

RECIPIENT NAME: District of Columbia Government

AWARD NUMBER: NT10BIX5570081

DATE: 03/01/2012

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

## ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

### General Information

<b>1. Federal Agency and Organizational Element to Which Report is Submitted</b> Department of Commerce, National Telecommunications and Information Administration	<b>2. Award Identification Number</b> NT10BIX5570081	<b>3. DUNS Number</b> 022555952
<b>4. Recipient Organization</b>  District of Columbia Government 441 4th St., NW, Suite 930S, Washington, DC 20001-2714		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  12-31-2011	<b>6. Is this the last Annual Report of the Award Period?</b>  <input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>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.</b>		
<b>7a. Typed or Printed Name and Title of Certifying Official</b>  Joseph Carella  BTOP Program Consultant	<b>7c. Telephone (area code, number and extension)</b>  2027153743	<b>7d. Email Address</b>  joe.carella@dc.gov
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  03-01-2012	

**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)	51166	Through Dec 31, 2011, DC-CAN experience suggests a cost per fiber mile of approximately \$51,166. Total costs for 45 miles of fiber are \$2.3 million, with a resulting cost per fiber mile = \$51,166.  OCTO DC-Net has been able to procure equipment, materials and services at favorable rates when compared to the original budget.
Average cost per household passed (Last Mile)	0	DC-CAN is only a middle-mile project.
Average cost per subscriber (Last Mile)	0	DC-CAN is only a middle-mile project.
Maximum broadband speed advertised (Middle Mile)	100000	Maximum advertised speed is 100 Gbps (or 100,000 Mbps). This exceeds the maximum 40 Gbps speed offered in the baseline plan, as technology improvements by procurement date provided more powerful equipment, permitting DC-CAN to build this more powerful infrastructure.
Maximum broadband speed advertised (Last Mile)	0	DC-CAN is only a middle-mile project.
Average broadband speed provided (Middle Mile)	10	Average broadband speed provided is 10 Mbps. Consistent with baseline.
Average broadband speed provided (Last Mile)	0	DC-CAN is only a middle-mile project.

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 Annual PPR CCI Addendum	Addendum	Addendum	Addendum

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)	88	Public Housing	35
Libraries	23	Other Institutions of Higher Education	0
Medical and Healthcare Providers	61	Other Community Support Organizations	22
Public Safety Entities	58	Other Government Facilities	0
Community Colleges	4	Total Community Anchor Institutions	291

**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).**

Typical customers have seen their broadband speed improve to 10 Mbps, as a consequence of moving to DC-CAN service offerings. Most customers have upgraded to DC-CAN from T-1 service, or 1.54 Mbps. In addition to more than six-fold increase in broadband speeds, their monthly costs have declined.

**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:**

As of December 31, 2011, no retail services have been offered.

**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)?**

DC-CAN limits bandwidth based on the bandwidth provisioned and requested by the customer.

No, DC-Net (or DC-CAN) have not limited or blocked consumers from accessing lawful content.

**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).**

No subscribers have dropped broadband service.

**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
33,206	7,614	0	0	25,592	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:**

For DC-CAN, no dark fiber has been, or will be, offered to wholesale subscribers.

**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
1,200	1,200	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).**

District of Columbia's Office of the Chief Technology Officer (OCTO) currently has a telecommunications, fiber and broadband operation providing services to District of Columbia Government Agencies, operating under the "DC-Net" program name.

DC-Net plans fourteen (14) collocation sites dedicated to DC-CAN use, estimated at approximately 400 square feet per site. Of these fourteen (14) sites, DC-Net currently operates and supports electronics at eight (8) of these sites; the other sites are either under construction or are under lease negotiation currently.

Once fully operational, ten (10) of the fourteen (14) DC-CAN sites will be owned by DC Government; the remaining four (4) will be leased.

**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).**

DC-CAN has made no sub-grants or sub-contracts to any economically-disadvantaged small business concerns, as defined by Section 8(a) of the Small Business Act. DC-CAN does not intend to make any in the future.

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

As standard procedure, DC-Net reviews equipment specifications regularly, and ensures that it exploits more current technologies, as they are commercially available, and proved viable through testing.

DC-Net finds technology continues to evolve at a rapid pace, providing greater capabilities for the project, once project is deployed.

DC-Net recommends periodically review its bill of materials and configuration, at community anchors and at mega-POP sites.

**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).**