



STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
Bureau for Public Health

Bill J. Crouch
Cabinet Secretary

Office of Environmental Health Service

Rahul Gupta, MD, MPH, MBA, FACP
Commissioner
State Health Officer

MEMORANDUM

TO: Marie Prezioso, Chairman, Funding Committee
WV Infrastructure and Jobs Development Council

THROUGH: Patrick M. Murphy, P.E., Director
Environmental Engineering Division *PM*

FROM: Robert W. DeCrease, P.E. *RWD*
Water Technical Review Committee

DATE: July 24, 2018

RE: Request for Use of Contingency
Clay County PSD
Distribution System Upgrades
IJDC Project No.: 2015W-1597

REQUEST:

Clay County PSD is requesting to utilize \$218,425 of the remaining IJDC contingency money to fund SCADA replacement/upgrade that was previously approved with underrun funds in August 2017 as seen in the attached prior technical review

RECOMMENDATION:

The Technical Review Committee believes there are no technical issues related to this request and therefore recommends review and approval by the IJDC Funding Committee.



July 10, 2018

Mr. Brandon Crace
WV Infrastructure & Jobs Development Council
1009 Bullitt Street
Charleston, WV 25301

**Re: Clay County PSD
Pack Fork & Independence Road
Waterline Extensions
WVIJDC Project No. 2015W-1597**

Dear Mr. Crace:

Attached you will find Change Order No. 3 with Famco, Inc. to replace the existing Clay County PSD SCADA system. This work will be accomplished with previously approved bid underrun funds. We offer the following supporting information for this proposal:

- 1) The most economical method of procurement would be by change order with Contractor as this will eliminate the need for advertising and preparation of bid documents and detail specifications by the Engineer. Also, there appears to be only one satellite system on the market today, which is High Tides Technology, so only single source is available.
- 2) The PSD currently has a radio telemetry system installed in 2006 which is obsolete and very problematic due to the terrain in Clay County. The current project has a remote constant run booster station in the Holcomb Hill area of southern Clay County, and satellite telemetry is the only viable communication option for controlling and monitoring from field testing. The location is extremely remote, no cell service is available, and radio is not feasible due to terrain.
- 3) A hybrid system consisting of satellite and cell phone telemetry appears to be the most economical alternative to replacing the PSD's existing system primarily due to terrain, as well as it requires much less infrastructure at each site and the system will be an internet based system accessible with a smart phone or tablet as long as internet service is available. This internet based system will eliminate the need for Clay County PSD to maintain, upgrade, and replace a local server.

The change order also includes a 120 day extension to the construction contract to complete this additional work.

200 Sixth Avenue
Saint Albans, WV 25177

304.727.5501
304.727.5580 Fax

Buckhannon, WV
Lexington, KY

www.chapttech.com



Mr. Brandon Crace
Page Two
July 10, 2018

Should you require any additional information, or have any questions, please do not hesitate to contact me at (304) 727-5501 or gbelcher@chaptech.com.

Sincerely,

CHAPMAN TECHNICAL GROUP

Robert G. Belcher, PE
Vice-President

CHANGE ORDER

Distribution:		
OWNER	<u> X </u>	FIELD <u> </u>
ENGINEER	<u> X </u>	
CONTRACTOR	<u> X </u>	

PROJECT: Clay County Public Service District
 Pack Fork & Independence Road
 Contract No. 1

CONTRACTOR:
 Famco, Inc.
 3450 16th Street
 Huntington WV 25701

CHANGE ORDER NO.: 3
 INITIATION DATE: June 22, 2018
 ENGINEER'S PROJECT NUMBER: 14050
 CONTRACT DATE: 9/20/17
 CONTRACT FOR: Distribution System Extension

You are directed to make the following changes in this Contract:

- 1 Furnish and install satellite and cellular telemetry to replace the District's existing obsolete radio telemetry system for six (6) water storage tanks and eight (8) booster pump stations including the Holcomb Ridge Booster Station constructed with the original project for the lump sum price of \$218,425.39. Refer to attached proposal from Famco, Inc. dated June 25, 2018 for a breakdown of costs and the time extension request of 120 days to accomplish such additional work.

Not valid until signed by both the Owner and Engineer. Signature of the Contractor indicates his agreement herewith, including any adjustment in the Contract Sum or Contract Time, and the Contractor hereby waives the right to claim any delays as a result of this Change Order.

The Original Contract Sum was	\$	1,969,028.50
Net change by previously authorized Change Orders is	\$	22,945.50
The Contract Sum prior to this Change Order was	\$	1,991,974.00
The Contract Sum will be increased by this Change Order by	\$	218,425.39
The new Contract Sum including this Change Order will be	\$	2,210,399.39
The Contract Time will be increased by 120 days		
Therefore, the Date of Final Completion is	<u>December 21, 2018</u>	

Authorized:

Chapman Technical Group
 ENGINEER
 200 Sixth Avenue
 Address
 St. Albans, WV 25177

FAMCO, INC.
 CONTRACTOR
 P. O. Box 1577
 Address
 Huntington, WV 25716

Clay County PSD
 OWNER
 P. O. Box 130
 Address
 Clay, WV 25043

By *Robert G. Belcher*
 Robert G. Belcher, PE

By _____
 Richard C. Smailes, President

By *Teddy Underwood*
 Teddy Underwood, Chairman

Date 7-10-18

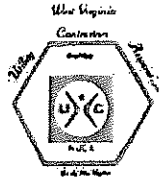
Date _____

Date 7-10-18

FAMCO, INC.
GENERAL CONTRACTORS

3450 16TH ST. ROAD P.O. BOX 1577
(304) 529-3328 FAX NO. 529-3325

HUNTINGTON, WEST VIRGINIA 25716



6/25/18

Chapman Technical Group
200 Sixth Avenue
St. Albans, WV 225177
Attn: Mr. Greg Belcher, P.E.

Re: Clay County PSD -
Water System
Improvements
Contract # 1- Quote
New Telemetry
System

Dear Sir;

As per your request Famco, Inc. will furnish and install the New Satellite and Cellular Telemetry System for the sites listed below for the lump sum price of \$ 218,425.39. A time extension of 120 days will be required to complete this change order. A breakdown of this cost is seen below :

Telemetry System	\$ 183,070.00
O H & P @ 15%	27,460.50
BOND & INS. @ 3.75%	7,894.89

Total \$ 218,425.39

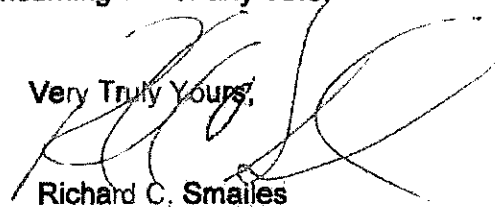
Individual Telemetry Site Pricing Recap :

Ivydale Booster Pump RTU	\$ 12,145.00
Ivydale Tank & Booster RTU	\$ 16,745.00
Triplett Ridge Tank & Booster RTU	\$ 16,745.00
Addair Booster RTU	\$ 11,175.00
Triplett Ridge Booster RTU	\$ 12,145.00
Hartland Booster RTU	\$ 12,145.00
Hartland Tank RTU	\$ 14,205.00
Fola Booster RTU	\$ 12,145.00
Fola Tank RTU	\$ 13,505.00
Holcomb Booster RTU	\$ 12,145.00

Holcomb Hill Tank RTU	\$ 13,505.00
Independence Booster RTU	\$ 12,145.00
Independence Tank RTU	\$ 13,145.00
New Constant Pressure Booster RTU	\$ 11,175.00
<hr/>	
Total	\$ 218,425.39

If you have any questions or comments concerning this or any other matter please feel free to call us at any time.

Very Truly Yours,



Richard C. Smailes

CLAY CO PSD TELEMETRY	DESCRIPTION OF COMMUNICATION SYSTEM AT EACH SITE
SITE NAME	TYPE OF TELEMETRY SELECTED
IVYDALE TANK AND BOOSTER	IRIDIUM SATELLITE
IVYDALE BOOSTER	IRIDIUM SATELLITE
TRIPLETT RIDGE TANK AND BOOSTER	VERIZON CELLULAR
ADDAIR BOOSTER	IRIDIUM SATELLITE
TRIPLETT RIDGE BOOSTER	VERIZON CELLULAR
HARTLAND BOOSTER	VERIZON CELLULAR
HARTLAND TANK	IRIDIUM SATELLITE
FOLA BOOSTER	VERIZON CELLULAR
FOLA TANK	IRIDIUM SATELLITE
HOLCOMB BOOSTER	VERIZON CELLULAR
HOLCOLM HILL TANK	VERIZON CELLULAR
INDEPENDENCE BOOSTER	IRIDIUM SATELLITE
INDEPENDENCE TANK	VERIZON CELLULAR
NEW CONSTANT PRESSURE PBS	IRIDIUM SATELLITE

NOTE: SITES WILL BE TESTED AT START UP. TYPE OF COMMUNICATION AT CERTAIN SITES MAY BE REVISED WITHOUT COST TO OWNER.

CHANGE ORDER

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 OWNER X FIELD _____
 ENGINEER X
 CONTRACTOR X

PROJECT: Clay County Public Service District
 Pack Fork & Independence Road
 Contract No. 1
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 3450 16th Street
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Chapman Technical Group
ENGINEER
 200 Sixth Avenue
 Address
 St. Albans, WV 25177

FAMCO, INC.
CONTRACTOR
 P. O. Box 1577
 Address
 Huntington, WV 25716

Clay County PSD
OWNER
 P. O. Box 130
 Address
 Clay, WV 25043

By Robert G. Belcher
 Robert G. Belcher, PE

By Richard C. Smailes
 Richard C. Smailes, President

By Teddy Underwood
 Teddy Underwood, Chairman

Date 7-10-18

Date 7-11-18

Date 7-10-18



STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
BUREAU FOR PUBLIC HEALTH
OFFICE OF ENVIRONMENTAL HEALTH SERVICES

Jim Justice
Governor

Bill J. Crouch
Cabinet Secretary

MEMORANDUM

TO: Marie Prezioso, Chairman, Funding Committee
WV Infrastructure and Jobs Development Council

FROM: Robert W. DeCrease, P.E. *RWD*
Water Technical Review Committee

DATE: August 29, 2017

RE: Request for Use of Bid Underrun Funds
Clay County PSD
Pack Fork and Independence Road Waterline Extension
IJDC Project No.: 2015W-1597

REQUEST:

Clay County PSD opened bids on June 15, 2017, with the bids coming in under budget by \$487,971. Clay County PSD requests to utilize \$487,791 of the bid underrun as described in the table below:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>*COST ESTIMATE</u>
1	Holcomb Ridge Booster Station Upgrade	\$45,000
2	Increase Portable Generator Size at Holcomb Ridge Booster Station	\$35,000
3	Purchase Portable Generator	\$75,000
4	Electrical Work at Existing Booster Station	\$30,000
5	SCADA Replacement/Upgrade	\$225,000
6	Inspection/Cleaning of 6 Existing Storage Tanks	\$20,000
7	Purchase Approx. 200 Touch Read Meters	\$65,000
8	Purchase Handheld Data Collector for Use with Radio and Touch Read Meters	\$15,000
9	Purchase Mini Excavator with Trailer	\$55,000
	TOTAL:	\$565,000

*Cost Estimate includes additional engineering services.

The items described in the table above are estimated to cost more than the amount of the bid underrun. The Clay County PSD will only utilize the underrun amount and complete as many of the items listed above as the underrun funds will allow.

Clay County PSD
Project No.: 2015W-1597
August 29, 2017
Page Two

RECOMMENDATION:

The Technical Review Committee believes there are no technical issues related to this request and therefore recommends review and approval by the JJDC Funding Committee.

Uses of Funds (Prioritized):

1. Increase size of Holcomb Ridge booster station included in the project in order to reduce water main size to help avoid water quality issues, and place within a heated enclosure - est. cost: \$45,000
2. Increase portable generator size for the Holcomb Ridge booster station accordingly to accommodate increased size of booster station from 5 HP motors to 7.5 HP motors - est. cost: \$35,000
3. Purchase portable generator to be used at the District's existing booster stations during loss of power - est. cost: \$75,000
4. Electrical work at existing booster stations to install double throw safety switch and outlet compatible with portable generator pigtail - est. cost: \$30,000
5. Replace the District's existing aged SCADA system for 6 water tanks and 8 booster pump stations with up to date technology - est. cost: \$225,000
6. Inspect and clean 6 existing water storage tanks constructed from 1992 through 2006, never been cleaned or inspected - est. cost: \$20,000
7. Purchase approximately 200 touch read water meters to replace existing 20 year old direct read meters - est. cost: \$65,000
8. Purchase a handheld data collector and Bluetooth transceiver for use with radio read and touch read meters - est. cost: \$15,000
9. Purchase mini-excavator with trailer for maintenance work - est. cost: \$65,000

Total Estimated Cost of above items: \$565,000



CLAY COUNTY COMMISSION

P.O. BOX 190
CLAY, WEST VIRGINIA 25043

CONXIE W. WORKMAN, Clerk
Phone: 304-587-4259
Fax: 304-587-7308

Members:
ARLENE TUCKER, Commissioner
JERRY LINKINSBOR, Commissioner
MIKE PIERSON, Commissioner

August 9, 2017

Mr. Tim Keegan, Executive Director
WV Infrastructure & Jobs Development Council
1009 Bullitt Street
Charleston, West Virginia 25301

**Re: Clay County PSD 2015W-1597 Pack Fork and Independence Road
Waterline Extension**

Dear Mr. Keegan,

The Clay County Commission, which has supported this project by applying and receiving the HUD-Community Development Block Grant and the Appalachian Regional Commission funds in the amount of \$2,260,000.00 to provide potable water to the residents of Pack Fork and Independence Road, concurs with the request of the Clay County Public Service District to retain their bid underrun funding to provide needed essential improvements for the District. These are WV Infrastructure Loan funds that could be returned if not used and approved to lower the balance of the borrowed funds.

Please consider this request. If you have any questions, please contact me at 304-587-4259 or claycoclerk@hotmail.com.

Respectfully

Alex G. Fitzwater
President

cc: Regional Intergovernmental Council
WV Development Office
Chapman Technical Group

Clay County PSD Pack Fork and Independence Road 2015W-1597 Budget for Binding Commitment		IJDC District 2 Loan	SCBG	ARC Grant	Match Totals	
		\$740,000.00	1,500,000.00	760,000.00		
	TOTAL	Starting Balance	Starting Balance	Starting Balance		
Construction						
	Contract 1 and All 3 Add Alt	\$1,969,028.50	\$74,155.00	\$1,134,873.50	\$760,000.00	\$1,969,028.50
	TOTAL	\$1,969,028.50	\$74,155.00	\$1,134,873.50	\$760,000.00	\$1,969,028.50
Technical Services						
	Preliminary Engineering	\$39,000.00		\$39,000.00		\$39,000.00
	Design	\$57,000.00		\$57,000.00		\$57,000.00
	Planning	\$0.00		\$0.00		\$0.00
	Engineering During Const	\$31,000.00	\$0.00	\$31,000.00		\$31,000.00
	Inspection	\$156,000.00	\$71,171.50	\$64,828.50		\$156,000.00
	Special Services	\$38,000.00	\$0.00	\$38,000.00		\$38,000.00
	Asset Management	\$0.00				
	TOTAL	\$318,000.00	\$71,171.50	\$247,828.50	\$0.00	\$319,000.00
Legal & Fiscal						
	Local Attorney	\$20,000.00	\$0.00	\$20,000.00		\$20,000.00
	PSC Attorney	\$5,000.00	\$5,000.00	\$0.00		\$5,000.00
	Interest During Construction	\$0.00	\$0.00	\$0.00		\$0.00
	Accountant	\$15,000.00		\$15,000.00		\$15,000.00
	Loan Repayment	\$0.00		\$0.00		\$0.00
	ROW Agent	\$10,500.00		\$10,500.00		\$10,500.00
	Land Acquisition & ROW	\$800.00	\$0.00	\$800.00		\$800.00
	TOTAL	\$51,300.00	\$5,000.00	\$46,300.00	\$0.00	\$51,300.00
Administrative						
	Project Administration	\$35,000.00	\$0.00	\$35,000.00		\$35,000.00
	Permits & Fees	\$35,998.00	\$0.00	\$35,998.00		\$35,998.00
	Legal Ads	\$0.00	\$0.00	\$0.00		\$0.00
	TOTAL	\$70,998.00	\$0.00	\$70,998.00	\$0.00	\$70,998.00
Contingency						
	Construction Contingency	\$86,202.50	\$86,202.50	\$0.00	\$0.00	\$86,202.50
	Other Additions	\$487,971.00	\$487,971.00	\$0.00	\$0.00	\$487,971.00
	TOTAL	\$574,173.50	\$574,173.50	\$0.00	\$0.00	\$574,173.50
Closing Costs						
	Funding Reserve	\$0.00		\$0.00		\$0.00
	Registrar Fees	\$500.00	\$500.00	\$0.00		\$500.00
	Bond Counsel	\$15,000.00	\$15,000.00	\$0.00		\$15,000.00
	Capitalized Interest	\$0.00		\$0.00		\$0.00
	TOTAL	\$15,500.00	\$15,500.00	\$0.00	\$0.00	\$15,500.00
	GRAND TOTAL	\$3,000,000.00	\$740,000.00	\$1,500,000.00	\$760,000.00	\$3,000,000.00

Clay County PSD Pack Fork Waterline Extension 2015W-1597		
Uses for Remaining Funds in Priority Order		
1	Increase Size of Booster Station to reduce water main size to help water quality issues	\$45,000.00
2	Increase Portable Generator Size at Booster Station	\$35,000.00
3	Purchase Portable Generator for existing 6 booster stations	\$75,000.00
4	Electrical work at 7 booster stations to conform and accept generator	\$30,000.00
5	Replace or Upgrade or both the aged SCADA system	\$225,000.00
6	Inspect 6 existing water storage tanks and clean	\$20,000.00
7	purchase 200 touch read water meters	\$65,000.00
8	Purchase hand held data collector and bluetooth transceiver. Current one is over 11 years old.	\$15,000.00
9	Purchase mini-excavator with trailer for maintenance	\$55,000.00
	(See list provided by Engineer and prioritized by Clay County Public Service District at their August 1st, 2017 District meeting.	
	TOTAL	\$565,000.00

Some of these items can be added by change order to the existing Construction Contract. Other items would have to be advertised and bid. The District would like to have the opportunity to retain these funds until closeout and if required, the funds could lower the loan balance with no change to the payment schedule. The Infrastructure Council would have approval on all items from the underrun prior to advertising.