTED] to [REDACTED]
Partial Suspension of Work	28 Jan 2013	Partial Suspension of Work affecting: <ul style="list-style-type: none"> • Component 6, Subcomponent 3
Contract Modification 10	14 Feb 2013	The purposes of this Modification are to revise Sections B, C, F, H, I, J and contract attachments.
Contract Modification 11	29 Sep 2013	The purpose of this modification was to extend the period of performance from 30 September 2013 to 31 December 2013, revise budgets and to clarify deliverables in multiple sections
Contract Modification 12	24 Dec 2013	The purpose of this Modification was to add Subcomponent 6.4, Technical Assistance to USAID on Kajaki Unit 2 on budget implementation until 30 November 2015 and to extend all remaining SUBCOMPONENT to 28 February 2014.

See **Attachment m-03** for the documentation listed in the table above.

Throughout the implementation of KHPP, the key to effectiveness has been to maintain flexibility to meet new opportunity to enhance program impact as the theatre of operations in Southern Afghanistan changed. In partnership with USAID, BVSPC maintained significant flexibility and adjusted as needed and directed to deliver significant benefit to the people served by the SEPS.

2 COMPONENT 1 SUB-COMPONENT 4: CONSTRUCT A TRANSMISSION LINE BETWEEN THE KANDAHAR BRESHNA KOT SUBSTATION AND THE NEW KANDAHAR EAST SUBSTATION

2.1 Objective

The objective of Subcomponent 1.4 was to enhance the reliability of the electric system serving Kandahar and to serve as a link between the Breshna Kot substation and the new Kandahar East Substation.

2.2 History

The Kandahar East Substation was conceived as a critical component in needed to allow the NEPS-SEPS connection. As conceived it would be the first transmission interconnection which would eventually become a 110kV ring around Kandahar to enhance the supply and reliability of electric supply to Kandahar City and the surrounding region.

The Kandahar East to Breshna Kot Substation 110 kV transmission line was descoped in contract number 306-C-00-11-00506-00, Modification No. 06, as of November 10, 2011. The termination came about due to reconsiderations of cost of other Subcomponent and a review of where the KHPP funding could produce the maximum benefits to its overall COIN objectives. This occurred as the cost of all infrastructure projects in southern Afghanistan inclusive of KHPP, USACE and other Donors began being impacted by significant risk adders to prices due to the security issues in the region. A realignment of the direction of available funds and reconsideration of timing of all projects to enhance the SEPS led to the view that Kandahar East and the 110kV interconnection could be postponed and then resurrected at a future period under another mechanism.

2.3 Component 1 Sub-Component 4: Task and Deliverables Modifications and Change Order History

Table 2 indicates, by date, USAID Task and Deliverables modifications to Subcomponent 1.4. The final Tasks and resulting Deliverables agreed between USAID and BVSPC following modifications and change orders are provided in **bold** within Table 2.

Table 2: Component 1, Subcomponent 4 – USAID Contract Modification History

Source & Date	Task	Change & Date
Original Contract 09-Dec-10	Task i: Construct a 110 kV single circuit transmission line connecting the Kandahar Breshna Kot Substation and the new Kandahar East Substation. Length of the line is about 20 km.	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-11	Task i: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 4 (Construct a transmission line between the (Kandahar Breshna Kot Substation and the new Kandahar East Substation); all activities to include DABS coordination and planned aerial reconnaissance.	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task i: Delete Component 1, Subcomponent 4: Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation, tasks i-ii. This includes but is not limited to DABS coordination and consent for planned aerial reconnaissance provided via letter no. OAA-BVSPC-2011-00145 dated June 2, 2011.	Deletion Modified 12-Nov-11
Contract Modification 06	Task i: Delete Subcomponent 4, tasks i-ii. This includes but is not limited to DABS coordination and consent for planned aerial reconnaissance provided via letter no. OAA-BVSPC-2011-00145,	De-Scoped 14-Feb-13

12-Nov-11	dated June 2, 2011. Provided preliminary plans and survey information, as applicable that were developed and collected under this Subcomponent to the COTR not later than 31 December 2011.	
Contract Modification 10 14-Feb-13	This Subcomponent was de-scoped with the requirement that the Contractor provide all relevant right of way and route data and all engineering assessments undertaken as part of a close out report for Subcomponent 4.	
Original Contract 09-Dec-10	Task ii: Procure all associated equipment to include structures, Optical Fiber Composite Overhead Ground Wire, and insulators.	Suspension of Scope 09-Aug-11
Partial Suspension of Work Letter 09-Aug-11	Task ii: Effective the date of this letter, the Contractor shall suspend: Component 1 Subcomponent 4 (Construct a transmission line between the (Kandahar Breshna Kot Substation and the new Kandahar East Substation): all activities to include DABS coordination and planned aerial reconnaissance.	Deleted 08-Sep-11
Change Order – SOW of Work Changes 08-Sep-11	Task i: Delete Component 1, Subcomponent 4: Construct a transmission line between the Kandahar Breshna Kot Substation and the new Kandahar East Substation, tasks i-ii. This includes but is not limited to DABS coordination and consent for planned aerial reconnaissance provided via letter no. OAA-BVSPC-2011-00145 dated June 2, 2011.	Deletion Modified 12-Nov-11
Contract Modification 06 12-Nov-11	Delete Subcomponent 4, tasks i-ii. This includes but is not limited to DABS coordination and consent for planned aerial reconnaissance provided via letter no. OAA-BVSPC-2011-00145, dated June 2, 2011. Provided preliminary plans and survey information, as applicable, that were developed and collected under this Subcomponent to the COTR not later than 31 December 2011.	De-Scoped 14-Feb-13
Contract Modification 10 14-Feb-13	This Subcomponent was de-scoped with the requirement that the Contractor provide all relevant right of way and route data and all engineering assessments undertaken as part of a close out report for Subcomponent 4.	
Source & Date	Deliverables	Change & Date
Original Contract 09-Dec-10	Deliverable 1: Design completed – 5 Months following NTP	Deleted 12-Nov-11
Contract Modification 06 12-Nov-11	Deliverable 1: Subcomponent 4 has been deleted in its entirety	
Original Contract 09-Dec-10	Deliverable 2: Construction completed and line commissioned - 7 months following NTP for construction, NTE 14 months following NTP	Deleted 12-Nov-11
Contract Modification 06 12-Nov-11	Deliverable 2: Subcomponent 4 has been deleted in its entirety	

2.4 Milestones

Table 3 provides the milestone events applicable to Component # which were scheduled and achieved by the dates provided.

Table 3: Component 1, Subcomponent 4 – Milestone Events Scheduled and Achieved

Milestone	Original Schedule	Date
Contract Award, including Subcomponent 1.4	9 December 2010	
Partial Suspension of Work Letter Issued		9 Aug 2011
Change Order Issued: Scope of Work Change Deleting Subcomponent 1.4 from contract		14 February 2013
Closeout Report Filed for Subcomponent 1.4		19 June 2012
Closeout Report Accepted by USAID		8 Aug 2012 USAID Letter No. OAA-BVSPC-2012-00175)

2.5 Deliverables

As de-scoping was applied to Component 1 Subcomponent 4, the contract deliverables were eliminated. When eliminated USAID requested two additional deliverables to close the work accomplished under Subcomponent 1.4. Table 4 provides the original deliverables applicable to Component 1 Subcomponent 4 and the method by which their delivery was to be verified and the final deliverables requested with descoping. **Attachment d-01 and d-02** provide copy of these Deliverables.

Table 4: Component 1, Subcomponent 4 – Contract Deliverables

ACTIVITY NO.	DELIVERABLE	METHOD OF VERIFICATION	STATUS	ATTACHMENT
1	Design completed	U.S. Government (COTR) approval of design	Descoped	A-USAID Letter No. OAA-BVSPC-2012-00175
2	Construction completed and line commissioned	Witness of commissioning according to government approved commissioning plan.	Descoped	A-USAID Letter No. OAA-BVSPC-2012-00175
3	<u>Added with descoping:</u> Identification by map and a drawing of a proposed route for the Kandahar Breshna Kot to Kandahar East 110kV Transmission Line	Delivery of map and proposed route to USAID	Completed	d-01
4	<u>Added with descoping:</u> Provide the EPC RFP document which was under the in-house review process at the time of termination.	Submittal of EPC RFP to USAID	Completed	d-02

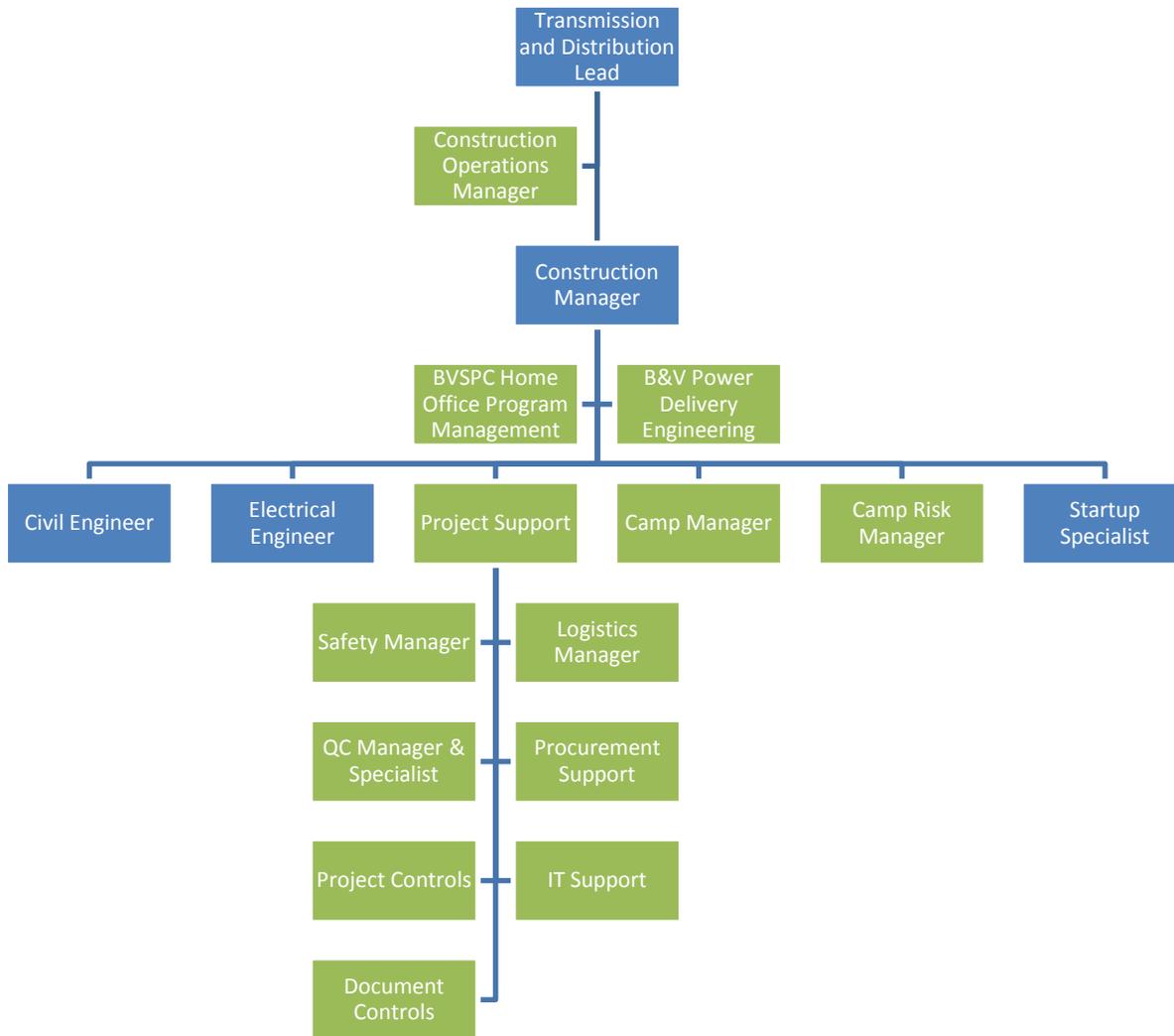
3 PROJECT EXECUTION

3.1 Organizational Structure and Management Details

Chart 1 below provides the organizational structure applied to the implementation of Component 1 Sub-Component 4. Following the chart the description of the positions indicated on the chart is provided.

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Chart 1: Organizational Structure of Component 1 Sub-Component 4 (Reference CLIN 3 to review the entire Chain of Command for KHPP)



3.1.1 Sector Lead – T&D

The Sector Lead was based at the KHPP Regional Camp office which was to be co-located with the East Substation. The Sector Lead assumed the overall responsibility for Subcomponent 1.4 implementation scope, schedule and budget and was responsible for all related subcontract management, client coordination and reporting, correspondence, invoice approval, mobilization of personnel, approval of home office personnel applied to Subcomponent 1.4 and other project management activities in coordination with KHPP Program Management.

3.1.2 Construction Manager

The Construction Manager would have reported directly to the T&D Sector Lead and was to be based at the KHPP Regional Camp. The Construction Manager was to be responsible for the execution of the project scope of work within schedule. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility during construction, budget and cost control, ensuring daily activities are in documented and reported in accordance with the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources, Sector Lead, Contracting Officer Representative (COR) and DABS officials located in Kandahar and Kabul.

3.1.3 Field Engineer Civil

The Field Engineer Civil would have reported directly to the Construction Manager and was to be based at the KHPP Regional Camp. The Field Engineer was to be responsible for the execution of the civil works of the project. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, civil design review to completion, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.1.4 Field Engineer Electrical

The Field Engineer Electrical would have reported directly to the Construction Manager and was to be based at the KHPP Regional Camp. The Field Engineer was to be responsible for the execution of the electrical works of the project. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, electrical design review to completion, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.1.5 Safety Manager

The Safety Manager reported directly to the Constructions Operations Manager and was based at the KHPP Regional Camp. The Safety Manager was

responsible for the safe execution of the KHPP scope of work. Additional responsibilities included; assistance with Job Hazard Analysis (JHA) as required, training of DABS staff in Safety and Health as part of oversight and assistance in the operation and maintenance of the facility, Safety and Health Inspections of the Work Site and ensuring daily activities are in accordance with the KHPP Safety Plan and the coordinating work effort with KHPP Program Management resources. On site Safety Management was by design to be undertaken daily by local Afghan Staff trained and overseen by the Safety Manager.

3.1.6 Quality Control (QC) Manager

The Quality Control Manager reported directly to the Constructions Operations Manager based at the KHPP Regional Camp. The QC Manager was to be responsible for the execution of the KHPP scope of work in accordance with the Three Phase QA program of the US Army Corps of Engineers (USACE), per Prime Contract requirements. Additional responsibilities included; oversight of materials and equipment testing and phased acceptance of completed work as meeting QA Plan requirements. The QC Manager was to maintain daily Inspections of the Work Site and ensure daily work activities are in accordance with the KHPP QC Plan while coordinating work effort with KHPP Program Management as well as USAID on-site inspection resources.

3.1.7 Document Control Specialist

The Document Control Specialist reported directly to the KHPP Deputy Chief of Party and was based at the KHPP Regional Camp. The Document Control Specialist was responsible for the control and proper archiving of all documents and reports applicable to the KHPP program. The Document Control Specialist would be working on multiple projects at the same time and ensure all staff were following proper filing protocols.

3.1.8 Startup Specialist

The Startup Specialist directly to the Constructions Operations Manager and was based at the KHPP Regional Camp when not on project sites. The Startup Specialist was responsible for oversight of the startup of facilities. Additional responsibilities included; implementation of DABS training for and oversight and assistance in the operation and maintenance of the facility, ensuring daily activities are reported and in accordance with the schedule and the Project Execution Plan, and the coordination of work effort with KHPP Program Management resources.

3.1.9 Camp Manager

The Camp Manager reported to the KHPP Life Support and Air Operations Manager and was based at the KHPP Field Office Located in Kajaki, Afghanistan. The Camp Manager was responsible for ensuring quality control of all life support functions at the project site.

3.1.10 In-Country Program Management Resources

In-Country Program Management Organization (PMO) resources include; Program Management, Finance, Contracts – Procurement - Compliance, Logistics, Security, Health & Safety, Environmental, Reporting, Quality Control, Project Controls, Document Controls and Human Resources. The PMO team was located in Kandahar, Afghanistan and made periodic visits to KHPP sites on an as-needed basis. The primary responsibilities of the PMO were to provide functional support to all Components in accordance with approved Execution Plans, KHPP Program, BVSPC Corporate and USAID established policies and procedures.

3.1.11 Home Office Program Management Resources

Home Office resources were available to perform project support throughout the duration of the KHPP program and would have supported Subcomponent 1.4. Home Office project management resources provided back reach support to field office support personnel in all support areas. In addition, accounting functions and monthly operational and financial reviews of the Project were performed at the Black & Veatch Special Projects Corporation, Federal Services Division Headquarters in Overland Park, Kansas, USA.

3.1.12 Home Office Engineering Resources

Home Office Engineering resources includes; civil, structural, electrical, and control and protection engineers, as well as drafters, and technicians. The primary responsibilities of the Home Office Engineering Resources are to provide design and engineering for the electric distribution system analysis, the new substation, the new transmission line for connecting to the existing line, and to specify the distribution materials needed for DABS to perform the system expansion and improvement work. Home office engineering resources wrote the technical requirements to procure construction services necessary to build facilities and to procure materials for all projects. This work is provided in accordance with approved plans, policies and procedures.

3.2 Execution of Work

The implementation of the work under Component 1 Sub-Component 4 prior to its termination achieved the following;

- A Final Conceptual (approximately) 20 km Route layout of the Kandahar East to Breshna Kot substation 110 kV transmission line. (**Attachment d-01**)
- Component 1 Subcomponent 4 was descoped immediately prior to the release of a Request for Proposal (RFP) to Engineer, Procure and Construct (EPC) the transmission line. (**Attachment d-02**)

3.3 Subcontracts and Major Procurements

No subcontracts or procurements were executed due to subcomponent descoping.

3.4 Budget Expenditures

A financial summary of Component 1 Subcomponent 3 is provided in Table 6 below:

Table 5: Component 1, Subcomponent 4 – Financial Summary

	Budget	Costs Incurred Up To Descoping	Remaining Budget
TOTAL COST (Including Fee)	██████████	██████████	██████████

*Remaining budget was and continued to be part of the overall Component 1 budget as the Prime Contract between BVSPC and USAID was budgeted at a CLIN level.

3.5 Government Property Summary

No government property procured due to subcomponent descoping.

4 PHYSICAL COMPLETION OF THE WORK

4.1 Documentation of Completion

The submission of the Closeout Report on 19 June 2012 and its acceptance by USAID on 8 Aug 2012 (USAID Letter No. OAA-BVSPC-2012-00175) represents the physical completion of the project. BVSPC did not engage in any site activities under Subcomponent 1.4 due to descoping.

4.2 Photo Album

The main photos all related to the proposed route for the transmission line (see below):



Proposed Transmission Line Route



Proposed Transmission Line Route

5 SUSTAINABILITY

Not applicable given descoping.

6 FINAL SCHEDULE

There was no final schedule for Subcomponent 1.4 due to descoping.

7 SECURITY PLAN AND INCIDENT REPORT

BVSPC operated under a program-wide **Security Plan** (See CLIN 3 Closeout Report **Attachment a-02**) that was managed and coordinated by the BVSPC Security Manager. There were no security incidents affecting Subcomponent 1.4 prior to its descoping.

8 SAFETY AND HEALTH PROGRAM PLAN

BVSPC operated under a program-wide **Health and Safety Plan and Procedures** (See CLIN 3 Closeout Report **Attachment a-04**) that was managed by the BVSPC Health and Safety Manager. There were no safety incidents reported under Subcomponent 1.4 prior to descoping.

9 QUALITY CONTROL PROGRAM AND PLAN

BVSPC operated under a project-wide **Quality Control Plan** (See CLIN 3 Closeout Report **Attachment a-05**). Given descoping there were no QC efforts undertaken for this Sub-Component.

10 ENVIRONMENT CONTROL

Environmental considerations and reports related to overall project execution are included in **Attachments a-14, a-15 and a-17** of CLIN 3 Closeout Report. No environmental reports were issued related to Subcomponent 1.4 due to descoping.

11 STATEMENT OF PATENTS, ROYALTIES OR CLASSIFIED MATERIALS

There were no patents, royalties or classified materials obtained or generated under the activities of Subcomponent 1.4 prior to its descoping.

12 VALUE ENGINEERING CHANGES

Value engineering changes could not be identified or implemented during the short course of Subcomponent 1.4.

13 ENHANCING BEST PRACTICES (LESSONS LEARNED)

Best practices were applied to the tender development which was utilized throughout the implementation period of the KHPP.

14 WARRANTY

No Warranty applies.

15 OUTSTANDING ISSUES

There are no outstanding issues related to the completion of Subcomponent 1.4.

16 CONCLUSION: IMPACT ASSESSMENT

USAID has determined with the descoping all contractual requirements applicable to this Subcomponent have been met. An impact assessment was not performed due to descoping.

17 DEVELOPMENT EXPERIENCE CLEARINGHOUSE (DEC)

Documents to be submitted to the DEC which result from the implementation of Component 1 Subcomponent 4 are listed below:

1. Final Closeout Report for Subcomponent 1.4