

Application to DHCD Submitted through CAMS

Surry County

Surry County/ Prince George Electric Broadband 2020

Application ID: 64508132019090405
Application Status: In Progress - DHCD
Program Name: Virginia Telecommunications Initiative 2020
Organization Name: Surry County
Organization Address: 45 School Street
Surry, VA 23883-0065
Profile Manager Name: Melissa Rollins
Profile Manager Phone: (757) 294-5273
Profile Manager Email: mrollins@surrycountyva.gov

Project Name: Surry County/ Prince George Electric Broadband 2020
Project Contact Name: Jonathan Lynn
Project Contact Phone: (757) 294-5271
Project Contact Email: Jlynn@surrycountyva.gov
Project Location: 45 School Street
Surry, VA 23883-0000
Project Service Area: Surry County

Total Requested Amount: \$2,225,000.00
Required Annual Audit Status: Accepted

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$2,225,000.00	\$2,225,000.00	\$4,450,000.00
Construction	\$2,225,000.00	\$1,725,000.00	\$3,950,000.00
Other: Fiber Services, Equipment, End	\$0.00	\$500,000.00	\$500,000.00
Total:	\$2,225,000.00	\$2,225,000.00	\$4,450,000.00

Budget Narrative:

Surry County supported via resolution a local funding match of \$2,225,000 representing 50% of the cost of the total project. The County had previously dedicated \$500,000 in the FY 19-20 budget for the current fiber to the home project with PGEC Enterprises. This equates to an additional commitment of \$1,725,000 that the County is willing to allocate to this project.

Questions and Responses:

1. Project Area

Explain why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 –Project Area Map.

Answer:

The geographic area for this proposed project includes most of Surry County's 310 square miles and is bounded to the north by the James River, west and south, the Sussex County municipal line, and East the Isle of Wight Municipal line as noted on the attached Project Area map. The project area was selected after consultation between the County and PGEC and meets the eligibility criteria established by the Virginia General Assembly and the Department of Housing and Community Development ("DHCD") for a Virginia Telecommunication Initiative ("VATI") award. It aligns with the footprint of PGEC long-term expansion plan to implement broadband infrastructure incrementally from areas within and near our electrical utility service areas and adjacent to communities where PGEC currently provides or is expanding broadband service. Surry County's effort to make broadband services available to constituents has spanned more than seven years and is supported by business and residential constituents as evidenced by the 2008 Broadband Planning grant and survey results and frequent requests by constituents about the status of proposed wireless internet programs and frustrations regarding continued delays. Surry County and the Virginia Department of Housing and Community Development cofounded a Broadband Planning study, completed in 2008. The study surveyed business and residential constituents about internet services, satisfaction with existing service, likelihood of subscribing to fee based wireless internet service, and patterns of internet use. The study finding, reported in the summary tables convincingly demonstrate that Surry County residential constituents are 1) Dissatisfied with their current ISP, 83%, of whom use Dial Up providers. 80% of residential constituents reported that they are dissatisfied due to poor connection and insufficient bandwidth, high costs and unreliable service. Residential

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constituents reported that their reliance on the internet requires that they access it using dial up and other dated technology for distance learning, web site hosting, online sales and training. Residents anticipate a significant uptick in use with improvements in broadband infrastructure and reported continuing existing uses and additional uses to include video conferencing, voice service and accessing tele-medicine opportunities. The 2008 Broadband Planning study reported similar findings for Surry County Business Constituents. 78% of business survey respondents reported using dial-up ISPs for internet service and reported dissatisfaction in the areas of connection speed, bandwidth and price. Anticipated future use included advertising, online sales, web hosting and training. An important note related to the business survey respondents is that approximately 55% reported incomes of less than \$50,000 annually, categorizing most as small business users, employing 1-4 persons. There are an estimated 1,253 residential and commercial locations within the road center in the proposed Project area. In summary in combination with previously awarded connect America funding, the PGEC, Surry County and VDHCD grant all residential and commercial facilities in the County will have the opportunity to subscribe to the fiber to the home or business project.

2.

Describe your outreach efforts to identify existing providers in the selected project area. Provide a detailed explanation of how this information was compiled and the source(s). Provide a map and list of all existing providers (fixed and wireless) and speeds offered within the project area. Label Map: Attachment 2 – Existing Provider Map; label documentation: Attachment 3 – Documentation on CAF Funding Area.

Answer:

The project area chosen for this VATI grant submission currently does not have any provider that offers high-speed service as set out by DHCD at <10 Mbps/1Mbps. Surry County owns a fiber network which starts south of Town and travels through the center of the Town of Surry. It serves anchor institutions such as the County's Administration Building and Sheriff Offices. SCS Broadband is one of two ISPs which provisions services from this fiber line. The fiber has a limited number of drops and very limited expansion capability without incurring significant costs.

380 Communications, located within the Town of Surry, is the second current ISP provider with an advertised basic plan for \$69.95 for 3-4Mbps and a business plan for \$94.95 for 5-6Mbps. There are no other ISPs in the project area that meet the speed requirements of 10Mbps or greater in advertised speeds. There are no DSL or cable services available in any part of Surry County today. The sole wireless ISP provider is 380 Communications which offers service only within the Town of Surry municipal limits.

3. Project Need/Description

To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds of 10 Mbps / 1 Mbps or less and with less than 10 percent service overlap within the project area. Describe any anticipated service overlap with current providers within the project area.

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Provide specific information as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

Answer:

Surry County proposes a partnership with Prince George Electric Cooperative (PGEC) to construct and extend service to areas that presently are unserved by any broadband provider. The project will be an extension of the current fiber-to-the home project currently underway. Surry County consists of 310 square miles, nearly all the area is unserved or underserved by broadband. In 2018, the County Board of Supervisors with support of the Economic Development Authority entered into an agreement with PGEC Enterprises for Phase I of a fiber-to-the home partnership to provide connections to homes or businesses. The purpose of the public-private partnership of Surry County and PGEC Enterprises dba Ruralband, along with other local municipal partners, is to achieve the goal of having 100% of the Prince George Electric Cooperative service area in the county served by fiber-to-the-home. Additionally, PGEC Enterprises dba Ruralband will install fiber lines and will own and maintain the fiber system for the County. PGEC Enterprises dba Ruralband will provide internet service and handle all maintenance and billing. PGEC Enterprises dba Ruralband proposes at a minimum to offer three levels of broadband speeds: 50 mbps/50 mbps upload, 100 mbps/100 mbps upload, and up to 1 Gbps/1 Gbps upload. The proposed project will target unserved areas defined as having broadband speeds of 10 Megabits per second (Mbps) download and 1 Mbps upload or less to areas not currently covered in the County.

4. Provide the number of residential serviceable units in the project area(s). Describe the eligible premises that will be served by the proposed project and the basis for these projections.

Answer:

1,253 residentials available for service based on 2018 Census Data.

Broadbandnow.com was used as a resource to identify the following data points:

The average download speed in Surry is 2.46 Mbps. This is 95.9% slower than the average in Virginia and 1706.5% slower than the national average.

- There are 9 internet providers in Surry with 3 of those offering residential service.
- Surry is the 518th most connected city in Virginia ahead of Waverly, Wakefield, and Spring Grove, but behind Williamsburg and Fort Eustis.
- There are 194 internet providers in all of Virginia.
- Approximately 6,000 people in Surry County don't have access to any wired internet.
- There are 5 companies offering business internet services in Surry.

- 100% of Surry residents are still severely limited in wired broadband choices.

- No one in Surry County has access to a fiber optic broadband connection.

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- Virginia is the 26th most connected state in the U.S.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area. Also indicate the number of home-based businesses. Provide specific information.

Answer:

In 2017, Surry County, VA had a population of 6.67k people with a median age of 49.3 and a median household income of \$54,656. Between 2016 and 2017 the population of Surry County, VA declined from 6,731 to 6,670, a -0.906% decrease and its median household income declined from \$56,632 to \$54,656, a -3.49% decrease. According to the Census American Community Survey, Five Year estimate, the most common employment sectors for those who live in Surry County, VA, are Manufacturing (457 people), Retail Trade (391 people), and Health Care & Social Assistance (362 people). This chart shows the share breakdown of the primary industries for residents of Surry County, VA, though some of these residents may live in Surry County, VA and work somewhere else. Surry County Administration estimates that deployment of broadband infrastructure would serve a total of 86 businesses. The Virginia Employment Commission's Economic Profile publication for Surry County lists the community's fifty major employers as Virginia Electric & Power Company Inc., The Atlantic Group Inc., Surry County School Board, County of Surry, S.W. Edwards and Sons, Windsor Mill, Fluor Daniel Services Corporation, Surry County Department of Social Services, Barlett Nuclear, Coggin Electric Specialists, Dominion Resources, Seward Lumber Company Inc., Sho Enterprises LLC, Virginia Department of Conservation, U.S. Postal Service, Carrolls Foods, Association for Preservation, Dominion Technical Solutions Inc., Surry Equipment, Tidewater Testing Service, Blaney Services, 7-Eleven, Ace Charter Service, Dolgencorp LLC, Nicholas & Shelly Schorsc, Anna's Pizza of Surry, Wayne Garnett Logging, Johnson Brothers, Virginia - Chippokes Plantation Farm Foundation, BB & T Corp, Mojitos Mexican Grill, Virginia State Department of Health, Farmer's United, Garrett Trucking Company, John R. Curtis Jr., June R. Tunstall, MD, Marion C Sowder, Southside Bank, Chris C Scott Logging LLC, Eastern Forestry Tree Services, James L. Kirby Jr., R.A., Goodrich Trucking, Virginia Department of State Police, Virginia Farm Bureau Mutual Insurance, Inc., Virginia Tech Cooperative Extension Office, Dixie Excavating & Hauling Inc., and Joes Alignment & Exhaust. Additionally, the Surry County Commissioner of Revenue's office indicates that approximately 235 +/- Home Based Business licenses are registered in Surry County. (08/30/19)

6. Understanding that projected take rates are an estimate, provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also detail all actions (e.g. marketing activities, outreach plan) to be implemented to reach the identified potential serviceable units within the project area.

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Prince George Electric Coop estimates the take rate projection is 30%. Marketing efforts proposed for continued implementation for the broadband project include an aggressive direct mail campaign, community meetings, and outreach through the RURALBAND sales department. Additionally, advertising and marketing through social and traditional media will be ongoing, as well as mail inserts for our existing electrical utility customers.

7. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

Answer:

N/A- This is not a wireless project.

8. Provide the proposed download and upload speeds for the project area. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

Answer:

Customers within 1,000 feet of a VDOT road can subscribe for bandwidth and receive a minimum speed of 25 Mbps download and 3 Mbps upload, with no caps on data usage. Additional subscription opportunities include 50 Mbps upload and download for \$74/per month, 100 Mbps download and upload for \$99/per month and 1 Gbps upload and download for \$179/per month.

9. Provide a description of the network system design used to deliver broadband service from the network's primary Internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project. Label Map: Attachment 5 – Propagation Map Wireless Project

Answer:

The internet access delivery infrastructure is assembled from 4 discrete subnetwork components. All equipment is connected via fiber optic cables, including to the home's optical network terminal (FTTH). This design allows us to upgrade electronics in one sub component without affecting other areas or requiring re-investment in equipment across the board. In addition to allowing smoother migrations and scaling capabilities it also allows us to implement H/A (high availability) features in each piece of the network separately. Standards based protocols (BGP, CGNAT, DHCPv6, 802.1q vlan tagging) will be used to interconnect each piece. PGEC Enterprises, LLC, DBA "RURALBAND", will build, own and maintain all fiber optic facilities needed to reach each location. PGEC Enterprises, LLC, DBA "RURALBAND", will be utilizing a GPON technology that is engineered for a distributed split architecture. Each distributed split section, using Gpon ports from the Calix E7, will be uniquely engineered to ensure capacity for anticipated future growth. Each location will be eligible for all performance tiers, including

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1G symmetrical data and telephone services. The inhome optical network terminal (Calix 844G) is equipped for both data and telephone end user services.

10. Project Readiness

What is the current state of project development (e.g. planning, preliminary engineering, identifying easements/permits, final design, etc.)? Prepare a detailed project timeline or construction schedule which identifies specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Provide any Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) (drafts are allowable), letters of support, etc. The timeline should include all activities being completed within 12 months of contract execution with DHCD. Label Attachments: Attachment 6 – Timeline/Project Management Plan; Attachment 7 – Relationship between Applicant/Co-Applicant; Attachment 8 – Letters of Support;

- i. If the partnership is formalized in a written agreement, provide a copy of that agreement.
- ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant, co-applicant, and any additional partners.
- iii. If applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Answer:

The project is shovel ready. The fiber network will be deployed within existing VDOT right-of-way by PGEC. The company has extensive experience with fiber installation and delivery of broadband service to residential constituents in multiple localities in the Crater region (Garysville, Newsville, Prince George, Waverly and Wakefield. Prince George Electric Cooperative commenced operating without interruption since 1930 and began providing high-speed internet solution to the under served rural communities Prince George, and Sussex and to meet a need in 2017. PGEC has methodically continued to move forward with implementation of a successful broadband expansion to communities neighboring Prince George County. This history notes evidence of early project completion and service delivery consistent with budget expectations. The Cooperative has the capacity relative to staff and experience to continue this positive implementation experience in Surry County, Virginia.

11. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project (VATI funding cannot exceed 80 percent of total project cost). The Funding Sources Table must be completed. Label Attachments: Attachment 9 - Documentation of Match Funding; Attachment 10 – Funding Sources Table;

- i. For each element of matching funds in the description, indicate the type of match (e.g. cash, salary expense, or in-kind contribution).
- ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.
- iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

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PGEC Enterprises, LLC Funding and Cost Estimates Description

The estimated cost is \$4.45 million dollars to expand broadband fiber-to-the-home across the area with costs contributed to each service are as follows:

Investment Costs for Broadband fiber-to-the-Home Surry County

Surry County Distribution Facilities	Fiber Services	End Use Equipment	Total
2,492,000	1,691,000	267,000	4.45m
			(4,450,000)

12. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easements, and other issues that may hinder or delay timely construction and increase cost. Provide detail if this project includes additional partners such as municipal providers, middle-mile providers, or investor-owned utilities

Answer:

Included as an attachment is a copy of the fully executed agreement between Surry County and Prince George Electric Cooperative (PGEC). The Economic Development Authority (EDA) through a capital grant from the Board of Supervisors entered into an agreement in August 2018 with Prince George Electric Cooperative Enterprises for Fiber to the Home broadband services. The prescriptive requirements of the agreement stipulate that PGEC will connect 500 homes to the PGEC fiber infrastructure and offer internet subscription services within 18 months of execution of the agreement. Surry County and PGEC will expand the terms of the existing agreement with approval of the proposed 2020 VATI grant.

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Provide a concise description of their role and responsibilities for the project. Present this information in table format.

Answer:

SURRY COUNTY BROADBAND PROJECT – KEY INDIVIDUALS

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2019 VATI Grant

Name	Title	Project Role
Mr. Delon Brown	Network Administrator	County's point of contact for information relating to Surry County; technical support lead
Mrs. Carol Swindell CPA, CPFO, CIA, CGMA	Finance Manager	Provides fiduciary oversight, financial management services to ensure fiscal compliance with grant
Mrs. Melissa Rollins	Asst. County Administrator	County Administrative Contact and project management responsibilities on the project; the County's immediate supervisor
Mr. Jonathan Lynn	County Administrator	County's overall point of contact and contract administrator
Rhonda L. Russell, Ed.D.	Project Consultant RRM Consultants	County's contact for questions and answers as they arise
Ms. Renee Chaplain	PGEC Enterprises, DBA RuralBand	PGEC Governmental liaison and overall point of contact for administration; addresses any issues or challenges
Mr. Casey Logan, PE	PGEC Enterprises, DBA RuralBand	PGEC chief executive officer; approval responsibilities
Community Representative, TBD	Virginia Department of Housing and Community Development	Grant compliance and technical support.

14. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates. Label Attachment: Attachment 11 – Derivation of Costs; Attachment 12 - Documentation of Supporting Costs; Attachment 13 – Supporting Documentation of Cost Estimates.

Answer:

PGEC Enterprises, LLC Funding and Cost Estimates Description

The estimated cost is \$4.45 million dollars to expand broadband fiber-to-the-home across the area with costs contributed to each service are as follows:

Investment Costs for Broadband fiber-to-the-Home Surry County

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Surry County Distribution Facilities	Fiber Services	End Use Equipment	Total
2,492,000	1,691,000	267,000	4.45m (4,450,000)

15. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30-point scale to form a composite score. Please provide the following three pieces of information:

- a. Total State funding requested / Total Project cost
- b. Number of serviceable units
- c. Highest residential speed available

Answer:

- a. Total State funding requested / Total Project cost - \$2,225,000.00
- b. Number of serviceable units- 1,253
- c. Highest residential speed available- 1 Gbps upload and 1 Gbps download.

16. A brief description of applicant and co-applicant’s history or experience with managing grants and constructing broadband communication facilities in the Commonwealth of Virginia and elsewhere.

Answer:

Prince George Electric Cooperative started as a pilot program in 2016 that has become a successful internet service provider operation for Prince George Electric Cooperative’s subsidiary PGEC Enterprises. The fiber-to-the-home project began as part of the cooperative’s efforts to create a “smart grid” to link together PGEC substations together using fiber optics to further streamline the electric cooperative’s operations. That same fiber also serves as the backbone that provides fiber optic cable to the homes of customers to give them access to high-speed internet that may otherwise not be offered in the area. Surry County has to date committed \$1 million for Surry County residents to receive broadband services. The Prince George County project has performed exceptionally well over the last twelve months. PGEC Enterprises has brought over 240 Prince George customers online and expanded to provide service in Sussex and Surry Counties. Surry County partnered with Mid Atlantic Broadband Communities, Incorporated, to co-locate a fiber hub with Mid-Atlantic Broadband Communities, Inc. Data traveling over the county owned fiber networks is transported across the Surry County owned network to the Mid-Atlantic Broadband Communities, Inc. network and to the World Wide Web. The network development was

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undertaken to bring lower cost wholesale Internet services to the County and advance the County's public safety communication needs. Because of the limited number of customers connected directly to fiber, the ability to develop an agreement with a wireless provider(s) was a critical part of the viability of the internet implementation plan. In November 2013, Surry County's fiber network was lit and offered circuits to its fiber. The network has greater reliability, increased bandwidth, and costs that are significantly lower than a T1(1.Mbps) line, the method two of our community's largest employers used before transferring service to the County network. Surry County government operations, the Surry Branch of the Blackwater Regional Library, Windsor One and Edwards Ham are now all serviced by the network. The County's wireless network is facilitated by the fiber based network that will truncate at the tower base. Wireless services are offered in and around the Town of Surry by SCS Broadband. SCS Broadband has approximately 40 subscribers. In addition the County has utilized incentive grant opportunities to expand broadband access in the community.

17. Commonwealth Priorities

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. Please describe if the project fits into a larger locality or regional universal broadband plan.

Answer:

Virginia's top priorities as espoused by the governor include expanding broadband access in rural areas. Broadband expansion in rural areas can improve business, education and health care outcomes across the commonwealth, . To date there are over 600,000 Virginians that don't have access to the internet. This deficit is being reduced by a concerted effort to devote more resources to broadband expansion through initiatives like the VATI grant opportunity. Building universal broadband internet service is a priority of the Northam Administration, as evidenced by a multi million dollar multi year \$250 million plan to improve internet access across the commonwealth. The Virginia Telecommunications Initiative supports this priority The primary metric the state uses to measure impact - potential connections per public dollar, essentially a measurement of how many households, businesses or lots receive access to the internet that they didn't have before. This grant proposal performs favorably with this metric. Additionally, Surry County proposes to match every State dollar committed for the grant proposal.

18. Additional Information

Any other equitable factor that the applicant desires to include. Applicants are limited to four additional attachments. Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 – Copy of Public Notice
- c. Attachment 16 – XXXXXXXX
- d. Attachment 17 – XXXXXXXX

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e. Attachment 18 – XXXXXXXX

f. Attachment 19 – XXXXXXXX

Answer:

n/a

Attachments:

Map(s) of project area, including proposed infrastructure

PGECFOIAExemption8312019102455.zip

Map(s) or schematic of existing broadband providers (inventory of existing assets)

ISPMaps91201980152.zip

Documentation that proposed project area is not designated for Connect America Funding (CAF)

ISPMaps91201980209.zip

Documentation that proposed project area is unserved based on VATI criteria

ISPMaps91201980221.zip

Propagation Map if Wireless Project

THISISNOTAWIRELESSPROJECT8312019111750.pdf

Project Management Plan

Attachment6SurryCountyTimeline830201920632.xlsx

Documentation of relationship between applicant and co-applicant (formal or informal)

SurryCoPerformanceAgreement1PGEC816201974158.pdf

Letters of Support

SupportLetters829201934935.zip

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Documentation for in-kind contributions, including value(s)

BroadbandResolutionAPPROVED827829201924543.pdf

Funding Sources Table

VATIFundingSourcesTable9242018933238312019101637.pdf

Derivation of Cost (Project Budget)

CopyofDerivationofCostsWorksheet11162016228387242017448181829201933613.xlsx

Documentation supporting project costs (i.e. vendor quotes)

NDA91201972451.zip

Supporting documentation for costs estimates

RuralBandPGECInternetNetworkVATIPGCounty829201950116.pdf

Two most recent Form 477 submitted to FCC

FOIAExemptionInformation830201920518.pdf

Copy of Public Notice

SurrypublicnoticeVATIGrant80119816201974437.pdf

Optional

ResumesProjectTeam8282019125455392201982924.zip

Optional

TransmittalLetterCAOSurryCounty830201990145.pdf

Optional

BroadbandFundingSourceTable1829201934703.pdf

Notes:

Prince George Electric has elected to use the FOIA provisions of the Code and deliver proprietary information directly to the VDHCD

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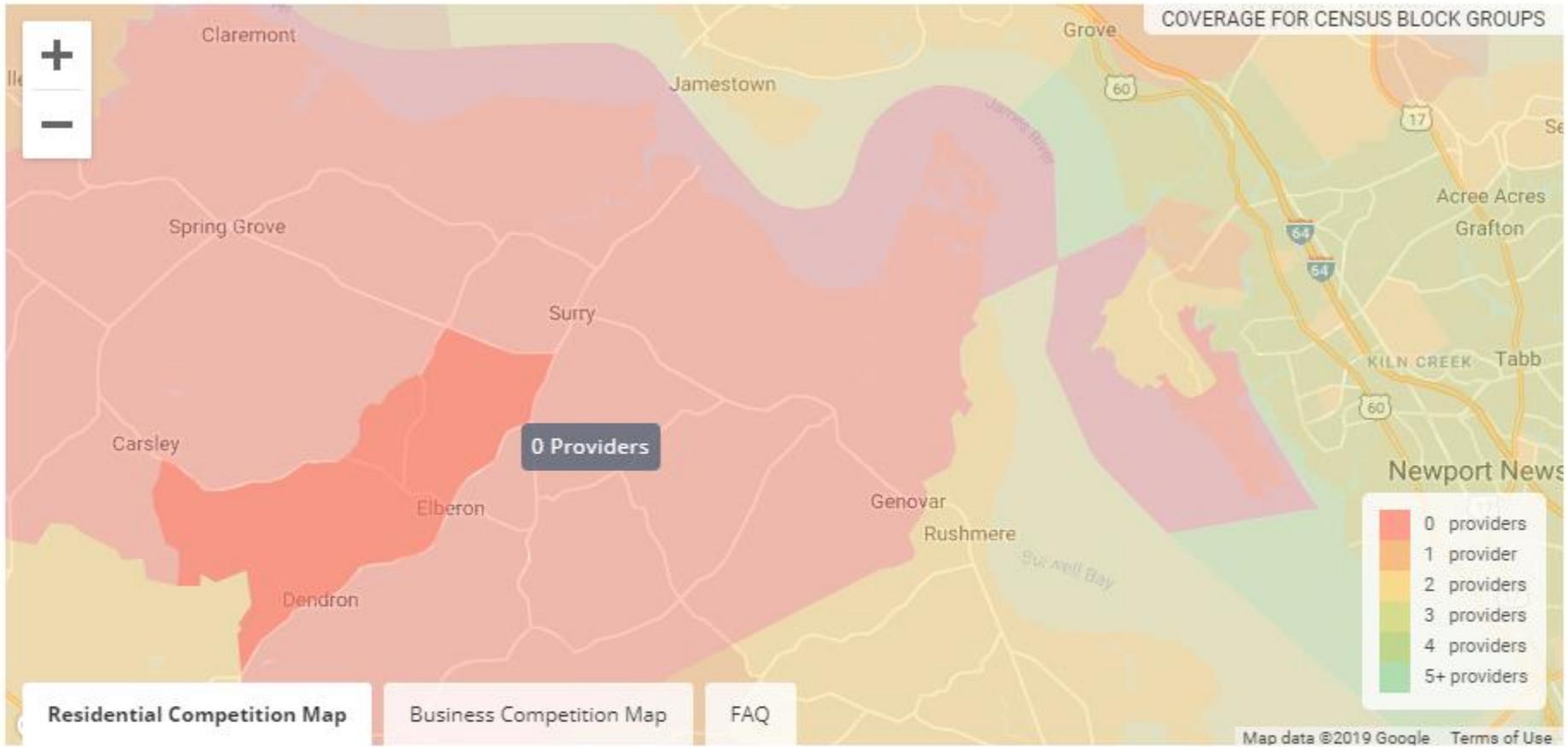
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for the VATO 2020 grant submittal. These items include project area maps, vendor costs information, promulgation maps, etc. Mrs. Melissa D. Rollins, Assistant County Administrator, will serve as the primary point of contact for this project. Mrs. Rollins can be contacted at 757-294-5273 or mrollins@surrycountyva.gov .

Surry County Project Area



Broadbandnow.com Surry County Virginia



Surry is the **518th**

most connected city in Virginia ahead of Waverly, Wakefield, and Spring Grove, but Jamsburg and Fort Eustis.

Approximately **6,000**

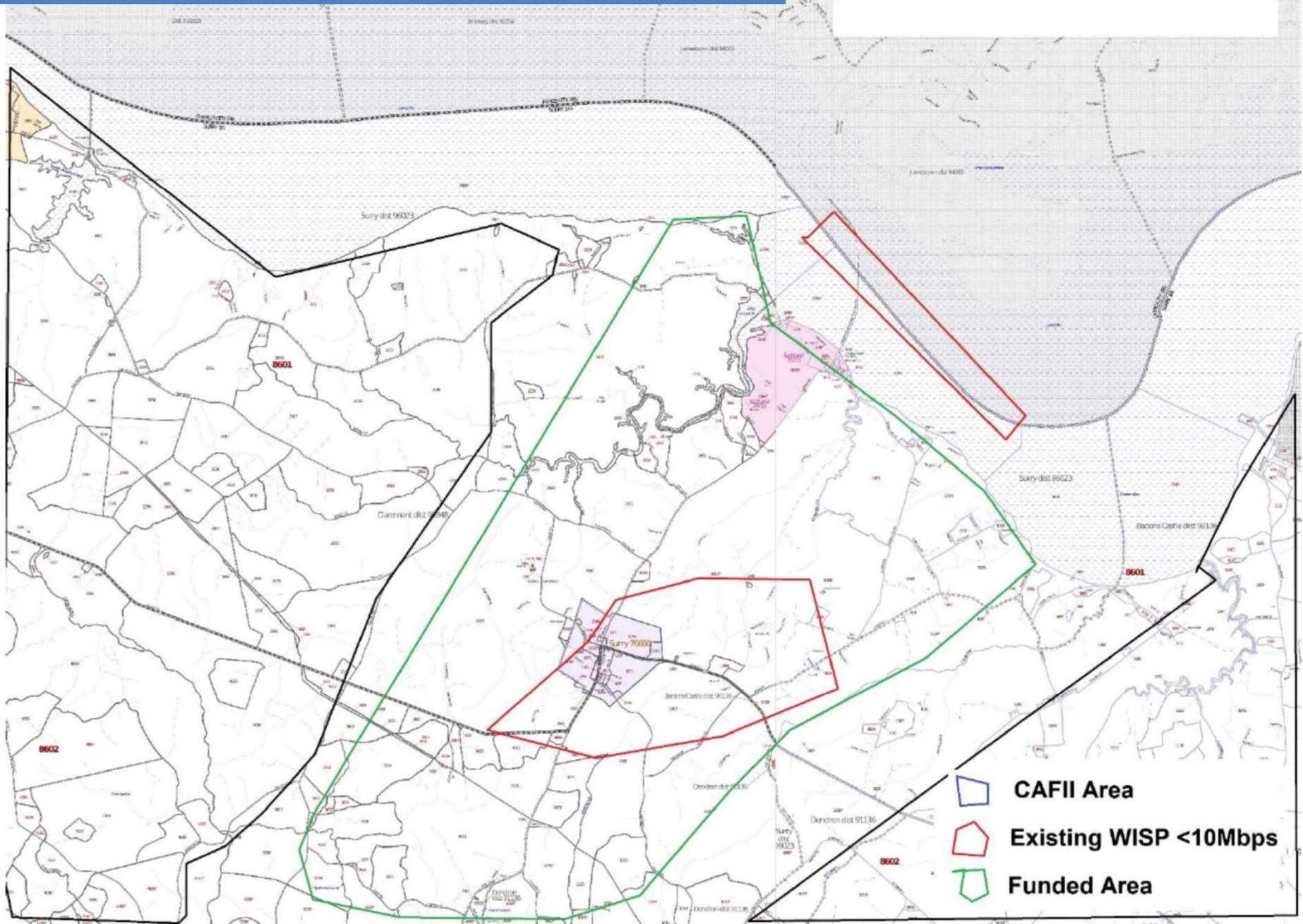
people in Surry County don't have access to any wired internet.

In Surry County, approximately **7,000**

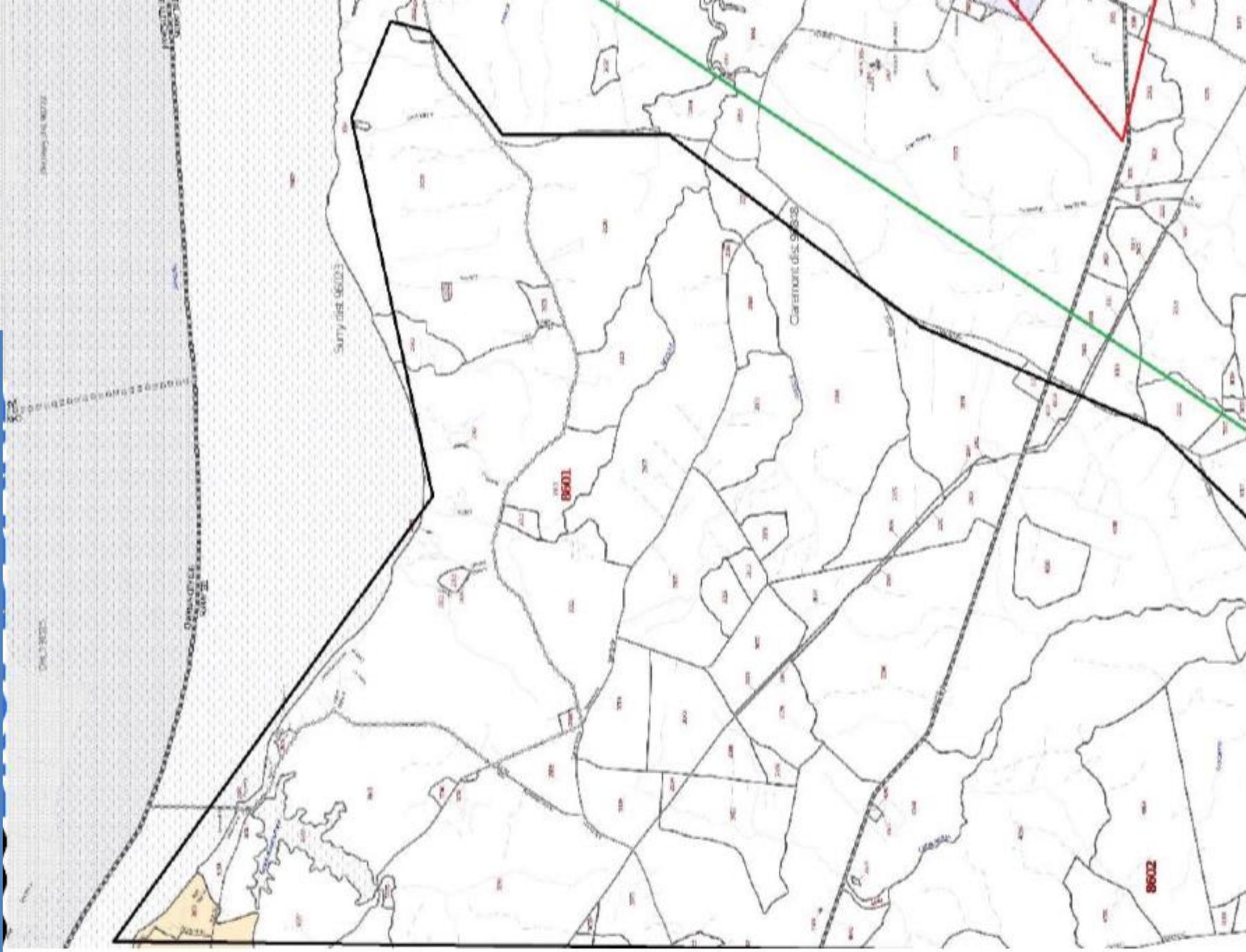
people do not have access to 25 Mbps wired broadband.

Surry County, Virginia

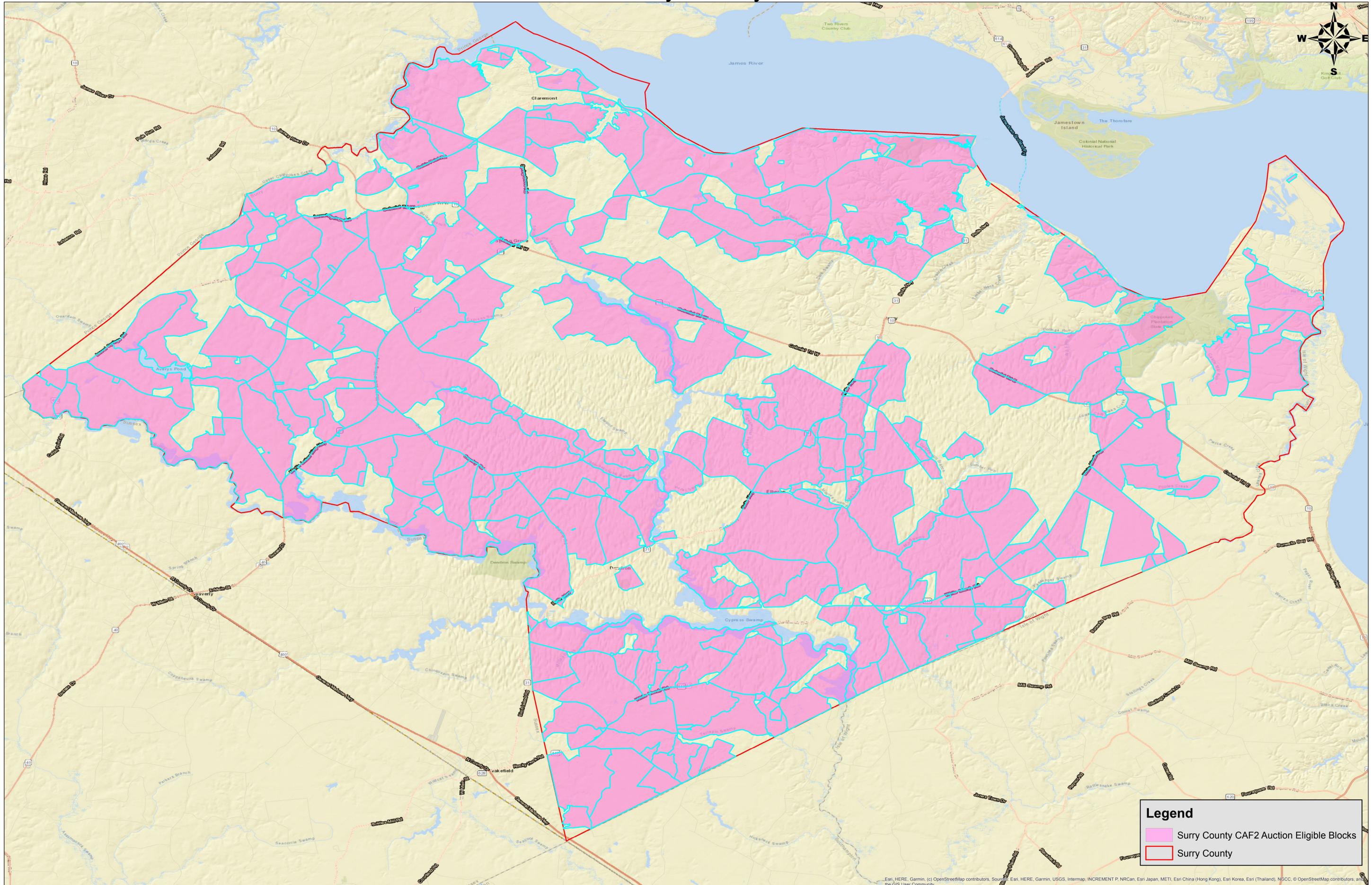
Existing ISP and CAFII Funding Map



SURRY COUNTY, VIRGINIA



Surry County



Legend

- Surry County CAF2 Auction Eligible Blocks
- Surry County

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Three maps are included in the zip folder titled ISP maps. Following is a summary of the information gleaned from each map:

Broadband Now Map

The color coded map reports that there are no current fiber internet providers in Surry County and that 6,000 people in Surry County do not have access to wired internet. Of Surry County's 2017 population of 6,540, 92% do not have internet access.

CAF II Funding Area Map

The CAF II funding area map demonstrates that Surry County falls outside of areas proposed for funding.

FCC Broadband Map

The FCC map also confirms that there are no fixed broadband providers.

N/A

THIS IS NOT A WIRELESS PROJECT

2020	Engineering	Make Ready Construction	Fiber Construction
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

Surry County VATI Project Schedule

ECONOMIC DEVELOPMENT AUTHORITY
OF THE COUNTY OF SURRY
FIBER TO THE HOME
BROADBAND EXPANSION GRANTS

PERFORMANCE AGREEMENT

This **PERFORMANCE AGREEMENT** (“Agreement”) made and entered this 2nd day of August, 2018, by and among **THE COUNTY OF SURRY, VIRGINIA** (the “County”) a political subdivision of the Commonwealth of Virginia, **PGEC ENTERPRISES, LLC** (“PGECE”) a Virginia limited liability company authorized to transact business in the Commonwealth of Virginia, and the **ECONOMIC DEVELOPMENT AUTHORITY OF THE COUNTY OF SURRY, VIRGINIA** (the “Authority”), a political subdivision of the Commonwealth of Virginia,

WITNESSETH:

WHEREAS the extension of broadband provides enhanced educational opportunities and furthers workforce development which supports economic development in Surry County; and

WHEREAS the availability of secure, reliable, competitive and sustainable infrastructure is essential to meet future broadband needs; and

WHEREAS small and medium size business enterprises with greater high-speed internet use grow faster than those with less high-speed internet use; and

WHEREAS the internet is a powerful catalyst for job creation; and

WHEREAS the internet drives economic modernization; and

WHEREAS the County and Authority wish to make funds available for the purpose of inducing PGECE to expand access through “Fiber To The Home” broadband at an accelerated

ECONOMIC DEVELOPMENT AUTHORITY
OF THE COUNTY OF SURRY
FIBER TO THE HOME
BROADBAND EXPANSION GRANTS

PERFORMANCE AGREEMENT

This **PERFORMANCE AGREEMENT** (“Agreement”) made and entered this ____ day of August, 2018, by and among **THE COUNTY OF SURRY, VIRGINIA** (the “County”) a political subdivision of the Commonwealth of Virginia, **PGEC ENTERPRISES, LLC** (“PGECE”) a Virginia limited liability company authorized to transact business in the Commonwealth of Virginia, and the **ECONOMIC DEVELOPMENT AUTHORITY OF THE COUNTY OF SURRY, VIRGINIA** (the “Authority”), a political subdivision of the Commonwealth of Virginia,

WITNESSETH:

WHEREAS the extension of broadband provides enhanced educational opportunities and furthers workforce development which supports economic development in Surry County; and

WHEREAS the availability of secure, reliable, competitive and sustainable infrastructure is essential to meet future broadband needs; and

WHEREAS small and medium size business enterprises with greater high-speed internet use grow faster than those with less high-speed internet use; and

WHEREAS the internet is a powerful catalyst for job creation; and

WHEREAS the internet drives economic modernization; and

WHEREAS the County and Authority wish to make funds available for the purpose of inducing PGECE to expand access through “Fiber To The Home” broadband at an accelerated

pace, after making a significant Capital Investment through a Fiber To The Home Broadband Expansion Grants; and

WHEREAS the County is willing to provide funds to the Authority with the expectation that the Authority will provide the funds to PGECE, provided that PGECE has agreed to meet certain performance targets relating to construction of infrastructure, and expanding access to, Fiber To The Home broadband; and

WHEREAS the County, the Authority and PGECE desire to set forth their understanding and agreement as to the payout of the Grants, the use of the proceeds of the Grants, the obligations of PGECE regarding Capital Investment and the potential for recapture or “claw back” in the event of non-performance by PGECE; and

WHEREAS, it is anticipated that the construction, equipping, operation and installation of the Fiber To The Home broadband project will require a capital expenditure of One Million Dollars (\$1,000,000.00) by PGECE; and

WHEREAS, the County and Authority desire to make an incentive grant during the Surry County 2019 fiscal year (FY19) of Five Hundred Thousand Dollars (\$500,000.00) to PGECE as an incentive for the completion of Phase I of the Fiber to the Home Broadband Project; and

WHEREAS, the County and the Authority will consider making an additional grant of Five Hundred Thousand Dollars (\$500,000.00) to PGECE as an incentive for the completion of Phase II of the Fiber to the Home Broadband Project during the Surry County 2020 fiscal year (FY20); and

WHEREAS the stimulation of additional tax revenue to the County and economic activity in the County to be generated by the Capital Investment constitutes a valid public

purpose for the expenditure of public funds and is the primary purpose of the Grants by the Authority:

NOW, THEREFORE in consideration of the foregoing, the mutual benefits, promises and undertakings of the parties to this Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties covenant and agree as follows:

Section 1 - Definitions

For the purposes of this Agreement, the following terms shall have the following definitions:

“Broadband” – a minimum broadband speed of twenty-five (25) Mbps down and three (3) Mbps up as defined by the FCC.

“Broadband Availability” - the availability of the connection necessary to access Fiber To The Home broadband for structures that are within one thousand feet of a VDOT road where an existing PG Electric pole or other access point is located.

“Consistent” - ability of service to maintain promised speeds at periods of peak use.

“Capital Investment” - a capital expenditure by or on behalf of PGECE for the installation of a Fiber Backbone and Fiber To The Home broadband infrastructure.

“Event of Force Majeure” – any circumstances beyond a party’s reasonable control, including acts of God, flood, fire, earthquake or explosion, war, terrorism, invasion, riot or other civil unrest, embargoes or blockades in effect on or after the date of this Agreement, national or regional emergency, strikes, labor stoppages, shortages or slowdowns or other industrial disturbances, passage of law or any action taken by a governmental or public authority, including but not limited to imposing an embargo, export or import restriction, quota or other restriction or

prohibition or any complete or partial government shutdown, or national or regional shortage of adequate power, telecommunications or transportation.

“Fiber Backbone” - the principal data routes between large, strategically interconnected computer networks and core routers on the Internet.

“Fiber To The Home” – installation of fiber optic wire from a central point directly to a structure to provide high-speed internet access.

“FY19” – Surry County Fiscal Year 2019, which begins July 1, 2018 and extends through June 30, 2019.

“FY20” – Surry County Fiscal Year 2020, which begins July 1, 2019 and extends through June 30, 2020.

“Phase I” - the successful completion of the necessary infrastructure in order to result in two hundred fifty (250) connections to structures located within one thousand feet of a roadway.

“Phase II” - the successful completion of the necessary infrastructure in order to result in five hundred (500) total connections to structures located within one thousand feet of a roadway, which shall include the total number of connections made during Phase I.

“Phase I Grant”- a Five Hundred Thousand Dollars (\$500,000.00) grant to PGECE by the Authority for the Capital Investment in FY19.

“Phase II Grant” - a Five Hundred Thousand Dollars (\$500,000.00) grant in addition to the Phase I Grant to PGECE by the Authority for the Capital Investment in FY20.

“Reliable” - ability to maintain service in the case of storms or system breakdowns consistent with industry standards for a rural fiber optic network.

“Roadway” – a road that is part of the Virginia Department of Transportation (VDOT) secondary system, which is immediately adjacent to a fiber network access point owned by Prince George Electric Cooperative.

Section 2 - Broadband Installation Plan.

Within sixty (60) days of the execution of this Agreement, PGECE shall provide to the Authority a broadband installation plan for installation of the Fiber Backbone, in substantial conformity with the attached map, entitled “SURRY COUNTY, Surry County Backbone Deployment,” dated August 10, 2018. The broadband installation plan shall include, but not be limited to, the locations where PGECE proposes to install broadband infrastructure, the types of materials proposed to be used, and the capacity and lifespan of the materials.

Section 3 – Broadband Subscriptions

After the effective date of this Agreement and upon payment of the Phase I Grant to PGECE, PGECE agrees to have installed and made available consistent and reliable broadband service to a minimum number of two hundred fifty (250) new subscriber structures with one (1) year subscription, within eighteen (18) months of the receipt by PGECE of the Phase I Grant.

After the effective date of this Agreement and upon payment of the Phase II Grant to PGECE, PGECE agrees to have installed and made available consistent and reliable broadband service to a total number of five hundred (500) new subscriber structures with one (1) year subscriptions, within eighteen (18) months of the receipt by PGECE of the Phase II Grant, which shall include the total number of new subscriber structures with one year subscriptions made during Phase I.

PGECE shall provide reasonable documentation to the County and the Authority annually, beginning one (1) year after receipt by PGECE of the Phase I Grant, verifying new subscribers to broadband service with a minimum of one (1) year subscriptions each.

Section 4 - No Degrading of Service

PGECE shall ensure that there is no degrading of broadband service, as defined in this Agreement, to customers during the term of this Agreement.

Section 5 - Continuation of Service/New Customers

PGECE agrees that as long as a reasonable demand exists for broadband service, PGECE will continue to provide broadband service to existing and new subscribers, who reside within one thousand (1,000) feet of a roadway as defined herein. This section shall not affect Section 3 or Section 7 of this Agreement.

Section 6 - Disbursement of Grants

(a) Notwithstanding anything in this Agreement to the contrary, the Authority will not have any obligation to disburse any portion of the Grants under this Agreement until and unless this Agreement is approved by the County's Board of Supervisors and the Authority has received such funds from the County.

(b) Subject to the delivery of the Grants by the County to the Authority, within thirty (30) days of its receipt of the Grant funds, the Authority will disburse the Grant funds to PGECE on condition that PGECE has complied with Section 2 of this Agreement.

Section 7 – Penalty and Repayment Obligation

In the event the County and the Authority fail to implement Phase II, and after the effective date of this Agreement and the receipt by PGECE of the Phase I Grant, if PGECE fails to make available consistent and reliable broadband service to two hundred fifty (250) new subscribers within eighteen (18) months of the receipt by PGECE of the Phase I Grant as set forth in Section 3 – Broadband Subscriptions of this Agreement and the Authority has elected not to implement Phase II of the project and has not paid the Phase II Grant to PGECE, then PGECE shall refund to the Authority Two Thousand Dollars (\$2,000.00) for each subscriber not provided consistent and reliable broadband service below the required two hundred fifty (250) new subscribers in Phase I.

After the effective date of this Agreement and receipt by PGECE of the Phase II Grant, if PGECE fails to make available consistent and reliable broadband service to a total of five hundred (500) new subscribers (which shall include the total number of new subscriber connections made during Phase I) within eighteen (18) months of the receipt by PGECE of the Phase II Grant, as set forth in Section 3 – Broadband Subscriptions, of this Agreement, PGECE shall be penalized and shall refund to the Authority Two Thousand Dollars (\$2,000.00) for each subscriber not provided consistent and reliable broadband service below the required five hundred (500) new subscribers in Phase I and Phase II.

Payment shall be made upon written demand by the Authority to PGECE for such repayment. Repayment shall be due from PGECE to the Authority within thirty (30) days of the date the written demand is delivered to PGECE by the Authority. Any moneys repaid by PGECE to the Authority hereunder shall be repaid by the Authority to the County. The

Authority shall have no responsibility for the repayment to the County of any sums hereunder unless said sums have been received by the Authority from PGECE.

Notwithstanding the foregoing, the repayment obligation below shall survive the termination of this Agreement and PGECE shall not be relieved from its obligations to make any repayments for non-compliance until all of PGECE's obligations have been satisfied.

In any action or proceeding brought by the County or Authority to enforce any provision of this Agreement, the County or Authority shall be entitled to recover reasonable attorney's fees in addition to any other available remedy.

Section 8 - Event of Force Majeure

PGECE shall not be penalized under Section 7 – Penalty and Repayment Obligation, of this Agreement if prevented from meeting the new subscription requirements of this Agreement on account of an Event of Force Majeure as defined herein. If such event occurs, the time for PGECE to meet the required subscription objective in either Phase I or Phase II, shall be extended for a reasonable time before PGECE is is penalized under the terms of this Agreement.

Section 9 – Sale or Assignment of PGECE

In the event of a sale or assignment of PGEC Enterprises, LLC to any person, firm or corporation prior to PGECE's fulfillment of its obligations under the terms of this Agreement, such sale or assignment shall be made expressly subject to all terms of this Agreement.

Section 10 - Discharge by PGECE of Contract Obligations

All parties hereto understand and agree that as of the date PGECE has installed and made available, consistent and reliable broadband service to a minimum of two hundred fifty (250) new subscribers under Phase I and a cumulative minimum of five hundred (500) new subscribers under Phase II, after the effective date of this Agreement and has provided reasonable documentation to the County and to the Authority verifying same, PGECE shall have satisfied in full all of the requirements of it under the terms of this Agreement and shall be discharged from any further obligations to the County and to the Authority hereunder.

Section 11 - Miscellaneous

(a) *Entire Agreement; Amendments:* This Agreement constitutes the entire agreement among the parties and may not be amended or modified, except in writing, signed by each of the parties hereto. Other than this Agreement, PGECE shall not be required to enter into any additional agreements or submit any additional application letters in order to receive the Grants.

(b) *Governing Law; Venue:* This Agreement is made, and is intended to be performed, in the Commonwealth of Virginia and shall be construed and enforced by the laws of the Commonwealth of Virginia.

(c) *Counterparts:* This Agreement may be executed in one or more counterparts, each of which shall be an original, and all of which together shall be one and the same instrument.

(d) *Severability:* If any provision of this Agreement is determined to be unenforceable, invalid or illegal, then the enforceability, validity and legality of the remaining provisions will not in any way be affected or impaired, and such provision will be deemed to be restated to

reflect the original intentions of the parties as nearly as possible in accordance with applicable law.

(e) *No Waiver.* Neither failure on the part of the County or the Authority to enforce any covenant or provision contained in this Agreement nor any waiver of any right under this Agreement shall discharge or invalidate such covenant or provision or affect the right of the County or the Authority to enforce the same right in the event of any non-performance by PGECE.

(f) *Effective Date of the Agreement.* The effective date of this Agreement shall be the date upon which it has been fully executed by the parties.

Section 12 - Notices

Any notices required or permitted under this Agreement shall be given in writing, and shall be deemed to be received upon receipt or refusal after mailing of the same in the United States Mail by certified mail, postage fully pre-paid or by overnight courier (refusal shall mean return of certified mail or overnight courier package not accepted by the addressee):

if to PGECE, to:
Micheal E. Malandro, President
PGECE Enterprises, LLC
7103 General Mahone Hwy
Waverly, Virginia 23890

with copy to:
F. Lewis Wyche, Jr., Esquire
F. Lewis Wyche, Jr., P.C.
6405 Courthouse Road
Post Office Box 160
Prince George, Virginia 23875

and:
C. J. Berkeley Horne, Esquire
LeClair Ryan
919 East Main Street, 24th Floor
Richmond, Virginia 23219

if to the County, to:
Surry County Administrator
45 School Street
Surry, Virginia 23883

with copy to:

Surry County Attorney
45 School Street
Surry, Virginia 22383

if to the Authority, to:
Surry Economic Development Authority Chair
45 School Street
Surry, Virginia 22383

with copy to:

Surry Economic Development Authority Counsel
45 School Street
Surry, Virginia 22383

IN WITNESS WHEREOF, the parties hereto have executed this Performance Agreement as of the date first written above.

PGEC ENTERPRISES, LLC, a Virginia limited liability company

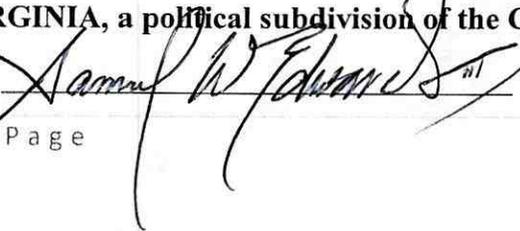
By: 

Name: M. E. Malandro

Title: Manager

Date: 9/24/18

**ECONOMIC DEVELOPMENT AUTHORITY OF THE COUNTY OF SURRY,
VIRGINIA, a political subdivision of the Commonwealth of Virginia**

By: 

Name: Somvel W. Edwards III

Title: EDA Chairman

Date: 9/17/18

**THE COUNTY OF SURRY,
VIRGINIA**, a political subdivision of the Commonwealth of Virginia

By: Tyrone W. Franklin

Name: Tyrone W. Franklin

Title: County Administrator

Date: September 17, 2018

Approved as to form: Wendy R. [Signature]



COMMONWEALTH OF VIRGINIA
HOUSE OF DELEGATES
RICHMOND

EMILY M. BREWER
POST OFFICE BOX 5
SMITHFIELD, VIRGINIA 23431
SIXTY-FOURTH DISTRICT

COMMITTEE ASSIGNMENTS:
FINANCE
MILITIA, POLICE AND PUBLIC SAFETY
SCIENCE AND TECHNOLOGY

August 23, 2019

Mr. Erik Johnston
Director
Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Dear Erik:

I am writing to strongly support the County of Surry's VATI grant application for funding. Much of Surry County does not have broadband, and this plan hopes to bring access to all of Surry. Implementing this plan will enable those citizens to join the rest of Hampton Roads and Virginia, where families can access the internet from their home.

As a member of the Broadband Advisory Council, I am fully familiar with the VATI program and I support it's goals wholeheartedly. Surry County's project aligns with the Commonwealth's goal of bringing broadband access to every Virginian and, again, I strongly support and endorse Surry County's VATI grant application.

Thank you for your consideration.

Sincerely,

Emily Brewer
Virginia House of Delegates, 64th District

Surry County Economic Development Authority
P. O. Box 65
Surry, VA 23883

August 23, 2019

Michael Drewry, Chairman
Surry County Board of Supervisors
P. O. Box 65
Surry, VA 23883

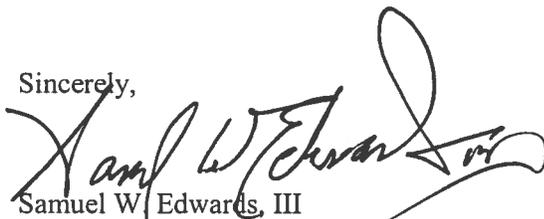
Dear Mr. Drewry:

Please allow this letter to serve as support from the Surry County Economic Development Authority (EDA) of the County's application for grant funding under the Virginia Telecommunication Initiative (VATI) to supplement construction costs by Prince George Electric Cooperative (PGEC) dba Ruralband, a private sector broadband service provider to extend service to areas currently unserved in the County.

The Economic Development Authority with the financial investment from the Board of Supervisors supported Phase I of the PGEC fiber-to-the home partnership to provide 250 connections to homes or businesses. This further extension of broadband provides enhanced educational opportunities, serves as a catalyst for job creation, fosters workforce development and drives economic modernization all of which supports economic development in Surry County.

The availability of secure, reliable, competitive and sustainable infrastructure is essential in meeting the needs of businesses and citizens is paramount. As Broadband is often referred to as a fourth utility, additional financial commitment for broadband services to reach all of Surry County is a worthwhile investment of Surry County funds to support the local match requirement up to 50% for the VATI Grant.

Sincerely,



Samuel W. Edwards, III
Chair, Surry County Economic Development Authority

cc: Members, Surry County Board of Supervisors
Jonathan Lynn, County Administrator
Melissa Rollins, Asst. County Administrator
David Harrison, Economic Development Director

From the desk of
A. Donald McEachin

August 29, 2019

Mr. Erik Johnston
Director
Department of Housing and Community Development
600 East Main Street, suite 300
Richmond, VA 23219

Dear Mr. Johnston,

I am writing to ask for your full and fair consideration of the County of Surry's 2020 Virginia Telecommunication Initiative Program (VATI) grant application. Surry County is partnering with Prince George Electric Cooperative for the first phase of a fiber-to-home project that will assist in providing broadband to homes and businesses in Surry County.

The majority of Surry County is currently underserved or unserved by broadband providing huge daily obstacles for the thousands of residents who reside there. Broadband access is essential for regional commerce, education, and public health and safety.

I applaud the Administration's goal of bringing broadband to every corner of the Commonwealth. Surry's public-private partnership with Prince George Electric Cooperative contributes to that goal.

I ask for your full and fair consideration of the County of Surry's application.

Sincerely,



Congressman A. Donald McEachin

**Supporting Surry Broadband Implementation Virginia Telecommunications Initiative Grant
Virginia Department of Housing & Community Development**

AT A REGULAR MEETING OF THE SURRY COUNTY BOARD OF SUPERVISORS HELD IN THE
GENERAL DISTRICT COURTROOM OF THE GOVERNMENT CENTER ON AUGUST 27th AT 7:00 P.M.

Present:

The Honorable Michael H. Drewry, Chairperson
The Honorable Judy S. Lyttle, Vice-Chair
The Honorable John M. Seward
The Honorable Giron R. Wooden, Sr.
The Honorable Kenneth R. Holmes

Vote:

Aye
Aye
Aye
Aye
Aye

WHEREAS, Surry County has overwhelming support from residents and the business community to provide broadband and related services throughout the County;

WHEREAS: The deployment of Broadband is at the forefront of the County's agenda as it pertains to increasing educational opportunities, supporting businesses, creating jobs, enhancing quality of life and furthering workforce development all of which drives economic development;

WHEREAS: Surry County has implemented Phase I of a Broadband Fiber to the Home Implementation Project via an agreement between the Economic Development Authority and Prince George Electric Cooperative Enterprises to provide 250 connections at a cost of \$500,000.00;

WHEREAS: Surry County has dedicated an additional \$500,000.00 in local funds in FY 19-20 to support Phase II of the Fiber to the Home Project adding 250 connections;

WHEREAS: Surry County wishes to submit a Virginia Department of Housing and Community Development Telecommunications Initiative (VATI) Grant application in the amount of \$4,450,000.00 to further expand fiber to the home broadband connectivity to areas not currently served by a broadband provider;

WHEREAS: The anticipated beneficiaries as a result of the project include 1,253 residential constituents, and

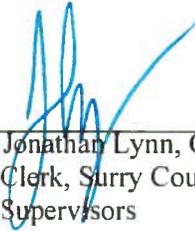
WHEREAS: Successful implementation of the grant project will result in availability to internet access availability to 100% of Surry County residents via broadband fiber infrastructure or existing wireless infrastructure; and

WHEREAS: Citizen participation requirements for DHCD funding for the project has been satisfied by advertisement of a public comment period to end on August 30, 2019 at 5:00 p.m.

NOW, THEREFORE BE IT RESOLVED, that Surry County states its intent and authorizes the submission of the Virginia Department of Housing and Community Development Community Development VATI proposal for the Surry County Broadband Implementation Project and attest to a local match of \$2,225,000.00 to support implementation of the project.

BE IT FURTHER RESOLVED, that Mr. Jonathan Lynn, County Administrator, is hereby authorized to sign and submit appropriate documents for the submittal of the Virginia Telecommunications Initiative proposal, and any subsequent contract documents to satisfy program requirements.

ATTEST:



Jonathan Lynn, County Administrator
Clerk, Surry County Board of
Supervisors

VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

Source	Amount	%	Status
REQUESTED VATI	\$ 2,225,000.00	50%	Pending
SURRY COUNTY	\$ 2,225,000.00	50%	Resolution Approved <i>INCLUDED AS ATTACHEMENT</i>
TOTAL	\$4,450,000	100 %	

CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Surry County Distribution Facilities	\$ 2,492,000	\$ 1,246,000	\$ 1,246,000	PGEB	8/16/2019
Fiber Services	\$ 1,691,000	\$ 845,500	\$ 845,500	PGEB	8/16/2019
End User Equipment	\$ 267,000	\$ 133,500	\$ 133,500	PGEB	8/16/2019
	\$ 4,450,000				
	\$ -	\$ -	\$ -		
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**SURRY COUNTY'S GRANT
PARTNER, PGEC, EXECUTED A
NONDISCLOSURE AGREEMENT
WITH ITS VENDORS SPECIFIC TO
PRICING. BECAUSE OF THIS
AGREEMENT VERIFICATION OF
VENDOR QUOTES IS NOT
SUBMITTED WITH THIS GRANT
PROPOSAL. PLEASE SEE THE
ENCLOSED EMAIL REGARDING
THIS MATTER.**

From: Renee Chapline <rchapline@pgec.coop>
To: Rhonda L. Russell <rhondaakaldy@aol.com>
Cc: mrollins@surrycountyva.gov <mrollins@surrycountyva.gov>
Subject: Re: External:Re: External:
Date: Sun, Sep 1, 2019 3:07 pm

That works. Many thanks.

Get [Outlook for Android](#)

From: Rhonda L. Russell <rhondaakaldy@aol.com>
Sent: Sunday, September 1, 2019 2:22:58 PM
To: Renee Chapline <rchapline@pgec.coop>
Cc: mrollins@surrycountyva.gov <mrollins@surrycountyva.gov>
Subject: External:Re: External:

Ok I'll include a copy of this response in lieu, if that's ok?

Rhonda

Sent from AOL Mobile Mail
Get the new AOL app: mail.mobile.aol.com

On Sunday, September 1, 2019, Renee Chapline <rchapline@pgec.coop> wrote:

No unfortunately we are not able to provide vendor quotes as we are under NDA's with some of our vendors. We provide a cost analysis for the project. After chatting with our team this is typical in the industry.

Renee

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From: Rhonda L. Russell <rhondaakaldy@aol.com>
Sent: Saturday, August 31, 2019 10:19:47 PM
To: Renee Chapline <rchapline@pgec.coop>
Cc: mrollins@surrycountyva.gov <mrollins@surrycountyva.gov>
Subject: External:

Hi Renee,

Was this document also included in the FOIA exempt items? Documentation supporting project costs (i.e. vendor quotes) . If so I just need to include a note under the upload link.

Thank you,

Rhonda

Prince George Electric Cooperative is an equal opportunity provider and employer.

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disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

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**PGEC ENTERPRISES, LLC,
DBA “RURALBAND”,
INTERNET CONNECTIVITY
NETWORK**

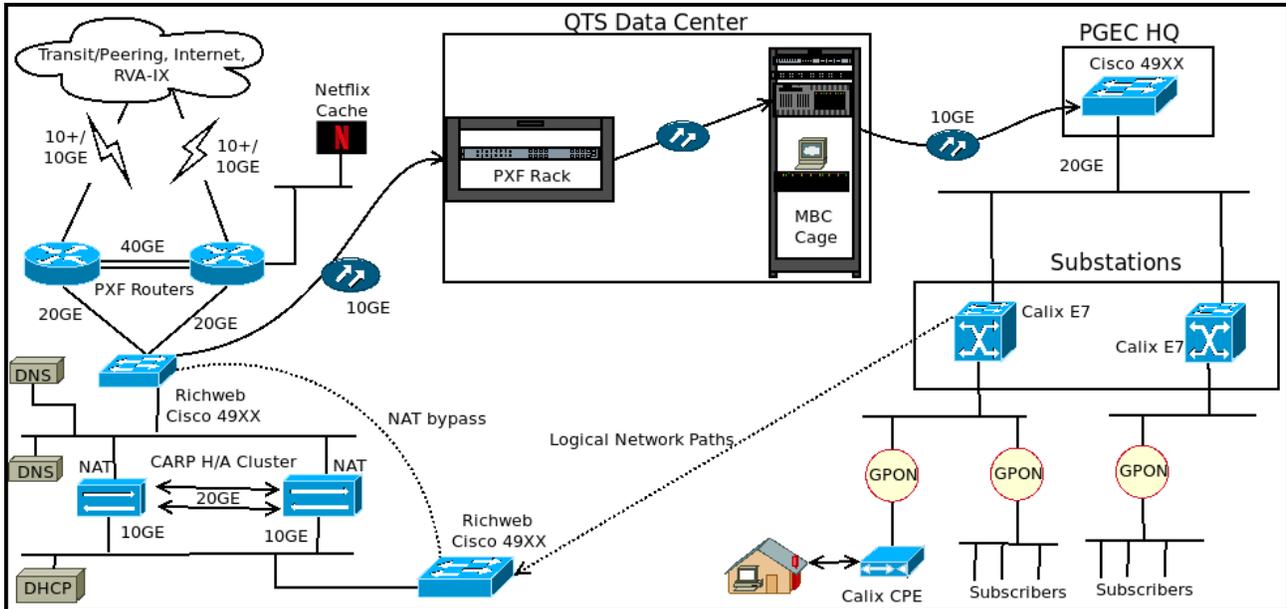
INTRODUCTION

INTERNET DELIVERY INFRASTRUCTURE:

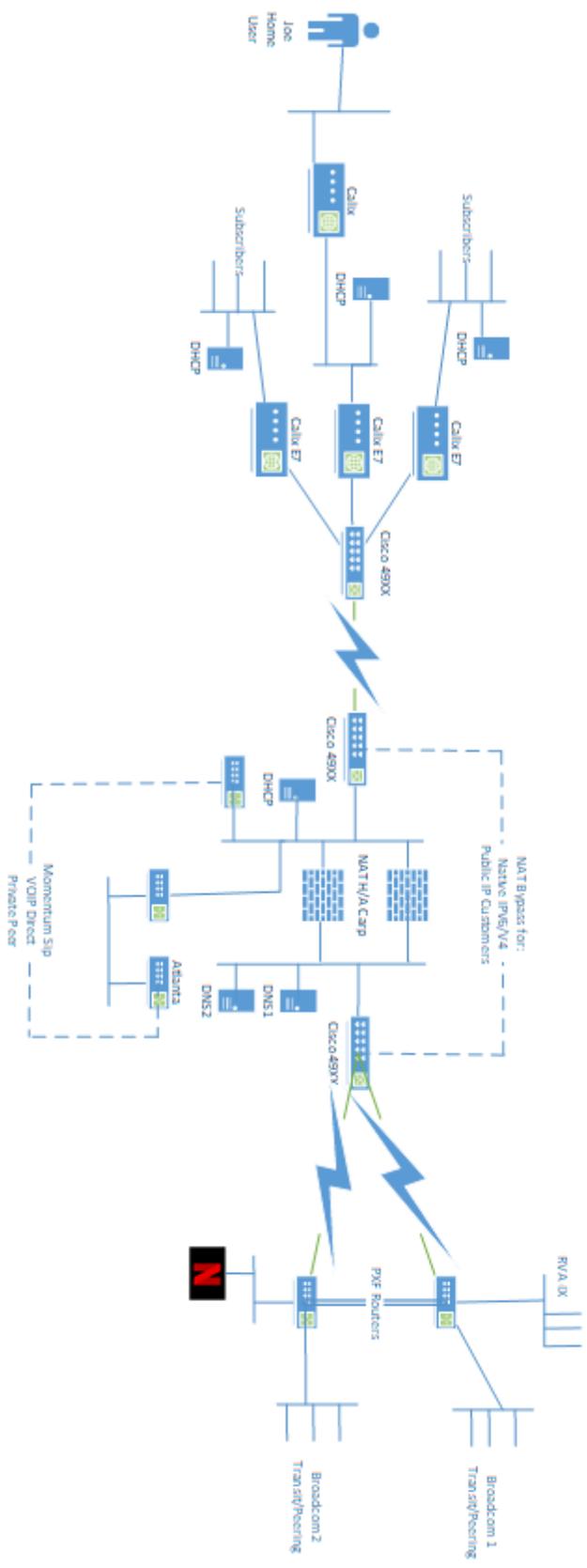
The internet access delivery infrastructure is assembled from 4 discrete subnetwork components. All equipment is connected via fiber optic cables, including to the home's optical network terminal (FTTH). This design allows us to upgrade electronics in one sub component without affecting other areas or requiring re-investment in equipment across the board. In addition to allowing smoother migrations and scaling capabilities it also allows us to implement H/A (high availability) features in each piece of the network separately. Standards based protocols (BGP, CGNAT, DHCPv6, 802.1q vlan tagging) will be used to interconnect each piece.

PGEC Enterprises, LLC, DBA "RURALBAND", will build, own and maintain all fiber optic facilities needed to reach each location. PGEC Enterprises, LLC, DBA "RURALBAND", will be utilizing a GPON technology that is engineered for a distributed split architecture. Each distributed split section, using Gpon ports from the Calix E7, will be uniquely engineered to ensure capacity for anticipated future growth. Each location will be eligible for all performance tiers, including 1G symmetrical data and telephone services. The in-home optical network terminal (Calix 844G) is equipped for both data and telephone end user services.

HIGH LEVEL DIAGRAM:



HVENS LAYER 3 Network Diagram:



NETWORK COMPONENTS:

1. Upstream Route and Peering HVENS/Pixel Factory
2. Large Scale NAT services engine (CGNAT) HVENS
3. Transport (Dark and Lit Fiber Services) MBC/Pixel Factory
4. Main Substation ring (Calix)
5. GPON subscriber rings (Calix)

1. Upstream Routing and Peering is handled on Cisco switch hardware connected in redundant 20G pathways.

2. LSN services are handled in H/A clustered (Master/Secondary) virtual appliances that do the address translation. If a hardware host or VM is unavailable, the NAT will fail over within 1 sec or less to the Secondary appliance/pathway.

3. Transport Services - this is how the fiber pathway from PGEC Enterprises, LLC, DBA "RURALBAND", is connected to Pixel Factory datacenter. Redundant MBC lit services (10G layer 2 transport) will connect PGEC Enterprises, LLC, DBA "RURALBAND", HQ to QTS datacenter in Sandston VA. This is considered a "WAVE" - multiple vlans can be carried across this WAVE. At QTS datacenter MBC will cross-connect (private fiber patch on the cross connect panel) the PGEC Enterprises, LLC, DBA "RURALBAND", port on their switch to Pixel Factory equipment. Pixel Factory will haul the service across their dark fiber to the Pixel Factory datacenter in Ashland. Inside Pixel Factory a fiber cross-connect patch will bring PGEC Enterprises, LLC, DBA "RURALBAND", HQ into the HVENS rack.

4. Main Substation ring

PGEC Enterprises, LLC, DBA "RURALBAND", will have Calix gear at each substation providing a dual-path ethernet ring to connect all substations to PGEC Enterprises, LLC, DBA "RURALBAND", HQ. 2 Substations will have single path (stub).

All internet customer traffic will be carried inside a unique private vlan for each substation. There will be a voice and data vlan at each substation.

5. GPON subscriber ring

The rings will attach the subscribers to the GPON network. This network will utilize fibers from the substation ring. Distributed splits will be located for member interconnections back to the headend. A Calix CPE will provide internet access to subscribers and perform NAT. Each distributed split port from the Calix E7, will be filled to approximately 50% capacity for future growth. At a 70% subscription rate, the redundant 10G ports to Pixel Factory will be sufficient to handle the peak usage times. If more capacity is needed, a simple upgrade of electronics will be utilized for more capacity.

DHCP EXPLANATION:

There will be 2 classes of customers, customers that need a static public ip (premium service) and standard customers which will get a CGNAT 100.64.x ip address. Standard customers will be the vast majority. They will use NAT444 (double NAT) to get translated to a public IP inside HVENS.

HVENS will also provide native ipv6 addresses to the Calix endpoints for customers that want to use v6.

HVENS will provide option 82 in DHCP (as relayed from Calix) to record the leases with subscriber information.

HVENS will provide a cisco layer 3 switch to sit at PGEC Enterprises, LLC, DBA "RURALBAND", HQ to interconnect the main Calix e7 switch to the HVENS network. This switch will break up the layer 2 domains into smaller segments. Switches have built-in limits as to the max number of MAC addresses they can handle. Note: Each subscriber = 1 MAC, 2 if using a separate interface or device for voice.

By terminating each substation's Calix subscriber vlan in a layer 3 port on the cisco switch PGEC Enterprises, LLC, DBA "RURALBAND", will be able to trade out mac table entries (layer 2) for arp table entries (layer 3) and scale up.

ENGINEERD FOR REDUNDANCY:

Redundancy options are engineered into the design to avoid single points of failure.

1. Pixel Factory has peering and transit across a wide range of 10G and faster providers and peering exchanges. Pixel Factory uses standard based BGP protocol for redundant routing.
2. Pixel Factory has redundant datacenter fabrics that the HVENS Co-Op aggregation rack attaches to at 20G on each path (total of 40G current capacity). HVENS routers peer with Pixel Factory via BGP. PGEC Enterprises, LLC, DBA "RURALBAND", will order its own dedicated IP blocks. HVENS will ensure that the IPs are announced from the PGEC Enterprises, LLC, DBA "RURALBAND", ASN (like a unique routing number that identifies PGEC Enterprises, LLC, DBA "RURALBAND").
3. HVENS servers are attached on port channels (dual physical links with per flow packet load balancing).
4. HVENS NAT appliances are clustered using OpenBSD Network Operating System (NOS) features - pf, ifstated, carp, and pfsync to allow the secondary node to take over if

the primary fails or is down for maintenance. The ifstated mechanism will allow a node to demote itself if upstream (POST-NAT) or downstream (PRE-NAT) next hop reachability is lost.

HVENS will have 2 switches in the rack (A and B paths).

5. Transport from Pixel Factory (via QTS pathway and Mid-Atlantic Fiber) to PGEC Enterprises, LLC, DBA "RURALBAND", HQ. There will be a redundant design with a 2nd pathway via a 2nd PGEC Enterprises, LLC, DBA "RURALBAND", attachment to Pixel Factory at a separate head end connection. Each pathway will utilize a 10G layer 2 transport back to Pixel Factory. These connections (middle mile) will be made through partner ships between PGEC Enterprises, LLC, DBA "RURALBAND", and Mid Atlantic Broadband.

6. There will be dual Cisco layer 3 switch terminations at the PGEC Enterprises, LLC, DBA "RURALBAND", head end that will have 2nd path redundancy.

7. PGEC Enterprises, LLC, DBA "RURALBAND", Substation ring - redundant/dual path ethernet ring. PGEC Enterprises, LLC, DBA "RURALBAND", will lease fibers from Prince George Electric Cooperative as needed to the headend and own the middle/last mile fiber to the home.

PROJECT PLAN:

Starting in January 2020, PGEC Enterprises, LLC, DBA "RURALBAND", will begin construction of the network system. PGEC Enterprises, LLC, DBA "RURALBAND", has approximately 315 locations that will be provided fiber broadband and telephone services. The middle mile and last mile fiber system will be built out concurrently with all the locations served by year end 2020.

VOIP NETWORK:

Momentum is the voip provider PGEC Enterprises, LLC, DBA "RURALBAND", will use. There will be a private peer between Pixel Factory (AS32425) and Momentum in Atlanta, GA. Pixel Factory has a 10G connection into 56 Marietta and Momentum is one suite/building over. Arrangements are made for a private cross connect over which Pixel Factory can BGP peer with Momentum. In addition, there will be a private vlan for PGEC Enterprises, LLC, DBA "RURALBAND". This vlan will allow direct ip connectivity between Momentum (the SIP carrier) and the CPE (customer prem gear) at the subscriber homes.

HVENS will pass out RFC1918 private addresses to the CPE voice gateways and allow Momentum to connect INSIDE the CGN layer. Each substation will have 2 subscriber vlans - 1 for data and 1 for voice. The data DHCP scope will use CGNAT 100.64 IP space and the voice DHCP scope will use 10.x or 172.16-31.x RFC1918 space.

Momentum will not have to pass thru the CGNAT / NAT444 appliances; they will be able to see the CPE voice gateways directly at layer2/layer 3.

HVENS will route the vlans direct to Momentum over the private peering with a GRE tunnel in place as failover in the event the cross-connect is down or another piece of gear or fiber pathway is down.

GLOSSARY

CGN/LSN: Carrier Grade Nat/Large Scale Nat is an approach by ISPs to assign their customers private IP addresses that are translated to public IP addresses embedded in the ISP network instead of at the customer's site.

Dark Fiber: Dark fiber refers to unused fiber-optic cable. It is not connected or controller by the owner. Instead, the equipment must be provided by the customer.

GRE: Generic Routing Encapsulation

HA: High Availability is a characteristic of a system, which aims to ensure an agreed level of operational performance, usually uptime, for a higher than normal period.

HVENS: High Velocity Edge Networking Services (Service offering defined by RichWeb <http://richweb.com/>)

LACP/Bond: Link Aggregation Control Protocol is a method of combining two or more connections to increase throughput. It also provides redundancy should one of the links fail. Bonding or Port-Channeling are methods that use LACP.

Lit Fiber: Lit fiber refers to fiber that has been connected by a carrier and has active wavelength(s) of light traversing it.

MBC: Mid-Atlantic Broadband Communities Corporation <https://mbc-va.com/>

NVF/VNF: Network virtual function focuses on optimization of network services.

Peering: The interconnection of separate ISP networks for the purpose of exchanging traffic.

PxF: Pixel Factory Data Center <http://pixelfactorydc.com/>

QTS: QTS Realty Trust, Inc. <https://www.qtsdatacenters.com/>

RVA-IX: Richmond Virginia Internet Exchange <http://rva-ix.net/>

(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0026799551 | Data as of: Dec 31, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Mar 7, 2019 08:07:55

Filer Identification

Section	Question	Response
Filer Information	Provider Name	PGEC Enterprises, LLC
	Holding Company Name	Prince George Electric Cooperative
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Casey Logan
	Data Contact Phone Number	(804) 834-2424 ext: 1003
	Data Contact E-mail	clogan@pgec.coop
Emergency Operations Contact Information	Emergency Operations Name	Casey Logan
	Emergency Operations Phone Number	(804) 834-2424 ext: 1003
	Emergency Operations E-mail	clogan@pgec.coop
Certifying Official Contact Information	Certifying Official Name	Casey Logan
	Certifying Official Phone Number	(804) 834-2424 ext: 1003
	Certifying Official E-mail	clogan@pgec.coop

Confidential

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	PGEC_fbdd_2018Q4_030419.csv	Mar 5, 2019 13:33:58	182
Fixed Broadband Subscription	PGEC_fbsd_2018Q4_030419.csv	Mar 5, 2019 12:17:14	3

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Prince George Electric Coop	Optical Carrier/Fiber to the End User	182
Total			182

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Virginia	Optical Carrier/Fiber to the End User	3	328	0	328
Total		3	328	0	328

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
30.000	30.000	328	0	328
Total		328	0	328

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	30.000	30.000	328	0	328
Total			328	0	328

Confidential

(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0026799551 | Data as of: Jun 30, 2018 | Operations: Non-ILEC | Submission Status: Original - Submitted | Last Updated: Aug 27, 2018 17:33:24

Filer Identification

Section	Question	Response
Filer Information	Company Name	PGEC Enterprises, LLC
	Holding Company Name	Prince George Electric Cooperative
	SAC ID	
	499 ID	
Data Contact Information	Data Contact Name	Casey Logan
	Data Contact Phone Number	(804) 834-2424 ext: 1003
	Data Contact E-mail	clogan@pgec.coop
Emergency Operations Contact Information	Emergency Operations Name	Casey Logan
	Emergency Operations Phone Number	(804) 834-2424 ext: 1003
	Emergency Operations E-mail	clogan@pgec.coop
Certifying Official Contact Information	Certifying Official Name	Casey Logan
	Certifying Official Phone Number	(804) 834-2424 ext: 1003
	Certifying Official E-mail	clogan@pgec.coop

Confidential

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	FCCForm477_June2018.txt	Aug 27, 2018 17:28:48	152
Fixed Broadband Subscription	Interactive data entry		1

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	PGECEnterprises	Optical Carrier/Fiber to the End User	152
Total			152

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Virginia	Optical Carrier/Fiber to the End User	1	240	0	240
Total		1	240	0	240

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
30.000	30.000	240	0	240
Total		240	0	240

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Optical Carrier/Fiber to the End User	30.000	30.000	240	0	240
Total			240	0	240

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Surry County VATI Grant Application Public Comment Notice

Surry County intends to apply for a 2020 Virginia DHCD Virginia Telecommunications Initiative grant to support the deployment of broadband service in the underserved areas of the county.

THE SURRY COUNTY BOARD OF SUPERVISORS intends to partner with Prince George Electric Cooperative (PGEC) and file a grant application with the Virginia Department of Housing and Community Development (DHCD) for funding from the 2020 Virginia Telecommunication Initiative Program (VATI). The primary objective of the VATI is to provide financial assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that presently are unserved by any broadband provider. The project will be an extension of the current fiber-to-the home project currently underway.

Surry County consist of 310 square miles, nearly all the area is unserved or underserved by broadband. In 2018, the Economic Development Authority with support from the Board of Supervisors entered into an agreement with PGEC Enterprises for Phase I of a fiber-to-the home partnership to provide connections to homes or businesses. The purpose of the public-private partnership of Surry County and PGEC Enterprises dba Ruralband, along with other local municipal partners, is to achieve the goal of having 100% of the Prince George Electric Cooperative service area in the county served by fiber-to-the-home. Additionally, PGEC Enterprises dba Ruralband will install fiber lines and will own and maintain the fiber system for the County. PGEC Enterprises dba Ruralband will provide internet service and handle all maintenance and billing. PGEC Enterprises dba Ruralband proposes at a minimum to offer three levels of broadband speeds: 50 mbps/50 mbps upload, 100 mbps/100 mbps upload, and up to 1 Gbps/1 Gbps upload. The proposed project must target unserved areas defined as having broadband speeds of 10 Megabits per second (Mbps) download and 1 Mbps upload or less to areas not currently covered in the County. PGEC Enterprises will be working with the County on providing the geography of the project and other details.

The application will be submitted by the September 3, 2019 deadline. In accordance with requirements of VHCD, the public is invited to submit written comments on the proposed 2020 VATI grant application. To provide a record, comments should be addressed to Melissa Rollins, Asst. County Administrator, preferably by email: mrollins@surrycountyva.gov. Comments may also be sent by letter to Melissa Rollins, P. O. Box 65, 45 School Street, Surry, VA 23883 or by calling 757-294-5273. Public comment period will be open from August 3, 2019 to August 30, 2019. A complete list of comments will be sent to VDHC. After the application submission deadline has passed and before project approval, the agency will post electronic copies of the applications on its website. Any private sector service provider wishing to request that DHCD deem a proposed project area as ineligible for VATI must submit a challenge with the information required in this section no later than 5:00 p.m. on October 9, 2019. DHCD will have 30 business days to validate a challenge.



"The Countrie it selfe, I must confesse is a very pleasant land, rich in commodities; and fertile in soyle..."

Samuel Argall, ca. 1609

County of Surry

45 School Street, P. O. Box 65
Surry, VA 23883

www.surrycountyva.gov

Phone: 757-294-5271

Fax: 757-294-5206

Board of Supervisors

Michael A. Drewry, Chair

Judy S. Lyttle, Vice-Chair

Kenneth R. Holmes

John M. Seward

Giron R. Wooden, Sr.

Jonathan Lynn

County Administrator

September 3, 2019

Dear Grant Review Committee:

Surry County is grateful for the opportunity to submit this VATI grant application for consideration by the Department of Housing and Community Development. Surry County as a rural community is challenged to provide solutions and opportunities for reliable broadband to service all citizens and businesses. While we continue to seek methods that will provide services to all of our citizens, we believe the targeted approach outlined in the proposal provides an appropriate path to provide broadband services at speeds that will: (1) enhance educational opportunities; (2) give residents the services they desire for daily enjoyment and quality of life; and (3) sustain and attract people and business in the County.

The Surry County Board of Supervisors unanimously supports our partnership with Prince George Electric Cooperative Enterprises (PGECE) who our community already has a performance agreement for a current fiber to the home broadband expansion project. A resolution supporting a 50% local match (\$2,225,000.00) is included with the application. We believe that the proven record of PGECE to successfully accomplish similar projects in neighboring communities combined with the near completion of Surry's project under the aforementioned agreement provides an opportunity to deploy broadband to our citizens and business community in a manner that meets all grant requirements.

We sincerely appreciate your consideration of our application. Please do not hesitate to contact us if you have any concerns or questions about our proposal.

Sincerely,

Jonathan Lynn
County Administrator

Melissa Rollins
Asst. County Administrator

"Take the Rural Route to Success"

Source	Amount	%	Status of Funding Source
Surry County Board of Supervisors General Fund	\$1,725,000	39%	Supported via Resolution
Surry County Board of Supervisors General Fund	\$ 500,000	11%	Approved in the FY 19-20 Budget for the current fiber to the home expansion project with PGEC Enterprises
Requested VATI Grant Funds	\$2,225,000	50%	Pending approval of application
Total	\$4,450,000*	100%	
*Total Budget Components			
Surry County Distribution Facilities	\$2,492,000	56%	
Fiber Services	\$1,691,000	38%	
End Use Equipment	\$ 267,000	6%	
Total Costs	\$4,450,000	100%	

Biography Rhonda L. Russell, RRM Consultants

Ms. Rhonda L. Russell, was awarded a doctoral degree in Organizational Leadership/Human Services Administration at the NOVA Southeastern University Fischler College of Education, and was appointed by the Honorable Terry McAuliffe, Virginia Governor, to the Virginia Birth-Related Neurological Injury Compensation Board, an independent organization created by the Virginia General Assembly. The Virginia Birth-Related Neurological Injury Compensation Program is governed by a nine member board appointed by the Governor. The program's founding purposes include – holding down malpractice insurance costs, assuring access to obstetrical services and high quality care for children and admitted claimants over their life-time. The Virginia Birth-Related Neurological Injury Compensation Program, was the first of its kind nationally and has reserve funds of more than \$400 million. Ms. Rhonda L. Russell, a life-long resident of the Commonwealth of Virginia, currently serves as the Assistant Director Planning-Comprehensive Planning and formerly as the Director of Planning & Community Development, Surry County Virginia for fourteen years. Ms. Russell has served previously in Hampton, VA, and Elizabeth City, NC in capacities of Division Manager or Department Director for more than fifteen years. Ms. Russell has extensive public service experience primarily in local government and grantsmanship, as well as instructional experience as both a full time Professor and Adjunct Faculty Member at Hampton University, Stratford University, and the University of Phoenix. Ms. Russell has studied at Virginia Tech (Urban Planning), Blacksburg, Virginia, Old Dominion University (Public Administration), Norfolk, Virginia and Nova Southeastern University (Organizational Leadership/Human Services), Fort Lauderdale, Florida. Her passions include disability services, life-long learning, excellence in service and her adult sons. Ms. Russell is a member of the American Institute of Certified Planners, the American Society of Public Administrators, Conference of Minority Public Administrators, International City Managers Association, Alpha Kappa Alpha, Sorority, Inc., Lambda Omega Chapter, and Cathedral of Faith, Chesapeake, Virginia.

Delon M. Brown

1240 Eagle Pl • North Prince George, VA 23860 • (804) 896-4719m • delonbrown@gmail.com

**RESULTS-PROVEN INFORMATION TECHNOLOGY PROFESSIONAL: COMPTIA, MICROSOFT, DELL, AND SIX SIGMA CERTIFIED.
WITH OVER 10 YEARS OF EXPERIENCE WITH A WIDE VARIETY OF SMALL TO MEDIUM SIZED BUSINESS AND ENTERPRISE
NETWORK INFRASTRUCTURES.**

SUMMARY OF QUALIFICATIONS

- Excellent Project Management & Leadership Skills
- Great Attention to Detail
- Enterprise Migration Experience
- Able to repair, install, upgrade, and maintain desktop and notebook computers as well as printers and scanners.
- Expert In End-User Training
- Analytical Thinking And Problem Solving Skills
- Superb Leadership Skills & Customer Service
- Asset Tracking and Management
- Proficient in Microsoft Office, VDI, LANDesk, SCCM, McAfee etc.

PROFESSIONAL EXPERIENCE

Virginia College, RICHMOND, VA

Jan 2015 – Dec 2018

IT SUPPORT SPECIALIST I

Responsibilities include providing technical and problem resolution support for campus administration staff and student computers, communication systems, local server, wireless and wired network, routers, and firewalls. Additional duties include supporting other campuses remotely that are owned by ECA, ordered all computer and communication equipment, liaise with vendors, and serve as primary resource for onboarding new employees, as well as, termination of an employee.

- Serve as primary technology resource for business continuity planning and testing as well as primary resource for actual emergencies such as server or network being down.
- Perform all required logging and incident documentation required for proper analysis and follow-up.
- Perform activities with regard to security systems such as the badge access system and camera surveillance system.
- Serve as primary backup resource to corporate resident Microsoft System Engineer for server maintenance to include upgrades and patches.
- Perform on-site analysis, diagnosis, and resolution of all computer/ VOIP communication systems and network interfaces.
- Participate in various IT projects that are particular to my campus and also with other campuses when needed.
- Participate in weekly team meetings as the IT representative for the IT steering committee for my region and hold weekly meeting with the Campus President.
- Responsible for creating training material and holding training classes for Office365 applications such as OneDrive for Business, OneNote, using Excel and Word online, etc.

NTS Inc./ Richmond City Public Schools, RICHMOND, VA

Dec 2010 – Dec 2014

DESKTOP TECHNICIAN

On a daily basis troubleshoot, maintain and repair desktops, laptops, tablets, printers, audio/video, cellular phones, and hand held devices. Serve as primary IT representative for the Richmond Public Schools superintendent and Central Office. Responsible for providing advanced expert level technical services and resolutions to the 24,000+ end-user environment.

- Migrated over 1800 Windows XP machines to Windows 7 in order to ensure compliance by utilizing LANDesk, Ghost and manual imaging techniques while providing profile backups, software installation and profile migration for a seamless transition to the Customer. Established Printer Naming convention for Active Directory Implementation. Lead a five man team which setup, configured, installed and tested all printers on the printer server for 52 educational locations.
- Implemented company policies, technical procedures and standards for preserving the integrity and security of data, reports and access. Consistently met deadlines and requirements for all production work orders. Served as operating system expert, providing technical support for entire organization.

- Provide troubleshooting on software applications for all users to include Mac OSX, Microsoft Windows, Microsoft Office and various desktop software applications. HR & Finance database applications such as OnBase and AS400, Address workstation, server, and network connectivity issues. Install and relocate end-user devices. Provide one-on-one training. Manage conference room setup for corporate Audio/ Video presentations and conferences, meetings, and webinars.

Rose Of Sharon Church, WAVERLY, VA

Aug 2002 – Present

SYSTEMS ADMINISTRATOR/OPERATIONS COORDINATOR

Providing coordination and direction for continuous improvement initiatives by analyzing and improving the processes and tools supporting the ROSAC Church & Administration. Developed and maintain website.

- Set-up and support peripherals including printers, scanners. Which includes direct-connect and networked hardware. Proactively administer, configure, and maintain Microsoft Active Directory and Group Policy environment.
- Configure and Troubleshoot Remote Access configurations and access problems using remote access software such as VPN or Remote Desktop Connection.
- provide timely and accurate PC and network solutions for both the ROSAC Campus and the Virtual Campus
- Onsite PC and Network troubleshooting and repair
- Wireless network installations and configuration
- Windows Server 2012 Essentials installation and Maintenance
- Microsoft Exchange support
- Active Directory User Maintenance and support
- Virtualization projects (VMware, Hyper-V)
- SonicWall Firewall Installations and Support

VCU Health System, RICHMOND, VA

Mar 2006 – Dec 2010

CLINICAL DESKTOP SUPPORT ENGINEER

Responsible for providing advanced expert level customer service to the VCU Health System. Duties include troubleshooting and resolving IT related problems and installing, repairing, maintaining, and upgrading desktop and notebook computers and various models of printers. Worked on the moves, adds, and changes team that installed and configured every desktop, laptop, tablet, printer, COW (computers on wheels), that was deployed in all internal and external locations. Provided Asset management and trained new end users on the software titles and hardware in the clinics, registration areas, and ER facility.

- Configured Desktop Computers, McKesson Radiology Devices, Laptops, Tablets, and Panasonic Toughbooks for client usage.
- Successfully performed general troubleshooting and maintenance for novice and expert users on multiple platforms such as Linux, Microsoft Windows, Mac OSX.
- Coordinated hardware and software rollouts for clinical departments.
- Installed clinical specific software applications such as Citrix XenApp, Mckesson, ORMIS, RADNet, AS400, PACS, McAfee, Cerner, Dameware, Cognos, GE IDX, IDX Term, Cerdian, Lotus Notes 6.5-7.3, SMS, and SCCM software packages, also specialized application for the departments like Sharepoint, and Infopath.
- Installed, configured, and performed troubleshooting on the following printers: HP LaserJet Models 4000 Series, 4100, 4200, 4300 Series, 8000, 8150, 4014, and 4515.

Bell Industries/ Henrico County Public Schools, RICHMOND, VA

Aug 2002 – Sept 2006

SENIOR MACINTOSH SERVICE TECHNICIAN

Responsible for performing advanced level tier hardware troubleshooting on Macintosh IBook's and PowerBooks.

- Provided component level replacement for hardware, resolution on workstations, notebook computers.
- Installed hardware and software upgrades.
- Performed bench diagnostics/technical approval for repairs. Performed final quality assurance testing.

EDUCATION, CERTIFICATIONS, & ADDITIONAL SKILLS

TECHNICAL DIPLOMA DEGREE, BETA TECH CAREER TRAINING CENTER

COMPTIA A+ CERTIFIED



MICROSOFT MCTS CERTIFIED



SIX SIGMA WHITE BELT CERTIFIED



**Six Sigma White Belt
CERTIFIED**



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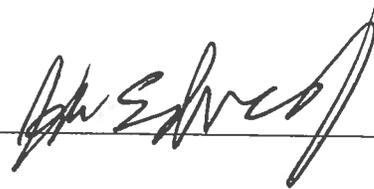
SURRY COUNTY
ADMINISTRATOR'S OFFICE

TO WHOM IT MAY CONCERN:

This is to certify that the attached Legal Notice was published in The Smithfield Times, Smithfield, Virginia, on the following dates:

August 7, 2019

Publisher



**SURRY COUNTY
VATI GRANT APPLICATION
PUBLIC COMMENT NOTICE**

Surry County intends to apply for a 2020 Virginia DHCD Virginia Telecommunications Initiative grant to support the deployment of broadband service in the underserved areas of the county.

THE SURRY COUNTY BOARD OF SUPERVISORS intends to partner with Prince George Electric Cooperative (PGECC) and file a grant application with the Virginia Department of Housing and Community Development (DHCD) for funding from the 2020 Virginia Telecommunication Initiative Program (VATI). The primary objective of the VATI is to provide financial assistance to supplement construction costs by private sector broadband service providers, in partnership with local units of government to extend service to areas that presently are unserved by any broadband provider. The project will be an extension of the current fiber-to-the-home project currently underway.

Surry County consist of 310 square miles, nearly all the area is unserved or underserved by broadband. In 2018, the County Board of Supervisors with support of the Economic Development Authority entered into an agreement with PGECC Enterprises for Phase I of a fiber-to-the home partnership to provide connections to homes or businesses. The purpose of the public-private partnership of Surry County and PGECC Enterprises dba Ruralband, along with other local municipal partners, is to achieve the goal of having 100% of the Prince George Electric Cooperative service area in the county served by fiber-to-the-home. Additionally, PGECC Enterprises dba Ruralband will install fiber lines and will own and maintain the fiber system for the County. PGECC Enterprises dba Ruralband will provide internet service and handle all maintenance and billing. PGECC Enterprises dba Ruralband proposes at a minimum to offer three levels of broadband speeds: 50 mbps/50 mbps upload, 100 mbps/100 mbps upload, and up to 1 Gbps/1 Gbps upload. The proposed project must target unserved areas defined as having broadband speeds of 10 Megabits per second (Mbps) download and 1 Mbps upload or less to areas not currently covered in the County. PGECC Enterprises will be working with the County on providing the geography of the project and other details.

The application will be submitted by the September 3, 2019 deadline. In accordance with requirements of VHCD, the public is invited to submit written comments on the proposed 2020 VATI grant application. To provide a record, comments should be addressed to Melissa Rollins, Asst. County Administrator, preferably by email:

...@surrycountyva.gov

U19-123D
Aug 7/1TC

Biography Melissa D. Rollins, Assistant County Administrator

Melissa D. Rollins is the Assistant County Administrator for Surry County, having served in the role since May 2017. Prior to serving in this capacity, Melissa served six years as the Director of Finance for the City of Franklin after leaving a 16-year tenure as Surry County's Director of Finance & Information Technology. She holds a master's degree in Public Administration from Old Dominion University. She was instrumental in the County and City receiving first time accreditations from the Government Finance Officers Association for Distinguished Budget Presentation and Excellence in Financial Reporting. As the Assistant County Administrator for Surry County, she is actively engaged in Economic Development initiatives, project specials and has managerial oversight over Economic Development, Information Technology and Finance Departments. Successful grant writing experience include application to the Virginia Economic Development Partnership for industrial park site assessment and characterization grant awards and to the Obici Healthcare Foundation for healthy community grant awards. She has been accepted as an ICMA Credentialed Manager Candidate and has professional memberships with the Virginia Economic Development Association and the International Economic Development Council. She also serves on the Board of Directors for the Obici Healthcare Foundation. Her goal in life is to simply make a positive difference to others.

Electric Utility Career Resume

Robert H. Hall

PO Box 168
Waverly, VA 23890

Cell: (804) 895-0104
Email: rhall@pgec.coop

Fax: (804) 834-3544
Office: (804) 834-2424x 1016

Career History:

PGEC Enterprises LLC, Vice President: Waverly, Virginia; December 2016 to Present.

Prince George Electric Cooperative, Waverly, Virginia; May 2007 to Present.

VP and CFO – November 2014 – Present

Manager of Corporate Services – May 2007 – November 2014

Dominion Energy: April 1998-May 2007

Manager of Accounting - Dominion Retail, Inc. – September 2001 – May 2007

Financial Analyst – Virginia Power, Inc. – April 2000 – September 2001

Accountant – Virginia Power, Inc. – April 1999 – April 2000

Professional Accomplishments

Passed Virginia CPA Exam May 1999

Education:

Bachelor of Science Business Administration - Accounting 1992
Longwood University – Farmville, Virginia

Electric Utility Career Resume

Cary “Casey” J Logan Jr, P.E.

PO Box 168
Waverly, VA 23890

Cell: (804) 731-9117
Email: clogan@pgec.coop

Fax: (804) 834-3544
Office: (804) 834-2424x 1003

Career History:

PGEC Enterprises LLC, Waverly, Virginia;

President – April 2019 – Present

VP of Operations – December 2016 – March 2019

Prince George Electric Cooperative, Waverly, Virginia;

President and CEO – April 2019 – Present

VP of Engineering – July 2015 – March 2019

South Carolina Eclectic and Gas, Engineer: Columbia, SC 2006 – 2015

Square D, Engineer: Columbia, SC 2003 – 2006

Nan-YA Plastics, Engineer: Lake City, SC 2002 – 2003

Professional Affiliations:

Professional Engineer - licensed in the state of South Carolina and Virginia

Education:

Master of Business Administration Engineering - 2008
University of South Carolina; Columbia, SC

Bachelor of Science Electrical Engineering - 2002
University of South Carolina; Columbia, SC

Biography Jonathan Lynn, County Administrator

Jonathan Lynn is a local government manager with over 15 years of government experience in Georgia and Virginia, where he currently serves as County Administrator in Surry County, Virginia. With a background in planning and community development, he continues to take pride in public service projects that are collaboration based and meet those community needs previously unaddressed. He holds a B.A. in Political Science and a Master's of Public Administration, both from Georgia Southern University.