

RECIPIENT NAME: Virginia Tech Foundation, Inc.

AWARD NUMBER: NT10BIX5570016

DATE: 01/10/2014

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 6/30/2015

ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570016	3. DUNS Number 074747908
4. Recipient Organization Virginia Tech Foundation, Inc. 902 Prices Fork Road STE 400, Blacksburg, VA 24060-3260		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2013	6. Is this the last Annual Report of the Award Period? <input checked="" type="radio"/> Yes <input type="radio"/> No	
7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.		
7a. Typed or Printed Name and Title of Certifying Official Pat Rodgers	7c. Telephone (area code, number and extension) 5402311709	
	7d. Email Address prodgers@vt.edu	
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 01-10-2014	

OVERALL PROJECT PERFORMANCE INDICATORS

1. Please provide the following average cost figures for your project. Please review the instructions to determine how to calculate these figures. Write "0" in the second column and "N/A" in the third column if your project does not yet have this information. Depending on whether your project contains Middle Mile and/or Last Mile components, some metrics may not apply. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Cost Indicator	Average Cost / Speed	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Average cost per new mile (Middle Mile)	33695	Average cost is less than baseline because of lower than expected bid prices and baseline estimate included in all grant costs.
Average cost per household passed (Last Mile)	0	N/A
Average cost per subscriber (Last Mile)	0	N/A
Maximum broadband speed advertised (Middle Mile)	10Gbps	10 mbps - 100 mbps - Open Access
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	105 mbps	10 mbps - 100 mbps - Open Access
Average broadband speed provided (Last Mile)	0	N/A

2. Please provide each facility name and type, the county where the facility is located, and census tract information for any facilities funded by your project during this annual reporting period. Report only facilities for which construction has been completed.

Facility Identifier / Name	Facility Type	County	Census Tracts
See Template - Tab 1	See Template - Tab 1	See Template - Tab 1	See Template - Tab 1

Add Facility

Remove Facility

3. Please identify (1) the total number of interconnection, peering, and/or transit agreements entered into during this annual reporting period; (2) the total number of agreements of each type that you are currently negotiating; and (3) whether you have denied any request for interconnection and if so, why. If you have not entered into any agreements, please write "N/A."

Interconnection Agreements (600 words or less)

1) Entered int five (5) agreements: Pemtel (1); Lumos (3); Citizens (1)
 2) Negotiating two (2) interconnection agreements (TDS, Comcast)
 3) Have note denied any requests for interconnection

Peering and Transit Agreements (600 words or less)

N/A

CAPACITY, UTILIZATION, AND CAPABILITY INDICATORS						
4. Community Anchor Institutions: In the chart below, please provide information on the types of community anchor institutions capable of receiving service (i.e., anchor institutions connected to your network plus those passed by your network) as a result of BTOP funds.						
Type of Community Anchor Institution	Total Number Within Service Area	Type of Community Anchor Institution	Total Number Within Service Area			
Schools (K-12)	0	Public Housing	0			
Libraries	0	Other Institutions of Higher Education	2			
Medical and Healthcare Providers	0	Other Community Support Organizations	0			
Public Safety Entities	0	Other Government Facilities	0			
Community Colleges	0	Total Community Anchor Institutions	2			
5. Please indicate the average increase in broadband speed provided to the community anchor institution customers as a result of your project, including a description of how this increase was calculated (600 words or less).						
Broadband speed was not increased.						
6. What retail services are being provided by this project? Please describe below. (600 words or less). As an attachment to this report, please provide pricing plans (in \$ per month) associated with each retail service. Retail services description:						
MBC provides optical transport services, using SONET/TDM, Wavelength, and Ethernet Connections. Ethernet circuits are provisioned as Ethernet over SONET, and each circuit has dedicated STS's for transport delivery. Standard contract terms are 24 months. MBC provides secured, carrier-class collocation space (in 1/4 rack increments are 12 rack units) for members. Due to grant funds being used in the construction of the MBC backbone network, Dark fiber IRUs are no longer offered. Fiber lease arrangements are considered on a case by case basis. See attachment for pricing sheet.						
7a. What network management policies (e.g., bandwidth limitations, traffic prioritization) are in place for the services provided by your project? 7b. Have you ever limited or blocked consumers from accessing any lawful content, service, service provider, or application, or prevented any consumers from attaching any legal device to the network? If so, please explain why (300 words or less)?						
We provide an open-access network available to all customers. We do not limit or block access of lawful services or applications of our customers.						
8. If applicable, please provide the total number and the percentage of subscribers who have dropped the broadband service provided through this project (total number of households and/or businesses and the "churn rate") and the subscribers' reasons for discontinuing their service (600 words or less).						
None						
9. Please provide the following information regarding the number of fiber strand-miles:						
Total Number of Strand-miles	Total Number of Active Fiber Strand-miles Used by Recipient	Total Number of Leased Fiber Strand-miles	Total Number of Dark Fiber Strand-miles	Total Number of Strand-miles Being Built		
				Active	Leased	Dark
15,004	585	29	14,390	0	0	0
10. If you wholesale dark fiber, please list your wholesale customers and the number of fiber miles you currently are leasing to those customers:						
Carillion - 28 Bonsack - 464						
11. Please provide the following information regarding the facility collocation capacity:						
Total Facility (total square feet for all facilities)	Number of Square Feet Used by Recipient	Number of Square Feet Leased	Number of Square Feet Available			

720	360	30	330
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12. If you do not own collocation space, please describe how and where other network providers and/or customers interconnect with your network (600 words or less).

One (1) co-location point is with Pemtel, located in Newport, VA. Our lease space is 36 square feet.

13. To the extent that you have made any subcontracts or sub grants, please provide the number of subcontracts or sub grants that have been made to socially and economically disadvantaged small business (SDB) concerns as defined by section 8(a) of the Small Business Act, 15 U.S.C. 647, as modified by NTIA's adoption of an alternative small business size standard for use in BTOP. Please also provide the names of these SDB entities (150 words or less).

N/A

14. Please describe any best practices/lessons learned that can be shared with other similar BTOP projects (900 words or less).

1. Start the environment assessment process as early as possible for long, linear projects.
2. Do the SHPO assess for both aerial and buried construction methods.
3. Perform design work in advance to aid in preparation of Environment Assessment and construction bidding.

15. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide an updated list of Community Anchor Institutions (CAIs) that you have connected and plan to connect to your network.

16. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide a list of community pairs that are receiving new or improved broadband service as a result of BTOP grant funds.

17. Please provide up-to-date network route maps in a single file, in a Google Earth compatible format (e.g., KMZ file).