DATE: 08/09/2013

OMB CONTROL NUMBER: 0660-0037 EXPIRATION DATE: 6/30/2015

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS							
General Information							
Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identific	ation Number		3. DUNS Number			
Department of Commerce, National Telecommunications and Information Administration	NT10BIX55700 ⁻	11		018946590			
4. Recipient Organization							
MCNC 3021 Cornwallis Road, Research Triangle	e Park, NC 27709	-2889					
5. Current Reporting Period End Date (MM/DD/YYY	Υ)	6. Is this the last	t Repor	t of the Award Period?			
06-30-2013							
7. Certification: I certify to the best of my knowledg purposes set forth in the award documents.	e and belief that th	is report is correc	ct and c	complete for performance of activities for the			
7a. Typed or Printed Name and Title of Certifying O	fficial	7c. Te	7c. Telephone (area code, number and extension)				
Patricia Moody		91924	9192481820				
		7d. E	7d. Email Address				
Chief Financial Officer		pmod	pmoody@mcnc.org				
7b. Signature of Certifying Official		7e. D	ate Rep	port Submitted (MM/DD/YYYY):			
Submitted Electronically		08-0	08-09-2013				

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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).

MCNC has previously reported that the original project, as well as the project modifications approved in spring of 2012, are complete. The associated miles in the project are 444 miles of newly constructed fiber, 314 miles of new network miles leased, 197 miles of upgraded fiber, and 1866 CAI's with improved or new connectivity. During the quarter MCNC finalized the purchase of the 100G upgrades for the R1 universities that was approved in December of 2012, and all of this equipment was received during the quarter but not yet deployed. Final engineering efforts were completed for the three additional hut sites that were approved as additions to the project in December of 2012. At the end of the quarter these facilities had been ordered, engineering completed, but project work at the site had not yet commenced. All other aspects of the project as originally approved were complete.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	99	We are 100% complete from a deployment perspective, as the project was initially outlined and funded. The variance here is due to the pending completion of the additional components of the project.
2b.	Environmental Assessment	100	This task is 100% complete.
2c.	Network Design	100	This task is 100% complete.
2d.	Rights of Way	100	This task is 100% complete.
2e.	Construction Permits and Other Approvals	100	This task is 100% complete.
2f.	Site Preparation	100	This task is 100% complete.
2g.	Equipment Procurement	100	This task is 100% complete.
2h.	Network Build (all components - owned, leased, IRU, etc)	99	As it relates to dollars spent on the project, we are at 99% complete. The total number of miles built in the project is 444 and the total number of miles acquired was 314, for an overall total of 758 miles.
2i.	Equipment Deployment	95	All elements of the project as initially funded and then approved during the course of the grant period have been completed. We show less than 100% here at this time to reflect the additional equipment approved at the end of the quarter for procurement and deployment during the extension period. Procurement has been completed, but due to timing of delivery relative to the end of the quarter, deployment has not yet occurred.
2j.	Network Testing	100	This task is 100% complete.
2k.	Other (please specify):	0	N/A

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

No significant challenges in continuing on the execution of the project were experienced.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

		Narrative (describe your reasons for any variance from the baseline
Indicator	Total	plan or any other relevant information)

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Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	444	The 444 miles represented here matches the original approved build and additional miles added during the project. Initial baseline established would have projected 467.1 miles for this quarter, but the forecasted amount included miles that NTIA allowed to be acquired under IRU (indefeasible right to use) once the project began and means this number will always track below baseline.
New network miles leased	314	Our projections on network miles leased have been inaccurate due to misinterpretation of network miles leased versus network miles upgraded in our baseline projections. The total of 314 miles reported here is made up of 197 from ERC and FRC routes communicated in the original application, 61 from the Morris Broadband acquisition, and 33 from the Balsam and Plateau IRU's approved during the project. The additional 23 miles as approved in the savings request have now been added for a total of 314 miles. This number will always be less than the final projection of 420 due to misunderstanding of accounting of these miles at baseline completion.
Existing network miles upgraded	197	These miles represent fiber that MCNC already had the rights to via IRU and presented in the project and BTOP then funded the equipment. Baseline always showed 0 throughout the project and were moved from the "network miles leased" area here in a previous quarter which is creating the variance to baseline.
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	444	The 444 miles represented here matches the original approved build and additional miles approved during the project.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	1,125	This final number is higher to baseline due to the additional approved builds during the project and our estimate for number of required handholds designed during engineering being low initially.

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	8
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	4
Average term of signed agreements (in quarters)	70

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: Signed agreements completed to date are as follows:

- 1. ERC (dark fiber) through MCNC
- 2. FRC (dark fiber) through MCNC
- 3. FRC (lit service) through MCNC
- 4. Earthlink (dark fiber) through MCNC
- 5. RST Communications (dark fiber) through MCNC
- 6. Verizon Wireless (lit service) through FRC (subrecipient)
- 7. Morris Broadband (dark fiber) through FRC (subrecipient)
- 8. Pangea Internet (dark fiber) through FRC (subrecipient)

Conversations with Dukenet continue for round 1 routes but have had to go to their board of directors for approval. Conversations with

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Balsamwest regarding fibers along a portion of the route are ongoing, as well as additional purchases from RST and Earthlink.

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

MCNC is not providing wholesale services. The Agreements and providers noted above will be providing wholesales services as these agreements are formalized and these providers begin deploying equipment and services in those regions.

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this third party operates (600 words or less).

FRC has been contracted to provide fiber maintenance (locates and break/fix) on the fiber. Now that construction is complete, they have assumed this responsibility. They will provide route maintenance on 100% of the newly constructed fiber. On fiber assets that they retain in the new fiber footprint, they will be in a position to provide wholesale services to other wholesale carriers, last mile carriers, and private enterprise. MCNC will be focused on the education, government, and public health sectors.

FRC Contact Info:

Mike Baldwin Senior Counsel, Business and Legal Affairs 1500 Hampton Street, Columbia SC 29201 (803)-726-4053

MCNC Contact Info: Tommy Jacobson COO 3021 E. Cornwallis Road

Research Triangle Park, NC 27709

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Narrative (describe your reasons for any variance from the Subscriber Type Total **Access Type** baseline plan or any other relevant information) **Broadband** FRC is providing lit service under a master contract with Verizon Providers with signed agreements Wholesalers or Last 1 Wireless to 10 wireless towers in the western portion of the receiving new access Mile Providers In advance of FRC lighting portions of the route on their own for the fibers they acquired in the route, they have contracted with Providers with signed agreements 1 receiving improved access MCNC for the next year to provide a 10Gbps lambda between New Bern and Wilmington on the MCNC network. Dark fiber agreements communicated in previous reports for the arrangements with FRC (as part of the subrecipient agreement), ERC, Pangea Internet, Morris Broadband, and Earthlink. As noted above, an additional agreement was completed with RST Providers with signed agreements 6 receiving access to dark fiber Communications was completed during the quarter. Discussions continue with Dukenet, Balsamwest, and Earthlink (additional purchase) for portions of the constructed network. Earthlink and RST are the first two providers that we believe will be providing wholesale and residential services in the areas of their purchases. However, we do not have direct visibility to what those offerings are or how they have provisioned the dark fibers they have received. Please identify the speed tiers that are available and the number of 2 Within the MCNC/FRC fibers, the service MCNC is providing is subscribers for each operating at 10G and the services that FRC is providing is operating at 100M. 100M: 10 subscribers 10G: 1 subscriber

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Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)			
Community Anchor Institutions (including Government institutions)	Total subscribers served	1,866	We are serving 1866 CAl's. This is 4 less than was communicated in prior quarters. MCNC was advised by NTIA to remove 17 CAls that were previously reported as improved because now they are counted on the MCNC Round 2 project as receiving new fiber builds. Additionally, we added 13 sites that were approved during this past year during project reroutes. 19 sites were approved as part of that process, but 6 were already included in the report as receiving improved access due to the initial project as funded. We do not include them again now to keep from double counting. Therefore, 1847 will be listed as receiving improved access and 19 will be listed as receiving new access, for a total of 1866. As our understanding of the reporting requirements refined during the project, we now know that projections in our initial application and baseline are inaccurate due to misinterpretation of the guidance. Initial projections were based on community anchor institutions located in the counties in which our fiber route passes through, but not necessarily on-net with the North Carolina Research and Education Network (NCREN) today. Based on the clarifications from a previous quarter, what we report here are CAl's that were already connected to the NCREN backbone in some capacity that have received improved access due to the deployment of fiber and higher grades of service (i.e. 10Gbps internet service) out of NCREN maintained facilities.			
	Subscribers receiving new access	19	These 19 sites reported represent locations approved for new builds during the project.			
	Subscribers receiving improved access	1,847	We are now reporting 1847 CAI's. This is less than what was communicated in prior quarters. MCNC was advised by NTIA to remove 17 CAIs that were previously reported as improved because now they are counted on the MCNC Round 2 project as receiving new fiber builds. Additionally, we added 13 sites that were approved during this past year during project reroutes. 19 sites were approved as part of that process, but 6 were already included in the report as receiving improved access due to the initial project as funded. We do not include them again now to keep from double counting. Therefore, 1847 will be listed as receiving improved access and 19 will be listed as receiving new access, for a total of 1866. As our understanding of the reporting requirements refined during the project, we now know that projections in our initial application and baseline are inaccurate due to misinterpretation of the guidance. Initial projections were based on community anchor institutions located in the counties in which our fiber route passes through, but not necessarily on-net with the North Carolina Research and Education Network (NCREN) today. Based on the clarifications from a previous quarter, what we report here are CAI's that were already connected to the NCREN backbone in some capacity that have received improved access due to the deployment of fiber and higher grades of service (i.e. 10Gbps internet service) out of NCREN maintained facilities.			
	Please identify the speed tiers that are available and the number or	0	Most of our CAI's have improved access due to being on the improved middle mile infrastructure. That infrastructure now has capability for 100G. On the system deployed, direct point to point services as shown below are possible: 100M, 250M, 500M, increments of 1G, 10G, 100G.			

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Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	subscribers for each		For CAI's that have had new fiber constructed to their locations they have capability with the equipment deployed for services up to 10Gbps depending on what service level they choose. As their capabilities grow beyond the equipment deployed, we could upgrade that equipment through operational funds and improve their connectivity up to 100G.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new acces	s 0	N/A
	Subscribers receiving improved a	access 0	N/A
	Please identify the speed tiers the available and the number of subscribers for each	at are	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new acces	s 0	N/A
	Subscribers receiving improved a	access 0	N/A
Please identify the speed tiers that are available and the number of subscribers for each		at are	N/A
We are able to provide portions of the central addition, due to fundin 8a. Have your network		sed circuits betwo Raleigh corridor EN core operates ver the last quarte	een all NCREN POP's enabled by the new infrastructure and to) of the NCREN network that existed prior to application. In s at 100Gbps.
connected to your netw	please provide a list by service are york as a result of BTOP funds. Figure is a result of the provided in the provided	gures should be re currently providi ons are using BT0	ty anchor institutions (including Government institutions) eported for the most recent reporting quarter only (NOT ng broadband service to the anchor institution. Finally, provide a DP-funded infrastructure (300 words or less). Narrative description of how anchor institutions are using BTOP- funded infrastructure
	basennej	institution? (Yes / No)	

Project Indicators (Next Quarter)

N/A

N/A

N/A

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).

N/A

We anticipate completing all activities associated with the extension request of December 2012. This includes the deployment of the three colocation facilities and the deployment of all 100G equipment to the R1's.

N/A

RECIPIENT NAME:MCNC

AWARD NUMBER: NT10BIX5570011

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2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	100	This task will be 100% complete by end of the 9/30/13 quarter.
2b.	Environmental Assessment	100	This task is 100% complete
2c.	Network Design	100	This task is 100% complete
2d.	Rights of Way	100	This task is 100% complete
2e.	Construction Permits and Other Approvals	100	This task is 100% complete
2f.	Site Preparation	100	This task is 100% complete
2g.	Equipment Procurement	100	This task is 100% complete
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	This task will be 100% complete by end of the 9/30/13 quarter.
2i.	Equipment Deployment	100	This task will be 100% complete by end of the 9/30/13 quarter.
2j.	Network Testing	100	This task is 100% complete
2k.	Other (please specify):	0	N/A

^{3.} Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

We do not anticipate any challenges based on the remaining work to be performed.

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$466,201	\$169,207	\$296,994	\$472,530	\$104,353	\$368,177	\$472,530	\$104,353	\$368,177
b. Land, structures, right-of-ways, appraisals, etc.	\$740,417	\$97,261	\$643,156	\$460,862	\$101,776	\$359,086	\$460,862	\$101,776	\$359,086
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$1,904,780	\$420,649	\$1,484,131	\$1,970,902	\$435,252	\$1,535,650	\$1,974,778	\$436,108	\$1,538,670
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$26,410,266	\$6,370,055	\$20,040,211	\$26,647,777	\$6,422,507	\$20,225,270	\$26,647,777	\$6,422,507	\$20,225,270
j. Equipment	\$8,990,427	\$3,229,401	\$5,761,026	\$8,956,144	\$3,221,829	\$5,734,315	\$8,956,144	\$3,221,829	\$5,734,315
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
I. SUBTOTAL (add a through k)	\$38,512,091	\$10,286,573	\$28,225,518	\$38,508,215	\$10,285,717	\$28,222,498	\$38,512,091	\$10,286,573	\$28,225,518
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of I and m)	\$38,512,091	\$10,286,573	\$28,225,518	\$38,508,215	\$10,285,717	\$28,222,498	\$38,512,091	\$10,286,573	\$28,225,518

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0 b. Program Income to Date: \$0