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 | 2. Award Identification Number | 3. DUNS Number |
|---|---|---|
| Department of Commerce, National Telecommunications and Information Administration | NT10BIX5570098 | 831438424 |

**4. Recipient Organization**

California Broadband Cooperative, Inc. 1101 Nimitz Ave, Vallejo, CA 94592-1014

| 5. Current Reporting Period End Date (MM/DD/YYYY) | 6. Is this the last Annual Report of the Award Period? |
|---|---|
| 12-31-2013 | ◯ 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) |
|---|---|
| Robert Volker | X |
| | **7d. Email Address** |
| | Rvolker@digital395.com |
| **7b. Signature of Certifying Official** | **7e. Date Report Submitted (MM/DD/YYYY):** |
| Submitted Electronically | 02-19-2014 |

## 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)** | 181,498.07 | The forecast of $139,191.74 was predicated on a an overrun in budget due to higher environmental permitting costs and method of construction (i.e, change in CPUC Pole calculation formulas) There was approximately $25M in environmental costs. |
| **Average cost per household passed (Last Mile)** | 0 | NA |
| **Average cost per subscriber (Last Mile)** | 0 | NA |
| **Maximum broadband speed advertised (Middle Mile)** | 10Gbps | Increase to 10Gbps from 2.5Gbps, due to unexpected demand and the fact that equipment hardware is cheaper to provision this level than to break services down to the 2.5Gbps. |
| **Maximum broadband speed advertised (Last Mile)** | 0 | NA |
| **Average broadband speed provided (Middle Mile)** | 500Mbps | Increase from 10Mbps, due to the connection of only 6 customers through the end of 2013. These initial customers are significantly heavier users of bandwidth. As the remaining customers are hooked up we expect the average bandwidth speed to decrease toward the average bandwidth projected |
| **Average broadband speed provided (Last Mile)** | 0 | NA |

**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 ATTACHED | SEE ATTACHED | SEE ATTACHED | SEE ATTACHED |

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) Agreements Entered Into
Plumas Sierra - Signed internet and collocation agreement
Lone Pine TV - Internet Access
SchatNet - Internet Access and Transport
2) Agreements Being Negotiated - 3
3) Have we denied a request for interconnection and if so, why? No

**Peering and Transit Agreements (600 words or less)**

1) Agreements Entered Into - 0
2) Agreements Being Negotiated - 0
3) Have we denied a request for interconnection and if so, why? No

## 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)** | 52 | **Public Housing** | 0 |
| **Libraries** | 12 | **Other Institutions of Higher Education** | 4 |
| **Medical and Healthcare Providers** | 13 | **Other Community Support Organizations** | 18 |
| **Public Safety Entities** | 41 | **Other Government Facilities** | 131 |
| **Community Colleges** | 3 | **Total Community Anchor Institutions** | 274 |

**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).**

48.5 MB increase. This is calculated based on the majority of customers were receiving T1 service and will now have 50MB delivered via a gigabit ethernet circuit allowing growth of up to 1000MB.

**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:**

NA - This is a wholesale network

**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)?**

California Broadband Cooperative, Inc. (CBC) will solely manage the proposed funded network in accordance with the FCC's Internet Policy Statement (FCC 05-151, adopted August 5, 2005) and in compliance with any future Internet policy changes by the FCC. Currently CBC does not discriminate or favor any lawful Internet applications, content, or services where lawfully used, and these same practices will be continued for the proposed funded network. We promote our customer's ability to freely access and disseminate lawful content in a manner that respects others' use of the network and that complies with the law.

While CBC does not engage in blocking customer access to illegal or legal Internet content, CBC supports industry practices for safeguarding children, intellectual property rights and our customers' privacy and security. CBC follows standard best efforts for Internet delivery with respect to allocation of capacity without differentiation among applications, providers, or sources. CBC uses generally accepted technical measures to provide acceptable service levels to all customers, such as application-neutral bandwidth allocation, as well as measures to address service attacks, illegal content and other harmful activities to protect network integrity and reliability.

**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 - Network presently under construction and only few community anchor institutions were connected in December

**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 |
| 245,364 | 2,248 | 0 | 243,116 | 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:**

ZAYO Group, LLC
ZAYO Group has purchased 553 miles of wholesale middle mile dark fiber between Carson and Barstow.

**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 |
|---|---|---|---|
| 1,664 | 712 | 0 | 952 |

**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).**

NA - We own collocation space

**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).**

NA

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

1) External stakeholder management and on-going interactions with Agencies is important factor. Local agencies, and elected officials expect a high degree of information. Use web sites and any available media opportunities.
2) Time frames and complexity of environmental permits and approvals are exponentially related to the number of agencies involved. In many instances, at project start, many agencies are unfamiliar with longitudinal projects, especially fiber. Many of the paradigms they use in their work do not apply.
3) Flexible start dates should be included in construction contracts, as seasonality can have a great impact of future cost changes.
4) Strength in contract administration is a Key Success Factor. This includes a high level of field inspections, regulatory compliance, and thorough documentation. The use of databases and cloud computing is especially effective.
5) Strong focus on agile budget management and cost control.
6) In additional to fundamental network construction capability, fiber optic projects have complex data communication elements that must be properly designed, implemented and managed.

**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).**