OMB CONTROL NUMBER: 0660-0037
EXPIRATION DATE: 12/31/2013

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	NT10BIX5570157	830149840

4. Recipient Organization

Adams County Communications Center, Inc. 7321 Birch Street, Commerce City, CO 80022-1446

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 Newman	X
	7d. Email Address
	snewman@adcom911.org
7b. Signature of Certifying Official	**7e. Date Report Submitted (MM/DD/YYYY):**
Submitted Electronically	03-11-2013

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)	45,239	This number varies from the previous APR and Baseline Plan because it was previously believed our project did not count as a Middle Mile provider. Our fiber project connects directly between Community Anchor Institutions, but does not interconnect to fiber provided by 3rd party re-sellers. Therefore, we considered the fiber as "home run" and was unreported. Upon further clarification from the Grants Office, we are now counting this as middle mile connectivity. This number is calculated based on true costs incurred from the installation of the fiber. This is higher than the baseline estimate, because that was an estimate only - it was generated using the install cost of one run of fiber through one specific area. We had no empirical data to use for the various terrains, terrain etc. that would be required when formulating the original project plan. We also had to revise our originally planned route to accommodate changes to the project, and the distance of the new routes did not match original estimates.
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)	100 Mbps	Our primary aggregation points provide a speed of 10 Gbps, and the intermediary aggregation points provide a speed of 1 Gbps. However, these links provide backhaul to multiple CAI connection points. Therefore, we only offer 100 Mbps connection to each CAI, to prevent oversubscription on the backhaul network. We can provide service to 10 CAIs on any single intermediary link without encountering network congestion.
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	100 Mbps	Our primary aggregation points provide a speed of 10 Gbps, and the intermediary aggregation points provide a speed of 1 Gbps. However, these links provide backhaul to multiple CAI connection points. Therefore, we only offer 100 Mbps connection to each CAI, to prevent oversubscription on the backhaul network. We can provide service to 10 CAIs on any single intermediary link without encountering network congestion.
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
Adams County Communication Center	Public Safety Entity	Adams	Unknown
Southwest Adams County Fire	Public Safety Entity	Adams	Unknown
City of Brighton Administration Building	Other Governmental Entity	Adams	Unknown

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)

N/A

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)	1	**Public Housing**	0
Libraries	0	**Other Institutions of Higher Education**	0
Medical and Healthcare Providers	0	**Other Community Support Organizations**	0
Public Safety Entities	9	**Other Government Facilities**	6
Community Colleges	0	**Total Community Anchor Institutions**	16

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).

For one CAI, this was the first connectivity they had to the network - 100% increase. Several CAIs were upgraded from a T1 line (1.5 Mbps) to the fiber network (100 Mbps) - 66.6% increase. Another CAI was upgraded from a Microwave connection (50 Mbps) to the fiber network (100 Mpbs) - 50% increase.
One additional CAI was added to our list - Southwest Adams County Fire. This was not in our original project plan because it was originally intended as an LTE site alone. We have since formed an agreement with the agency to provide network access through the installed backhaul to our facility and other CAI locations. This CAI will be added to the project plan when the project plan revision is submitted.

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

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)?

Our primary aggregation points provide a speed of 10 Gbps, and the intermediary aggregation points provide a speed of 1 Gbps. However, these links provide backhaul to multiple CAI connection points. Therefore, we only offer 100 Mbps connection to each CAI, to prevent oversubscription on the backhaul network. We can provide service to 10 CAIs on any single intermediary link without encountering network congestion. This limitation is imposed at the network device connecting to the CAI. Each CAI uses the connection to access servers and data hosted at the ADCOM911 facility, or share data directly between each other. Since this is a closed network that does not link to the internet or other 3rd party network, no other blocking mechanism has been established.

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
871	57	0	646	56	0	112

10. If you wholesale dark fiber, please list your wholesale customers and the number of fiber miles you currently are leasing to those customers:

N/A

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
1,570	1,364	0	206

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).

The majority of interconnection and peering points are facilities owned and maintained by Community Anchor Institutions. Those entities allow us to use collocation space in return for us providing them service on the network. We typically connect to each CAI inside their existing data center. Therefore they own their own space, and we do not pay any lease for use of that space. Our project does not include connection to other 3rd party or internet based networks.

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).

Accurate documentation of each segment of fiber that exists between two interconnection points is critical. Most network diagrams simply list the connectivity between Point A and Point B, without listing any patch panels or interconnections between them. To help facilitate more accurate reporting, and for internal tracking purposes, projects should list the number of strands and distance of those strands between each interconnection point, whether equipment terminates at that location or not.

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).