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January 7, 2016

Jeff R. Derouen, Executive Director Kentucky Public Service Commission 211 Sower Boulevard Frankfort, Kentucky 40601

Case No. 2016-00037

RE: Certificate of Public Convenience and Necessity Gearheart Communications d/b/a Coalfields Telephone Company

Dear Director Derouen:

Attached for your review is an application submitted on behalf of Gearheart Communications d/b/a Coalfields Telephone Company for a Certificate of Public Convenience and Necessity for the construction of fiber-to-the-premises and additional network upgrades in in Floyd and Pike Counties.

As noted in paragraph 7 of the application, the company is still working with its vendor to complete the loan application documents that would otherwise provide information requested in 807 KAR 5:001 Section 15(e). To the extent that the Commission deems this information necessary, the company requests that this filing be deemed a request for waiver of those requirements at this time.

One (1) original application and ten (10) copies are included here. Also enclosed are two (2) complete sets of maps bearing the seal of its consulting engineer.

Please call or email me with any questions.

Sincerely,

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Eileen M Bodamer Gearheart Communications d/b/a Coalfields Telephone Company

Enc. Cc (email):

Jim Steven, KY PSC James Campbell, CTC



JAN 08 2016

PUBLIC SERVICE COMMISSION

RECEIVED

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

JAN 08 2016

PUBLIC SERVICE COMMISSION

In the Matter of:

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THE APPLICATION OF GEARHEART)
COMMUNICATIONS, INC. DBA COALFIELDS)
TELEPHONE COMPANY)
FOR A CERTIFICATE OF PUBLIC) Case No. 2016-00037
CONVENIENCE AND NECESSITY FOR THE)
CONSTRUCTION OF FIBER-TO-THE-PREMISE)
AND ADDITIONAL NETWORK UPGRADES IN)
FLOYD AND PIKE COUNTIES, KENTUCKY)

APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY FOR CONSTRUCTION OF FIBER-TO-THE-PREMISE AND ADDITIONAL NETWORK UPGRADES IN FLOYD AND PIKE COUNTIES, KENTUCKY

Pursuant to KRS 278.020 and 807 KAR 5:001, Gearheart Communications, Inc. dba Coalfields Telephone Company ("CTC") hereby submits this application for a certificate of public convenience and necessity ("CPCN") for the construction of Fiber-to-the-Premise ("FTTP") and additional network upgrades in Floyd and Pike counties, Kentucky.

1. Pursuant to 807 KAR 5:001 Section 14(1), contact information for CTC is as follows:

Gearheart Communications, Inc. dba Coalfields Telephone Company 20 Lanesville Road / P.O. Box 160 Harold, KY 41635-0160 Attn: James Campbell, CFO Tel: 606-479-6254 Email: jcamp@gearheart.com

 Pursuant to 807 KAR 5:001 Section 14(2) CTC is a Kentucky Corporation chartered as a corporation and in good standing. Registration and incorporation documents were provided in Case. 2013-00192 and are unchanged. 3. Pursuant to requirements of 807 KAR 5:001 Section 15(2)(a) the following information is provided to show that the proposed construction is required by public convenience and necessity:

Background

CTC is in independent local exchange carrier ("ILEC") serving approximately 5,500 access lines in the three exchanges of Harold, Wheelwright, and Grethel located in Floyd and Pike counties of eastern Kentucky. Like most ILECs in Kentucky, CTC relies on universal service to support advanced network services.

The FCC has tied ongoing receipt of those critical funds to increasingly higher broadband speeds.¹ Additionally, in January, 2014, the FCC opened a docket seeking to identify and address those items it deemed necessary in anticipation to transition to an all IP network.² In doing so, the FCC recognized that "Modernizing communications networks can dramatically reduce network costs, allowing providers to serve customers with increased efficiencies that can lead to improved and innovative product offerings and lower prices.³" Thus, CTC is under pressure from both its customers and FCC initiatives to prepare its network for the next generation of IP and very high speed Broadband services.

Justification for Project

CTC's Harold exchange is its geographically largest exchange and serves the majority of its business subscribers. Unlike its Wheelwright and Grethel exchanges, the Harold exchange suffers from long loop lengths limiting its ability to provide high speed broadband throughout its network. All three offices – even when not loop length restricted – are served by equipment that does not readily support VDSL, further limiting the company's ability to provide the broadband speeds demanded by its subscribers. The company's primary switch in Harold is ill-suited for the eventual conversion to an IP network and is already limiting the company in its ability to improve inter-exchange efficiencies. Lastly, the company lacks a full fiber backbone that would connect all of its exchanges to improve network performance, including reliability and recoverability.

To address the items the company applied for and received \$12,306,019 from the Rural Utility Service ("RUS") to complete three critical projects:

- 1. deploy FTTP in the Harold exchange;
- 2. upgrade central office and remote equipment in all three exchanges, including the deployment of a Soft Switch in its Harold exchange; and
- 3. complete the transport fiber backbone network connecting all three of its exchanges.

¹ Under its January 29, 2015, Report and Notice of Inquiry (FCC 15-10), minimum speeds are poised to increase to 25/3.

² Federal Communications Commission, "Order, Report and Order and Further Notice of Proposed Rulemaking, Report and Order, Order and Further Notice of Proposed Rulemaking, Proposal for Ongoing Data Initiative," Adopted: January 30, 2014; Released: January 31, 2014.

³ Order at paragraph 2.

In its application for the loan(s) necessary to fund the three goals of the project, CTC identified its anticipated expenditures in each of its exchanges to support the projects as follows:

Project	Exchange	Funding
FTTP	Harold	\$5,705,604
-	Harold	\$3,082,492
Equipment additions	Grethel	\$208,209
including Soft switch	Wheelwright	\$92,822
Dealahana	Harold	\$851,695
Back bone	Grethel	\$508,654
Total Projects		\$10,449,476
Engineering		\$1,856,543
Grand Total		\$12,306,019

As described herein, the fiber-to-the-premise ("<u>FTTP</u>") deployment will allow CTC to overcome the long loop lengths that limit broadband speeds available to its customers in its largest exchange. Its <u>equipment additions</u> will permit the company to add electronic equipment in all three exchanges readily supporting VDSL speeds and the efficiencies of a next-generation IP enabled network.

- 4. In response to **807 KAR 5:001 Section 15(2)(b)** CTC states that does not require franchise approval from any public authority to deploy the facilities described herein. Any highway or railway permits will be obtained prior to start of construction. The majority of this construction will be on private right-of-way way however CTC will also apply for KDOT permits should some private ROW be unavailable.
- 5. Pursuant to **807 KAR 5:001 Section 15(2)(c)** CTC provides the following information regarding the proposed construction:

Equipment additions, including a Softswitch

The loan funds requested for electronic equipment will consist of a new Metaswitch Softswitch and new Broadband Loop Carrier units along with subscriber ONTs and battery backups. CTC anticipates spending \$3,383,523 for the new switch and Broadband Loop Carrier (BLC) units. The company intends to deploy Adtran Total Access 5000 (TA5K) equipment in all three exchanges and a Metaswitch Softswitch at the Harold CO, subject to cost, anticipated performance, and ongoing inclusion on the RUS "List of Acceptable Materials" all of which will influence the final purchase decision.

Approximately seven (7) Broadband Loop Carrier units are expected to be deployed in two of the three exchanges that are part of this project. The pad mounted remotes will be placed where existing generator-equipped cabinets are located. The concrete pads will be extended for the fiber cabinets. Doing so eliminates any potential adverse environmental impact that would potentially violate RUS standards.

A detailed financial summary of proposed equipment expenditures in included in **Exhibit** 1 of this filing.

Outside Plant, including FTTP

CTC primarily utilizes a Gigabit Passive Optical Network (GPON) point to multipoint, fiber to the premise network architecture in which unpowered optical splitters enable a single optical fiber to serve multiple establishments, terminating in the Broadband Loop Carrier (BLC) unit and then to the Harold host switch. CTC will implement FTTP in the Harold exchange where broadband speeds are insufficient. The company intends to eventually complete a full fiber overlay to reach all subscribers within the service area not already served via fiber.

The Harold FTTP project will allow CTC to offer broadband service speeds of up to 1Gig based on its customer's requirements, while supporting Ethernet capability to the businesses, medical offices and governmental offices and educational institutions that provide employment throughout its operating counties. While CTC recognizes that the demand for 1Gig may not yet be universal, its FTTP deployment will allow the company to readily meet evolving speed requirements with upgrades in electronics using the existing fiber infrastructure.

The current local loop outside plant facilities in Harold consist of aerial, filled, paired, 22 and 24 gauge copper cables. Broadband speeds are restricted to the loop limits imposed by the existing copper facilities. Even in those few ideal situations – loop lengths less than 10,000 feet and assuming the highest quality copper – broadband speeds are *capped* at 10/1 Mbps. Despite the company's efforts to use its current copper network, it finds that it is no longer operationally or financially realistic to continue to do so as its copper plant has exceeded its useful life.

The existing transport routes in CTC are primarily aerial, due to the extensive rock in the CTC serving area. All existing wire centers in the Grethel, Harold and Wheelwright exchanges will be linked with full redundant routes of aerial fiber optic cable, with 24 fibers being the minimum size.

CTC proposes to upgrade the existing network of switches to enable features that will improve operating efficiency and expand service offerings. A fiber optic cable build is proposed to create a hybrid outside plant, utilizing the existing copper cable and the proposed fiber optic cable. The benefits of fiber optic cable over the traditional copper cable to the subscriber user is to provide a higher bandwidth capacity for the advanced data services along with a longer reach, longer life, resistance to outside interferences, lower maintenance costs, and better reliability.

CTC's entire service area has extensive copper cable being used for local plant; in the Harold exchange the copper plant is nearing its maximum utilization point. All of the

exchanges have been supplemented by the use of Broadband Loop Carrier (BLC) and as of year-end December 2014, an estimated 112.17 miles of fiber transport plant exists throughout the entire system.

The plan is to deploy a network capable of providing bandwidth of up to 1 Gbps in the Harold exchange, and 10 Mbps in the Grethel and Wheelwright exchanges (downstream). To do so, CTC will build FTTP in the Harold exchange so that all subscribers can receive bandwidth up to the 1 Gbps. All copper cable in the Harold exchange will be retired as part of this project.

In addition to gains in available broadband speeds, CTC anticipates that fiber optic cable will provide a longer reach, longer life, resistance to outside interferences, lower maintenance costs and better reliability over that obtained over copper.

As of the date of this design, there were 3,862 establishments passed in the Harold Exchange, necessitating 114.64 miles of distribution fiber for the FTTP build. The budget for deploying its FTTP network in Harold include fiber service drops to the optic network termination (ONT) that will be placed at the customer location to transfer the signal. The number of service drops is based on a 75% take rate of the total number of potential subscribers. It is estimated that 90% of the drops will be aerial, at a length of 300 feet, and 10% will be buried at a length of 200 feet.

In preparing the design for the CTC service area, consideration was given to designing buried plant where economical. The entire area is underlain with rock at shallow depths. Therefore, it was determined that building the proposed plant as aerial would be more for the following reasons:

- (1) Plowing cable in lieu of utilizing existing pole line routes would be impractical due to the steep, rugged terrain that is predominate in the area.
- (2) Relocating aerial service to buried routes along existing roadways would significantly increase the amount of cable that would be required.
- (3) An sufficient pole line system already exists that eliminate the need to disturb existing rights-of-way, thereby lessening the effect the proposed construction would have on the environment, a criteria used by RUS in evaluating loan applications.
- (4) Plowing cable in many locations would require an additional cost for the blasting of rock in order to place cable.

As plant is staked, buried construction will be considered wherever economics, routing, and demographics determine that buried plant is feasible. All existing fiber within the CTC service area is currently aerial. Construction of new pole lines for the placement of aerial cable will only be considered if there is a compelling engineering reason not to bury the cable.

CTC has maintained full productive use of its joint use agreements with the electric companies within its service area. Its relationship with its joint use providers has been

long term and stable with economically viable joint use rates and the companies have cooperated to avoid duplication of infrastructure.

A detailed financial summary of outside plant expenditures in included in **Exhibit 2** of this filing.

CTC hopes to begin construction as early as the first quarter of 2016 and to be completed in approximately five years. Customers will be migrated to the new FTTP facilities initially on an on-demand basis and then as warranted due to cost, maintenance, and other business considerations.

CTC has no competition for fixed broadband services in the proposed construction area.

- 6. Pursuant to **807 KAR 5:001 Section 15(2)(d)** two copies of the required maps, plan, specs and drawings are being included with this application as well as one copy in pdf format on compact disk.
- 7. Pursuant to **807 KAR 5:001 Section 15(e)** CTC plans to finance all proposed construction, engineering and electronics through a RUS "M" loan, including interim financing.

The company has requested a 20-year loan and while it has received approval for its request, including interim financing authority to spend \$1,052,000, the company is still working with RUS to complete the loan documents. Accordingly, while the company anticipates that its interest rate will be indexed to the Federal Financing Bank Act (12 U.S.C. 2285(b)) and the FFB Lending Policy, until it completes the execution of the loan document the company cannot state with certainty the information typically provided. The RUS letter regarding the loan and interim financing is included in **Exhibit 3** of this application.

To the extent that the Commission deems this information necessary, please consider this a request for waiver of the requirements of 807 KAR 5:001 Section 15(e) at this time. The company can provide additional information regarding the terms of the loan when it becomes available.

CTC does not anticipate any local telephone rate adjustments associated with the project *per se*. Because its ability to fund such projects, however, is contingent on its continued access to Universal Service Funding, CTC recognizes that changes implemented by the Federal Communications Commission could impose rate level requirements that the company, not currently a recipient of high cost loop support, may be required to meet in the future.

8. In response to **807 KAR 5:001 Section 15(f)** CTC has not estimated an ongoing cost of maintenance of the fiber upon completion. Upon information and belief, the company anticipates that its ongoing maintenance and provisioning costs will be no more than and likely less, than its costs for its current network.

Coalfields Telephone Company Application for a CPCN

Based on the foregoing, and in accordance with KRS 278.020, Gearheart Communications, Inc. dba Coalfields Telephone Company respectfully requests that the Commission issue a CPCN for construction of network upgrades in Floyd and Pike Counties, Kentucky.

Respectfully submitted,

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Heather M. Gearheart, General Counsel Gearheart Communications 20 Laynesville Rd. Harold, KY 41635 606-479-6260 heather@gearheart.com

PROJECT SUMMARY

PROJECT TOTAL FOR TA5000 PON FTTH, SPLITTERS & ONTS (also, VDSL), SIP, & 8,000 LINE SOFTSWITCH

3,383,523

\$

LOCATION	CUSTOMERS	TA 5000 with SPLITTERS, SHIPPING, TAXES, & INSTALLATION	ONTS & ASSOCIATED MATERIAL with FREIGHT & TAXES	TOTAL TA5000 SPLITTERS & ONTS PER LOCATION
HAROLD CO	957	\$298,568	\$411,415	\$709,983
HURRICANE CREEK	248	\$98,942	\$106,526	\$205,468
LITTLE MUD	284	\$104,202	\$122,124	\$226,326
PRATER CREEK	261	\$99,833	\$112,472	\$212,305
STANVILLE/MARE CREEK	382	\$127,180	\$164,230	\$291,410
IVEL	244	\$100,218	\$104,847	\$205,065
TOLER CREEK ADDITION	340	\$81,207	\$146,115	\$227,322
GRETHEL CO	323 (VDSL)	\$95,343	\$0	\$95,343
BIG MUD	377 (VDSL)	\$94,866	\$0	\$94,866
WHEELWRIGHT CO	336 (VDSL)	\$83,822	\$0	\$83,822

PROJECT TOTAL FOR TA5000, SPLITTERS & ONTS (also, VDSL) \$

2,351,910

CENTRAL OFFICE LOCATION	CUSTOMERS	SIP RTU PER 200	TOTAL SIP RTU PER SITE COSTS
HAROLD CO	2,800	4,500.00	\$ 63,000
GRETHEL CO	800	4,500.00	\$ 18,000
WHEELWRIGHT CO	400	4,500.00	\$ 9,000
	PROJ	ECT TOTAL FOR SIP RTU	\$ 90,000

CENTRAL OFFICE LOCATION	CUSTOMERS	SOFTSWITCH
HAROLD CO	8,000	\$ 941,613
PROJECT TOTAL FO SOFTSWIT		\$ 941,613

GEARHEART COMMUNICATIONS COMPANY, INC.		
d/b/a		
COALFIELDS TELEPHONE	COMPANY	
KY. 534-M		
OUTSIDE PLANT COST ESTIM	ATE SUMMARY	
EXCHANGE/REMOTE	TOTAL COST	
HAROLD HOST OSP	\$1,127,192	
DEADENING SPLITTER	\$143,509	
HUNTS FORK SPLITTER	\$124,196	
HURRICANE CREEK REMOTE	\$332,117	
IVEL REMOTE	\$328,192	
LITTLE MUD REMOTE	\$348,384	
MARE CREEK REMOTE	\$434,797	
PARSONS BRANCH SPLITTER	\$124,102	
PRATER CREEK REMOTE	\$242,583	
SPURLOCK CHURCH SPLITTER	\$90,718	
TOLER CREEK REMOTE	\$286,514	
TRANSPORT FIBER \$1,360		
FIBER DROPS \$2,123,30		
TOTAL:	\$7,065,953	

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Gearheart Communication Application for CPCN	ons				
	GEARHEART COMMUNICATIONS COMPANY, INC.				
1	d/b/a				
	COALFIELD	S TELEPHO	NE COMPAN	IY	
		KY. 534-M			
	HA	ROLD EXCH	ANGE		
		HAROLD CO	OUTSIDE	PLANT	
	OUTSIDE	PLANT COS	T ESTIMATE		
Des	cription	Quantity	Price	Cost	
CO12R(10M	1)	25,617	\$2.59	\$66,348	
CO12RLOC)P	9,930	\$1.40	\$13,902	
CO24R(10N	1)	39,050	\$2.94	\$114,807	
CO24R(E)		2,930	\$1.50	\$4,395	
CO24RLOC	P	9,450	\$1.50	\$14,175	
CO36R(10N	1)	15,745	\$3.02	\$47,550	
CO36R(E)		600	\$1.58	\$948	
CO36RLOC)P	4,200	\$1.58	\$6,636	
CO48R(10N	1)	20,640	\$3.09	\$63,778	
CO48RLOC)P	5,270	\$1.65	\$8,696	
CO72R(10N	1)	20,530	\$3.29	\$67,544	
CO72RLOC	P	5,030	\$1.85	\$9,306	
CO96R(10N	۸)	4,500	\$3.72	\$16,740	
CO96R(E)		1,100	\$2.27	\$2,497	
CO96RLOC	P	2,200	\$2.27	\$4,994	
CO144R(10	M)	2,080	\$4.05	\$8,424	
CO144R(E)		6,170	\$2.60	\$16,042	
CO144RLO	OP	1,860	\$2.60	\$4,836	
CO180R(10	M)	3,250	\$4.38	\$14,235	
CO180RLO		580	\$2.68	\$1,554	
CO240R(E)		3,650	\$4.15	\$15,148	
CO240RLO	OP	650	\$4.15	\$2,698	
CO288R(10	M)	12,720	\$5.62	\$71,486	
CO288R(E)		2,100	\$4.15	\$8,715	
CO288RLO	OP	3,050	\$4.15	\$12,658	
CO432R(10	M)	3,900	\$8.84	\$34,476	
CO432RLO	OP	400	\$6.51	\$2,604	
HACO(12)		95	\$330.00	\$31,350	
HACO(24)		145	\$330.00	\$47,850	
HACO(36)		64	\$350.00	\$22,400	
HACO(48)		64	\$350.00	\$22,400	
HACO(72)		77	\$380.00	\$29,260	
HACO(96)		28	\$405.00	\$11,340	
HACO(144)		20	\$475.00	\$9,500	
HACO(180)		9	\$600.00	\$5,400	
HACO(240)		8	\$750.00	\$6,000	
HACO(288)		37	\$785.00	\$29,045	
HACO(432)		3	\$820.00	\$2,460	
HO1		1174	\$28.95	\$33,987	
HO12R		652	\$255.00	\$166,260	
	cement (35%)	130	\$575.00	\$74,750	
TOTAL OSI	TOTAL OSP COST: \$1,127,192				

GEARHEART COMMUNICATIONS COMPANY, INC.				
d/b/a				
COALFIELD	S TELEPHO	NE COMPAN	Y	
	KY. 534-M			
HA HA	ROLD EXCH	ANGE		
EXCOUNT AND	DENING SPL	average war in the end of the state of the s		
OUTSIDE	PLANT COS	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	1,900	\$2.59	\$4,921	
CO12RLOOP	320	\$1.40	\$448	
CO24R(10M)	11,720	\$2.94	\$34,457	
CO24RLOOP	1,490	\$1.50	\$2,235	
CO36R(10M)	3,000	\$3.02	\$9,060	
CO36RLOOP	440	\$1.58	\$695	
CO48R(10M)	3,200	\$3.09	\$9,888	
CO48RLOOP	380	\$1.65	\$627	
CO72R(10M) 6,720 \$3.29 \$22,109				
CO72RLOOP	960	\$1.85	\$1,776	
HACO(12)	5	\$330.00	\$1,650	
HACO(24)	27	\$330.00	\$8,910	
HACO(36)	9	\$350.00	\$3,150	
HACO(48)	7	\$350.00	\$2,450	
HACO(72)	15	\$380.00	\$5,700	
HO1	83	\$28.95	\$2,403	
HO12R	46	\$255.00	\$11,730	
144 SPLITTER	1	\$7,500.00	\$7,500	
Pole Replacement (35%)	24	\$575.00	\$13,800	
TOTAL OSP COST:			\$143,509	

GEARHEART COMMUNICATIONS COMPANY, INC.				
	d/b/a			
COALFIELD	S TELEPHO	NE COMPAN	Y	
	KY. 534-M			
HA	ROLD EXCH	ANGE		
HUN	TS FORK SP	LITTER		
OUTSIDE	PLANT COS	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	8,600	\$2.59	\$22,274	
CO12RLOOP	1,420	\$1.40	\$1,988	
CO24R(10M)	2,200	\$2.94	\$6,468	
CO24RLOOP	350	\$1.50	\$525	
CO36R(10M)	4,800	\$3.02	\$14,496	
CO36RLOOP	540	\$1.58	\$853	
CO48R(10M)	2,700	\$3.09	\$8,343	
CO48RLOOP	380	\$1.65	\$627	
CO72R(10M) 6,000 \$3.29 \$19,740				
CO72RLOOP	620	\$1.85	\$1,147	
HACO(12)	19	\$330.00	\$6,270	
HACO(24)	6	\$330.00	\$1,980	
HACO(36)	10	\$350.00	\$3,500	
HACO(48)	7	\$350.00	\$2,450	
HACO(72)	15	\$380.00	\$5,700	
HO1	72	\$28.95	\$2,084	
HO12R	40	\$255.00	\$10,200	
144 SPLITTER	1	\$7,500.00	\$7,500	
Pole Replacement (35%)	14	\$575.00	\$8,050	
TOTAL OSP COST:			\$124,196	

GEARHEART COMMUNICATIONS COMPANY, INC.				
	d/b/a			
COALFIELD	COALFIELDS TELEPHONE COMPANY			
	KY. 534-M			
HA	ROLD EXCH	ANGE		
HURRIC	CANE CREEK	REMOTE		
OUTSIDE	PLANT COS	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	14,820	\$2.59	\$38,384	
CO12RLOOP	3,060	\$1.40	\$4,284	
CO24R(10M)	3,550	\$2.94	\$10,437	
CO24R(E)	950	\$1.50	\$1,425	
CO24RLOOP	1,230	\$1.50	\$1,845	
CO36R(10M)	9,770	\$3.02	\$29,505	
CO36RLOOP	1,480	\$1.58	\$2,338	
CO48R(10M)	2,000	\$3.09	\$6,180	
CO48R(E)	5,900	\$1.65	\$9,735	
CO48RLOOP	1,190	\$1.65	\$1,964	
CO72R(10M)	11,850	\$3.29	\$38,987	
C072R(E)	1,250	\$1.85	\$2,313	
CO72RLOOP	1,610	\$1.85	\$2,979	
CO144R(10M)	3,720	\$4.05	\$15,066	
CO144RLOOP	540	\$2.60	\$1,404	
CO240R(10M)	5,700	\$4.80	\$27,360	
CO240RLOOP	1,590	\$4.15	\$6,599	
HACO(12)	44	\$330.00	\$14,520	
HACO(24)	15	\$330.00	\$4,950	
HACO(36)	21	\$350.00	\$7,350	
HACO(48)	25	\$350.00	\$8,750	
HACO(72)	29	\$380.00	\$11,020	
HACO(144)	9	\$475.00	\$4,275	
HACO(240)	18	\$750.00	\$13,500	
HO1	234	\$28.95	\$6,774	
HO12R	130	\$255.00	\$33,150	
Pole Replacement (35%)	47	\$575.00	\$27,025	
TOTAL OSP COST: \$332,117				

GEARHEART COMMUNICATIONS COMPANY, INC.			
d/b/a			
COALFIELD	S TELEPHO	NE COMPAN	Y
1	KY. 534-M		
НА	ROLD EXCH	ANGE	
	IVEL REMO	ΓE	
OUTSIDE	PLANT COS	How-WI	
Description	Quantity	Price	Cost
CO12R(10M)	18,020	\$2.59	\$46,672
CO12RLOOP	3,270	\$1.40	\$4,578
CO24R(10M)	8,200	\$2.94	\$24,108
CO24RLOOP	1,540	\$1.50	\$2,310
CO48R(10M)	14,800	\$3.09	\$45,732
CO48RLOOP	1,850	\$1.65	\$3,053
CO96R(10M)	6,000	\$3.72	\$22,320
CO96RLOOP	1,410	\$2.27	\$3,201
CO144R(10M)	5,750	\$4.05	\$23,288
CO144RLOOP	710	\$2.60	\$1,846
CO240R(10M)	3,370	\$4.80	\$16,176
CO240R LOOP	590	\$4.15	\$2,449
CO288R(10M)	1,900	\$5.62	\$10,678
CO288RLOOP	410	\$4.15	\$1,702
HACO(12)	33	\$330.00	\$10,890
HACO(24)	22	\$330.00	\$7,260
HACO(48)	31	\$350.00	\$10,850
HACO(96)	12	\$405.00	\$4,860
HACO(144)	10	\$475.00	\$4,750
HACO(240)	6	\$750.00	\$4,500
HACO(288)	6	\$785.00	\$4,710
HO1	299	\$28.95	\$8,656
HO12R	166	\$255.00	\$42,330
Pole Replacement	37	\$575.00	\$21,275
TOTAL OSP COST:			\$328,192

GEARHEART COMMUNICATIONS COMPANY, INC.				
d/b/a				
COALFIELD	COALFIELDS TELEPHONE COMPANY			
	KY. 534-M			
HA	ROLD EXCH	ANGE		
LIT	TLE MUD RE	MOTE		
OUTSIDE	PLANT COS	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	8,300	\$2.59	\$21,497	
CO12RLOOP	1,660	\$1.40	\$2,324	
CO24R(10M)	20,450	\$2.94	\$60,123	
CO24R(E)	1,300	\$1.50	\$1,950	
CO24RLOOP	2,270	\$1.50	\$3,405	
CO48R(10M)	21,800	\$3.09	\$67,362	
CO48RLOOP	2,030	\$1.65	\$3,350	
CO72R(10M)	4,700	\$3.29	\$15,463	
CO72RLOOP	400	\$1.85	\$740	
CO96R(10M)	4,000	\$3.72	\$14,880	
CO96RLOOP	440	\$2.27	\$999	
CO180R(10M)	7,250	\$4.38	\$31,755	
CO180RLOOP	1,090	\$2.68	\$2,921	
HACO(12)	19	\$330.00	\$6,270	
HACO(24)	37	\$330.00	\$12,210	
HACO(48)	45	\$350.00	\$15,750	
HACO(96)	9	\$405.00	\$3,645	
HACO(180)	25	\$600.00	\$15,000	
HO1	214	\$28.95	\$6,195	
HO12R	119	\$255.00	\$30,345	
Pole Replacement (35%)	56	\$575.00	\$32,200	
TOTAL OSP COST:			\$348,384	

GEARHEART COMMUNICATIONS COMPANY, INC.				
d/b/a				
COALFIELDS TELEPHONE COMPANY				
KY. 534-M				
HAROLD EXCHANGE				
MAF	RE CREEK RE	EMOTE		
OUTSIDE	PLANT COST	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	15,090	\$2.59	\$39,083	
CO12RLOOP	3,330	\$1.40	\$4,662	
CO24R(10M)	23,360	\$2.94	\$68,678	
CO24RLOOP	4,290	\$1.50	\$6,435	
CO36R(10M)	600	\$3.02	\$1,812	
CO36RLOOP	350	\$1.58	\$553	
CO48R(10M)	2,650	\$3.09	\$8,189	
CO48RLOOP	290	\$1.65	\$479	
CO72R(10M)	5,230	\$3.29	\$17,207	
CO72RLOOP	960	\$1.85	\$1,776	
CO96R(10M)	7,590	\$3.72	\$28,235	
CO96RLOOP	1,580	\$2.27	\$3,587	
CO144R(10M)	8,300	\$4.05	\$33,615	
CO144RLOOP	2,130	\$2.60	\$5,538	
CO180R(10M)	3,350	\$4.38	\$14,673	
CO180RLOOP	440	\$2.68	\$1,179	
CO288R(10M)	2,900	\$5.62	\$16,298	
CO288RLOOP	1,250	\$4.15	\$5,188	
HACO(12)	34	\$330.00	\$11,220	
HACO(24)	67	\$330.00	\$22,110	
HACO(36)	6	\$350.00	\$2,100	
HACO(48)	4	\$350.00	\$1,400	
HACO(72)	15	\$380.00	\$5,700	
HACO(96)	22	\$405.00	\$8,910	
HACO(144)	30	\$475.00	\$14,250	
HACO(180)	9	\$600.00	\$5,400	
HACO(288)	11	\$785.00	\$8,635	
HO1	384	\$28.95	\$11,117	
HO12R	214	\$255.00	\$54,570	
Pole Replacement (35%) 56 \$575.00 \$32,200				
TOTAL OSP COST: \$434,797				

GEARHEART COMMUNICATIONS COMPANY, INC.						
d/b/a						
COALFIELDS TELEPHONE COMPANY						
	KY. 534-M					
НА	ROLD EXCH	ANGE				
PARSO	NS BRANCH	SPLITTER				
	PLANT COS					
Description	Quantity	Price	Cost			
CO12R(10M)	9,370	\$2.59	\$24,268			
CO12R(E)	700	\$1.40	\$980			
CO12RLOOP	1,980	\$1.40	\$2,772			
CO24R(10M)	1,600	\$2.94	\$4,704			
CO24RLOOP	890	\$1.50	\$1,335			
CO36R(10M)	2,900	\$3.02	\$8,758			
CO36RLOOP 280 \$1.58 \$442						
CO48R(10M)						
CO48RLOOP	320	\$1.65	\$528			
CO96R(10M)	7,350	\$3.72	\$27,342			
CO96RLOOP	580	\$2.27	\$1,317			
HACO(12)	16	\$330.00	\$5,280			
HACO(24)	6	\$330.00	\$1,980			
HACO(36)	7	\$350.00	\$2,450			
HACO(48)	5	\$350.00	\$1,750			
HACO(96)	9	\$405.00	\$3,645			
HO1	70	\$28.95	\$2,027			
HO12R	39	\$255.00	\$9,945			
144 SPLITTER	1	\$7,500.00	\$7,500			
Pole Replacement (35%) 16 \$575.00 \$9,200						
TOTAL OSP COST: \$124,102						

GEARHEART COMMUNICATIONS COMPANY, INC.				
d/b/a				
COALFIELDS TELEPHONE COMPANY				
KY. 534-M				
HA	ROLD EXCH	ANGE		
	FER CREEK F	an annenna sea, scal		
OUTSIDE	PLANT COS	T ESTIMATE		
Description	Quantity	Price	Cost	
CO12R(10M)	10,700	\$2.59	\$27,713	
CO12RLOOP	1,860	\$1.40	\$2,604	
CO24R(10M)	1,800	\$2.94	\$5,292	
CO24RLOOP	350	\$1.50	\$525	
CO36R(10M)	2,200	\$3.02	\$6,644	
CO36RLOOP	550	\$1.58	\$869	
CO48R(10M)	14,250	\$3.09	\$44,033	
CO48RLOOP	1,430	\$1.65	\$2,360	
CO72R(10M)	5,900	\$3.29	\$19,411	
CO72RLOOP	760	\$1.85	\$1,406	
CO96R(10M)	3,450	\$3.72	\$12,834	
CO96RLOOP	540	\$2.27	\$1,226	
CO180R(10M)	5,800	\$4.38	\$25,404	
CO180RLOOP	970	\$2.68	\$2,600	
HACO(12)	19	\$330.00	\$6,270	
HACO(24)	6	\$330.00	\$1,980	
HACO(36)	7	\$350.00	\$2,450	
HACO(48)	34	\$350.00	\$11,900	
HACO(72)	9	\$380.00	\$3,420	
HACO(96)	9	\$405.00	\$3,645	
HACO(180)	11	\$600.00	\$6,600	
HO1	178	\$28.95	\$5,153	
HO12R	99	\$255.00	\$25,245	
Pole Replacement (35%) 40 \$575.00 \$23,000				
TOTAL OSP COST: \$242,583				

GEARHEART COMMUNICATIONS COMPANY, INC.					
d/b/a					
COALFIELDS TELEPHONE COMPANY					
	KY. 534-M				
HA	ROLD EXCH	ANGE			
SPURLC	CK CHURCH	I SPLITTER			
OUTSIDE	PLANT COS	T ESTIMATE			
Description	Quantity	Price	Cost		
CO12R(10M)	1,800	\$2.59	\$4,662		
CO12RLOOP	460	\$1.40	\$644		
CO24R(10M)	4,250	\$2.94	\$12,495		
CO24RLOOP	570	\$1.50	\$855		
CO36R(10M)	3,200	\$3.02	\$9,664		
CO36RLOOP 380 \$1.58 \$600					
CO72R(10M) 5,000 \$3.29 \$16,450					
CO72RLOOP	440	\$1.85	\$814		
HACO(12)	4	\$330.00	\$1,320		
HACO(24)	13	\$330.00	\$4,290		
HACO(36)	7	\$350.00	\$2,450		
HACO(72)	9	\$380.00	\$3,420		
HO1	49	\$28.95	\$1,419		
HO12R	27	\$255.00	\$6,885		
144 SPLITTER 1 \$7,500.00 \$7,500					
Pole Replacement (35%) 30 \$575.00 \$17,250					
TOTAL OSP COST: \$90,718					

GEARHEART COMMUNICATIONS COMPANY, INC.					
d/b/a					
COALFIELDS TELEPHONE COMPANY					
KY. 534-M					
HA HA	HAROLD EXCHANGE				
TOLE	ER CREEK R	EMOTE			
OUTSIDE	PLANT COS	T ESTIMATE			
Description	Quantity	Price	Cost		
CO12R(10M)	3,300	\$2.59	\$8,547		
CO12RLOOP	1,170	\$1.40	\$1,638		
CO24R(10M)	13,160	\$2.94	\$38,690		
CO24RLOOP	1,590	\$1.50	\$2,385		
CO36R(E)	3,200	\$1.58	\$5,056		
CO36RLOOP	370	\$1.58	\$585		
CO48R(10M)	5,320	\$3.09	\$16,439		
CO48RLOOP	850	\$1.65	\$1,403		
CO96R(10M)	17,770	\$3.72	\$66,104		
CO96R(E)	600	\$2.27	\$1,362		
CO96RLOOP	1,740	\$2.27	\$3,950		
CO144R(10M)	3,100	\$4.05	\$12,555		
CO144RLOOP	460	\$2.60	\$1,196		
CO180R(10M)	6,180	\$4.38	\$27,068		
CO180RLOOP	1,320	\$2.68	\$3,538		
HACO(12)	14	\$330.00	\$4,620		
HACO(24)	28	\$330.00	\$9,240		
HACO(36)	11	\$350.00	\$3,850		
HACO(48)	17	\$350.00	\$5,950		
HACO(96)	34	\$405.00	\$13,770		
HACO(144)	4	\$475.00	\$1,900		
HACO(180)	17	\$600.00	\$10,200		
HO1	148	\$28.95	\$4,285		
HO12R	82	\$255.00	\$20,910		
Pole Replacement (35%)	Pole Replacement (35%) 37 \$575.00 \$21,275				
TOTAL OSP COST: \$286,514					

GEARHEART COMMUNICATIONS COMPANY, INC.					
	d/b/a				
COALFIELDS TELEPHONE COMPANY					
	KY. 534				
A DESCRIPTION OF A DESC	ORT FIBER (cos	No. 2 R. West A. Markey	ATE	
Description	Quantity		Price		Cost
	- HURRICAI			_	
CO288R(10M)	16,400		5.62	\$	92,168
CO288RLOOP	400		4.15	\$	1,660
	OLD CO - IV	_	REMOTE		
CO288R(10M)	26,500		5.62	\$	148,930
CO288RLOOP	1,200		4.15	\$	4,980
HURRICANE CREE			OLER CR		REMOTE
CO48R(10M)	40,800		3.09	\$	126,072
CO48RLOOP	2,000	1	1.65	\$	3,300
CO288R(10M)	18,400	\$	5.62	\$	103,408
CO288RLOOP	1,000	\$	4.15	\$	4,150
HAROLD	CO - GRETH	HEL	BOUNDA	ARY	·
CO288R(10M)	15,800	\$	5.62	\$	88,796
CO288RLOOP	800	\$	4.15	\$	3,320
GRETHE	L BOUNDAR	Y-0	GRETHEL	CC)
CO288R(10M)	14,100	\$	5.62	\$	79,242
CO288RLOOP	700	\$	4.15	\$	2,905
GRETHEL C	O - WHEELW	/RI	GHT BOU	ND/	ARY
CO288R(10M)	60,000	\$	5.62	\$	337,200
CO288RLOOP	3,500	\$	4.15	\$	14,525
HAROLD (O - PRATER	CF	REEK REM	NOT	ГЕ
CO72R(10M)	6,900	\$	3.29	\$	22,701
CO72RLOOP	400	\$	1.85	\$	740
CO48R(10M)	7,980	\$	3.09	\$	24,658
CO48RLOOP	500	\$	1.65	\$	825
HAROLD	HAROLD CO - LITTLE MUD REMOTE				
CO24R(10M)	9,365	\$	2.94	\$	27,533
CO24RLOOP	600	\$	1.50	\$	900
IVEL REMOTE - PRATER CREEK REMOTE					
CO288R(10M)	19,500	\$	5.62	\$	109,590
CO288RLOOP	700	\$	4.15	\$	2,905
CO48R(10M)	27,100	\$	3.09	\$	83,739
CO48RLOOP	800	\$	1.65	\$	1,320
TINK REMOTE - BRAN 2 REMOTE					
CO48R(10M)	23,774	\$	3.09	\$	73,462
CO48RLOOP	800	\$	1.65	\$	1,320
TOTAL TRANSPORT	FIBER COS	T:		\$	1,360,349

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GEARHEART COMMUNICATIONS COMPANY, INC.					
d/b/a					
COALFIELD	COALFIELDS TELEPHONE COMPANY				
E.	KY. 534-N	N			
FIBER DF	ROPS COST	T ESTIMAT	E		
Description	Quantity	Price	Cost		
Harold CO	884	\$850	\$751,400		
Hurricane Creek	248	\$850	\$210,800		
Toler Creek	241	\$850	\$204,850		
Mare Creek 162 \$850 \$137,70					
lvel	244	\$850	\$207,400		
Prater Creek	162	\$850	\$137,700		
Little Mud	227	\$850	\$192,950		
Parsons Branch	72	\$850	\$61,200		
Deadening	96	\$850	\$81,600		
Spurlock Church	58	\$850	\$49,300		
Hunts Fork	104	\$850	\$88,400		
Total: \$2,123,300					



United States Department of Agriculture Rural Development

DEC 0 9 2015

Mr. Paul D. Gearheart President Gearheart Communications Company, Inc., d/b/a Coalfields Telephone Company P.O. Box 160 Harold, Kentucky 41635

Dear Mr. Gearheart:

We have received and are hereby approving your request to proceed with construction proposed under your "M" loan application in the amount of \$12,306,019. We understand that you plan to use general funds as an interim financing arrangement.

We grant interim financing approval for only those projects that you must perform immediately. We understand that the proposed construction will consist of engineering services, electronic equipment and outside plant costs related to toll and trunk improvements and the completion of the fiber ring in the Grethel Exchange.

We approve your request to proceed under interim financing in an amount not to exceed \$1,052,000. This approval is not a commitment from the Rural Utilities Service Telecommunications Program that loan funds will be available for these purposes.

If loan funds become available for these purposes, we will be under no obligation to advance funds to reimburse interim financing unless you comply with all conditions of the Rural Utilities Service Telecommunications Program loans:

1. All construction is consistent with the approved engineering study submitted as a basis for the loan.

2. Our standard procedures for engineering services and construction are followed. This includes obtaining Rural Utilities Service Telecommunications Program approval of plans and specifications, proposals, contracts, and close-out documents.

3. The completed construction conforms fully with our standards and specifications.

4. Construction costs are reasonable and well documented.

1400 Independence Ave, S.W. Washington DC 20250-0700 Web: http://www.rurdev.usda.gov

Committed to the future of rural communities

"USDA is an equal opportunity provider, employer and lender." To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC 20250-9410 or call (800) 795-3272 (Voice) or (202) 720-6382 (TDD). Mr. Paul D. Gearheart

5. Construction is performed following REA Bulletin 320-15, "Equal Employment Opportunity in Construction Financed with REA Loans."

6. All requisites to advances established in the loan contract are satisfied.

7. The "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower Tier Covered Transactions" is included in all construction and equipment purchase agreements of \$25,000 or more, and in solicitations for such agreements and purchases. We have enclosed a suggested form of this certification.

8. The "Certification for Contracts, Grants, Loans and Cooperative Agreements" regarding lobbying is included in all construction and equipment purchase agreements of \$100,000 or more, and in solicitations for such agreements and purchases. We have enclosed a suggested form of this certification.

You must include a copy of the enclosed addenda with all "*Requests for Proposals*" to potential suppliers and contractors to inform them that an RUS loan has **not** been made and that Coalfields Telephone Company will fund the work with its own funds and that arrangements have been made by Coalfields Telephone to ensure the timely payment for work performed under contracts that are approved on an interim basis by RUS.

If you should have any questions on interim financing procedures, please contact our General Field Representative, Mr. James E. Wilson at 859-335-5483 or our Post Loan Servicing Branch at 202-720-0725

Sincerely,

SHAWN B. ARNER, Deputy Assistant Administrator Loan Origination & Approval Division Telecommunications Program Rural Utilities Service

Enclosures

cc: Ladd Engineering Associates, Inc. Gearheart Communications dba Coalfields Telephone Company Application for a CPCN

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Maps







Application

CONTAINS

LARGE OR OVERSIZED

MAP(S)

RECEIVED ON: 01/08/2016