## ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

**General Information**

| 1. Federal Agency and Organizational Element to Which Report is Submitted | 2. Award Identification Number | 3. DUNS Number |
|---|---|---|
| Department of Commerce, National Telecommunications and Information Administration | NT10BIX5570066 | 066723990 |

**4. Recipient Organization**

Bristol Virginia Utilities Board 15022 Lee Hwy
, Bristol, VA 24202-4256

| 5. Current Reporting Period End Date (MM/DD/YYYY) | 6. Is this the last Annual Report of the Award Period? |
|---|---|
| 12-31-2012 | ◯ Yes   ⦿ 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 | 7c. Telephone (area code, number and extension) |
|---|---|
| Scott Moehnke | X |
| | **7d. Email Address**<br>scott.moehnke@tsmllc.net |

| 7b. Signature of Certifying Official | 7e. Date Report Submitted (MM/DD/YYYY): |
|---|---|
| Submitted Electronically | 03-05-2013 |

## 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)** | 74,024 | Cost a factor of higher than expected hard rock found during underground burial.  To mitigate, some of the planned underground fiber was changed to aerial.  No impact to Environmental Assessment since assessment  discussed both options and study was based on most intrusive impact (i.e. buried fiber).  Fiber being built on VDOT rights-of-way. |
| **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)** | 10 Gb | Consistent with plan. |
| **Maximum broadband speed advertised (Last Mile)** | 0 | N/A |
| **Average broadband speed provided (Middle Mile)** | 2 Gb | Consistent with plan. |
| **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 |
|---|---|---|---|
| Bland PoP | PoP (Point-of-Presence) | Bland, VA | 990100 |
| Broadford Pop (formerly called Rich Valley) | PoP (Point-of-Presence) | Smyth, VA | 990100 |
| Damascus PoP | PoP (Point-of-Presence) | Washington, VA | 010900 |
| Valley PoP (formerly called Hiltons) | PoP (Point-of-Presence) | Washington, VA | 010200 |
| Wytheville PoP | PoP (Point-of-Presence) | Wythe, VA | 990100 |

| 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)**

We do not have any interconnection agreements at this time. No last mile providers have contacted BVU requesting interconnection to-date.  However, BVU has provided last mile interconnection to Hiltons, VA, themselves.  BVU plans to connect some other cities on the completed routes through other funding sources.

**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) | 33 | Public Housing | 2 |
| Libraries | 4 | Other Institutions of Higher Education | 3 |
| Medical and Healthcare Providers | 16 | Other Community Support Organizations | 9 |
| Public Safety Entities | 32 | Other Government Facilities | 18 |
| Community Colleges | 8 | Total Community Anchor Institutions | 125 |

**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).**

N/A.  Broadband speeds have not increased since project is middle mile and we are not providing direct connection to any CAI's as part of the project, unless  approved by NTIA with any surplus funds.

**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:**

N/A.  Only providing dark fiber services as part of middle mile project.

**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 do not have a formal policy since this a middle-mile project and we structure services based on lease needs, however, we do prioritize commercial traffic over residential, and we prioritize voice traffic (VoIP) over other types.

**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).**
N/A

**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 |
| 68,332 | 1,842 | 0 | 0 | 66,302 | 0 | 188 |

**10. If you wholesale dark fiber, please list your wholesale customers and the number of fiber miles you currently are leasing to those customers:**
Virginia Department of Transportation (VDOT):  188 miles

**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 |
|---|---|---|---|
| 972 | 972 | 0 | 0 |

**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).**

It was expected that colocation space would be available. However, actual PoP structures purchased, due to cost, are compact and will not allow BVU to support full colocation, except for perhaps, some rack space.  Other network providers would connect by running their fiber from their PoP into the BVU PoP for connection to our fiber panel/equipment.

**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).**

Best advice we can give is to contact the agencies (especially US Forest Service and the US Fish and Wildlife Service) early, keep them in the loop, and communicate with them frequently.  Aggressively push for responses, else in our experience, responses will be very slow or not received at all.  Also, engage a qualified environmental assessment expert with a comprehensive background in all aspects associated with environmental studies.  As we have learned in dealing with the environmental assessment process, the examples of previous reports referenced by NTIA as guidelines for a complete assessment did not address several environmental issues that were noted as deficiencies in the EA we submitted.  This has caused us to scramble to get the needed information very late in the process when we had up-front time available, before EA submission, to get the information marked as deficient.  We would hope that a qualified EA consultant would recognize missing areas even though not specifically listed in examples. Lastly, spend time researching how to correctly fill out the necessary reports.  The instructions are somewhat vague.  Attend webinars on how to interpret the instructions.

**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).**