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	NT10BIX5570024	009095365

4. Recipient Organization

University of Utah, The 201 Presidents Cir., Rm 408, Salt Lake City, UT 84112-9023

5. Current Reporting Period End Date (MM/DD/YYYY)	6. Is this the last Annual Report of the Award Period?
12-31-2011	◯ 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)
Lisa Kuhn	8015853224
Dir. of Finance UIT	7d. Email Address Lkuhn@media.utah.edu

7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):
Submitted Electronically	03-02-2012

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)	58,224	There is a significant increase and variance from the Baseline Report because the calculation in that report included new network miles leased, whereas this Annual Performance Report includes only newly constructed miles. Additionally, the U of U/UEN has not been invoiced for thirty (30) of the ninety five (95) completed builds, so the budgeted amount was used for these sites when calculating this average.
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)	1000Mbps	This is the maximum circuit connection speed that is being offered by sub recipients.
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	712Mbps	The U of U/UEN BTOP project is connecting CAIs with circuit speeds ranging from 2Mbps (one CAI) to a majority of CAIs, connecting at 100Mbps and 1000Mbps. These circuits speeds are committed rates with dedicated bandwidth.
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 Excel Addendum	See Excel Addendum	See Excel Addendum	See Excel 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)

The U of U/UEN has entered into four (4) interconnection agreements during this annual reporting period. The U of U/UEN in not currently negotiating any additional agreements nor have we 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)	75	**Public Housing**	0
Libraries	14	**Other Institutions of Higher Education**	0
Medical and Healthcare Providers	16	**Other Community Support Organizations**	8
Public Safety Entities	105	**Other Government Facilities**	0
Community Colleges	0	**Total Community Anchor Institutions**	218

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).

The average increase in broadband speed for CAI customers as a result of the BTOP Utah Anchors project is seven hundred ten (710) Mbps or an average of four hundred sixty (460) percent.   All of the CAIs that are part of the U of U/UEN BTOP Utah Anchors project were previously connected via T1s at a rate of 1.544 Mbps. The average connected speed for the ninety five (95) CAIs that are now completed as a part of this project, is seven hundred twelve (712) Mbps. To arrive at an average increase in broadband speed, we subtracted the previous average broadband speed (A) from the BTOP project average broadband speed (B) to arrive at the average increase in speed (C) and divided this by the previous average broadband speed to arrive at a percentage of increase. See the following: 712 -1.544 = 710.456 / 1.544 = 460%.

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:

The U of U/UEN is not a retail service provider. Our BTOP project will deliver broadband connections to specific CAIs working with incumbent Telecommunications Partners who will provision critical fiber infrastructure to the CAI end sites. These Telecommunications Partners intend to make use of this infrastructure by offering telecommunication services to residential and business customers on a retail or commercial basis in these service areas.

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)?
UEN uses industry standard network management processes with specific emphasis on maintaining a stable backbone. UEN does not currently limit or prioritize specific traffic on the network. All traffic flows freely and is available for any legitimate purpose defined by policy. No traffic filtering occurs on the network with the exception for sites serving minors where content filters limit access to adult-content systems and services.

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**
2,175	734	0	0	1,441	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:
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
600	50	0	550

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 U of U/UEN network Points of Presence (PoP) are located in institutions of public and higher education around the State of Utah. These sites serve as regional aggregation points for customers on the network and connect directly to the U of U/UEN backbone. Community Anchor Institutions (CAIs) will have a Telecommunications Partner customer hand off that serves as a interconnection point to the U of U/UEN network.

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).
None at this time.

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

The U of U/UEN would recommend that all recipients carefully examine and build into their project time line and budget the necessary resources needed to complete the Environmental Assessment. This process should start immediately following grant award notification. Not fully understanding the resources required to complete this milestone, drastically changed the overall U of U/UEN project completion schedule.
Secondly, early discussion and clarification of all Special Award Conditions with sub-recipients during the application process is advised. A comprehensive understanding of their responsibilities should be started as early on in the grant process as is feasible. If possible, agreements delineating all responsibilities should be signed as early as possible in the post grant award period.
Lastly, establishing a relationship with your grant Federal Program Officer (FPO) is vital to navigating any obstacles and keeping your project moving forward. Establishing a regular meeting schedule with your FPO to cover issues and provide progress updates will prove to be invaluable.

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).