

RECIPIENT NAME:Nelson, County of

AWARD NUMBER: NT10BIX5570049

DATE: 02/21/2013

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570049	3. DUNS Number 052551322
4. Recipient Organization Nelson, County of 84 Court House Square, Lovingson, VA 22949-0000		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2012	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> 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 Stephen A Carter County Administrator	7c. Telephone (area code, number and extension) 4342637000	
	7d. Email Address scarter@nelsoncounty.org	
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 02-21-2013	

Project Indicators (This Quarter)

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

Construction of the fiber backbone network and customer fiber interconnections was completed this quarter and final splicing and testing commenced. Final inspection activities began and a punch list of activities for clean up or correction was developed following site inspection with the Virginia Department of Transportation. Very small fill in orders for miscellaneous outside plant materials were ordered and received. Construction of two monopole towers was completed at the Avon and Afton sites. Selection of a final tower site in Massie's Mill and local permitting was completed, as was the required environmental and historic resource review through the FCC. The optimum site selected required a project modification to reroute the microwave backhaul path, adding 10 new miles of microwave network to the project with the microwave to fiber interconnection occurring at the Avon tower instead of the Colleen tower as originally proposed. The request was fully vetted, a determination of no environmental impact was made and the modification approved. A request for proposals was issued for the tower and microwave equipment, vendors selected and contracts initiated to start procurement. All of the network electronics were installed in the network operating center, at the customer facilities and in cabinets at the tower sites. Testing and turn up of county anchor facilities was completed. A wholesale Internet provider, Lumos Networks, completed interconnection in the network operating center and an initial turn up of a 25 Mbps Internet circuit. The County completed all contractual activities with the chosen network operator, Blue Ridge InterNetworks. All grant management activities including quarterly reports and twice monthly progress calls with the federal project officer were completed timely.

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	93	Variance due to delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber construction and community anchor facility connections are complete but rework in some areas as requested by the Virginia Department of Transportation is in progress. The Avon and Afton towers were constructed and fiber interconnections installed to the tower compounds including one at the Colleen tower. The last remaining tower is scheduled for construction in the first quarter of 2013 that will complete the network build.
2b.	Environmental Assessment	100	No variance
2c.	Network Design	100	No variance
2d.	Rights of Way	100	No variance
2e.	Construction Permits and Other Approvals	100	No variance
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	99	Variance due to delayed construction start and difficulties in securing an optimum tower location in Massie's Mill. The microwave backhaul equipment remains to be ordered and will occur in the first quarter of 2013.
2h.	Network Build (all components - owned, leased, IRU, etc)	99	Variance due to delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber construction and community anchor facility connections are complete, and work to close out the Virginia Department of Transportation permit is in progress. The last remaining tower is scheduled for construction in the first quarter of 2013 that will complete the network build.
2i.	Equipment Deployment	99	Variance due to delayed construction start and difficulties in securing an optimum tower location in Massie's Mill. The microwave backhaul system remains to be deployed. Quotes have been received, a vendor selected, and the contract in development. The equipment will be deployed in the first quarter of 2013.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
	2j. Network Testing	99	Variance due to a delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber construction and community anchor connections are complete, and splicing and testing was completed in this quarter. Final splice testing will be conducted in the first quarter of 2013 following close out of the Virginia Department of Transportation permit.
	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).

Hurricane Sandy significantly impacted construction progress in Nelson County. The Avon and Afton tower foundation construction was delayed due to rain soaked compounds. Power installation to the tower compounds was delayed due to the local electric cooperative relocating resources to repair power infrastructure locally and in other areas on the east coast. The Virginia Department of Transportation requested restoration attention to conduit and vault placement in several areas that has pushed final completion of the fiber network construction into the first quarter of 2013. The County and its contractors continue to work diligently to complete all project activities and no known technical assistance from the BTOP program would be useful at this time.

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).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	31	Variance due to a delayed construction start, delay in securing an optimum tower site in the Massie's Mill area, and significant weather events that impacted project resources. The backbone and interconnection drop fiber construction is complete though clean up and splicing will continue into the next quarter. The microwave backhaul mileage remains to be installed and will be deployed in the first quarter of 2013 with the Massie's Mill tower construction.
New network miles leased	0	N/A
Existing network miles upgraded	0	N/A
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	31	No variance
Number of new wireless links	4	Variance due a delayed construction start, delay in securing an optimum tower site in the Massie's Mill area, and significant weather events that impacted project resources. Interconnection points have been completed between the Avon, Afton, Colleen and Lovingston towers and the backbone fiber network. Following construction of the Massie's Mill tower in the first quarter of 2013, a link will be established between that tower and the backbone fiber network at the Avon tower.
Number of new towers	3	Variance due a delayed construction start, delay in securing an optimum tower site in the Massie's Mill area, and significant weather events that impacted project resources. The Avon, and Afton towers in this project have been constructed. The Colleen tower was an existing tower erected before the grant award. The Massie's Mill tower site has been secured, a vendor selected, and construction scheduled to commence in the first quarter of 2013.

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Number of new and/or upgraded interconnection points	5	Variance due a delayed construction start, delay in securing an optimum tower site in the Massie's Mill area, and significant weather events that impacted project resources. Interconnection points have been established at the Avon, Afton, Colleen, and Lovington towers and at the network operating center at the county administration building. The Massie's Mill tower site has been secured, a vendor selected, and construction scheduled to commence in the first quarter of 2013 that will complete the project's interconnection points.

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	2
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	1
Average term of signed agreements (in quarters)	12

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: Lumos Networks and Blue Ridge InterNetworks

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:
Currently the County is receiving Internet service from Lumos Networks at the network operating center and redistributing to county anchor facilities over the new fiber network. The County does not provide wholesale Internet services but Lumos has brought a circuit into the network operating center for wholesale services to other providers. The County provides transport for private provider services on the middle network only.

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).
Blue Ridge InterNetworks is a contractor providing network operation services for the Nelson County middle mile fiber network. The contact is Baylor Fooks, (434) 531-4002 or baylor@briworks.com. The entire Nelson County fiber network is operated by this firm; management of the towers constructed in this project is not included in the network operation service. The County Information Systems Department will manage the towers and microwave connectivity. The Nelson County Information Systems Director is Susan Rorrer, 434-263-7122 or SRorrer@nelsoncounty.org.

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).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	1	Variance to due to delayed construction start and private provider scheduling issues. One provider agreement is complete but the provider is engaged in business planning and has not begun the collocation process. Anticipate new service delivery by that private provider to occur in the second or third quarter of 2013 at the earliest. One additional new provider continues to negotiate a contract for collocation, expected to be executed in the first quarter of 2013.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Providers with signed agreements receiving improved access	1	Variance due to delayed construction start. One provider completed collocation and testing and has begun Internet service delivery to the County as a first anchor customer. Marketing of fiber services to the provider's new and current customers is expected to begin in the first quarter of 2013.
	Providers with signed agreements receiving access to dark fiber	0	No variance to plan, but dark fiber is available if desired and is advertised on the network services rate schedule.
	Please identify the speed tiers that are available and the number of subscribers for each	0	The end user equipment has been installed at the community anchor institutions and the County facilities began receiving 10 Mbps Internet services at the end of the year. The County is not a service provider on the middle mile network but private providers can purchase transport at speeds desired up to 1 Gbps.
Community Anchor Institutions (including Government institutions)	Total subscribers served	12	Network connectivity to 12 of the network's community anchor institutions has been completed and are capable of receiving services. The County has begun providing service to 5 county facilities. 7 institutions are ready to be served by private providers. 1 additional institution will be connected in first quarter of 2013.
	Subscribers receiving new access	5	Network connectivity to 12 of the network's community anchor institutions has been completed and are capable of receiving services. The County has begun providing service to 5 county facilities. 7 institutions are ready to be served by private providers. 1 additional institution will be connected in first quarter of 2013.
	Subscribers receiving improved access	7	Network connectivity to 12 of the network's community anchor institutions has been completed and are capable of receiving services. The County has begun providing service to 5 county facilities. 7 remaining institutions are ready to be served by private providers. 1 additional institution will be connected in first quarter of 2013.
	Please identify the speed tiers that are available and the number of subscribers for each	0	The end user equipment has been installed at the community anchor institutions and the County facilities began receiving 10 Mbps Internet services at the end of the year. The County is not a service provider on the middle mile network but private providers can purchase transport at speeds desired up to 1 Gbps.
Residential / Households	Entities passed	299	The middle mile fiber passes approximately 299 homes located within 500 feet of the fiber and could be served by private provider connections to the network.
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	The fiber network is complete and ready for private provider access. The County is not a service provider on the network but private providers can purchase transport at speeds desired up to 1 Gbps.
Businesses	Entities passed	30	The middle mile fiber passes approximately 30 businesses located within 500 feet of the fiber and could be served by private provider connections to the network.
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	The fiber network is complete and ready for private provider access. The County is not a service provider on the network but private providers can purchase transport at speeds desired up to 1 Gbps.

7. Please describe any special offerings you may provide (600 words or less).

The Nelson County middle mile fiber network is complete and available for private provider use to provide high speed services.

Transport service is available at broadband speeds desired up to 1 Gbps.

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).
No change

9. Community Anchor Institutions:
Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Nelson County Administration	Lovingston	Government	No	Nelson County is purchasing 15 Mbps Internet service from Lumos Networks and redistributing across the County network to 5 facilities. This replaces the previous 1.5 Mbps circuit.
Nelson County Planning & Zoning	Lovingston	Government	No	This facility is receiving 15 Mbps Internet access across the County's network, replacing the previous 1.5 Mbps circuit.
The Nelson Center, Recreation Department	Lovingston	Government	No	The County Recreation department located in this multi tenant building is receiving 15 Mbps Internet access across the County's network, new service for this agency.
Nelson Library	Lovingston	Library	No	The Library facility is receiving 15 Mbps Internet access across the County's network. The Economic Development & Tourism Department shares the fiber connection to this facility, replacing the previous wireless service.
Nelson County Social Services	Lovingston	Government	No	The Social Services facility is receiving telephone service across the County's fiber network. This replaces previous analog phone lines. This facility is currently under contract with a private provider for 1.5 Mbps service and will seek Internet services from a private provider over the fiber at contract expiration in 2013.
Rockfish River Elementary School	Afton	School K-12	No	This facility is connected to the middle mile network and ready to be served by a private provider. The schools are under contract until the expiration of the currently eRate contract.
Nelson County Middle School	Lovingston	School K-12	No	This facility is connected to the middle mile network and ready to be served by a private provider. The schools are under contract until the expiration of the currently eRate contract.
Nelson County High School	Lovingston	School K-12	No	This facility is connected to the middle mile network and ready to be served by a private provider. The schools are under contract until the expiration of the currently eRate contract.
Tye River Elementary	Arrington	School K-12	No	This facility is connected to the middle mile network and ready to be served by a private provider. The schools are under contract until the expiration of the currently eRate contract.
Nelson Rescue Squad	Lovingston	Medical and Healthcare	No	This facility is connected to the middle mile network and ready to be served by a private provider.
Afton Family Medicine	Afton	Medical and Healthcare	No	This facility is connected to the middle mile network and ready to be served by a private provider.
Blue Ridge Medical Center	Arrington	Medical and Healthcare	No	This facility is connected to the middle mile network and ready to be served by a private provider.

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
Over the next quarter final clean up and close out of the fiber construction will occur. Deployment of the Massie's Mill tower will be in progress including frequency coordination in preparation for FCC microwave licensing and installation of the tower foundation and framing within the tower compound. The County will continue to work on business development planning with the network operator and expects to sign one additional broadband wholesaler/last mile provider agreement through the end of the next quarter.

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	99	Variance due to delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber is complete, turn up and testing will have been completed but deployment of the final tower will be in progress.
2b.	Environmental Assessment	100	No variance
2c.	Network Design	100	No variance
2d.	Rights of Way	100	No variance
2e.	Construction Permits and Other Approvals	100	No variance
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	100	No variance
2h.	Network Build (all components - owned, leased, IRU, etc.)	99	Variance due to delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber is complete, turn up and testing will have been completed but deployment of the final tower will be in progress.
2i.	Equipment Deployment	99	Variance due to delayed construction start and difficulties in securing an optimum tower location in Massie's Mill. The microwave backhaul equipment will have been received with installation on scheduled following erection of the tower.
2j.	Network Testing	99	Variance due to a delayed construction start, difficulties in securing an optimum tower location in Massie's Mill, and significant weather events that impacted resources and ground conditions. The backbone fiber construction and community anchor connections are complete, and splicing and close out testing of the fiber network will be completed in this quarter. Testing of the microwave equipment and the microwave to fiber interconnection will follow tower erection and microwave equipment installation.
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).

Nelson County experienced delays in the BTOP project implementation due to two significant weather events in the second half of 2012 and delays in securing land for the final project tower. Although behind schedule, the installation of the middle mile network is now complete and all community anchor institutions have been connected. The remaining outstanding milestone is construction of the final tower with a microwave backhaul connection to the middle mile network, and work is in progress. Barring any unforeseen weather events that would disrupt the construction schedule, the erection of the tower is expected to occur in third week of February. One aspect of completing that milestone is the installation and turn up of the wireless backhaul equipment. The electronics vendor has been selected and the microwave equipment ordered. Frequency coordination has been initiated and the public notice period is expected to close at the end of February, at which time the microwave licensing application will be submitted to the FCC.

Nelson County lies within the National Radio Quiet Zone due to its proximity to the Greenbank Observatory in West Virginia. Applicants within the Quiet Zone are not granted conditional authority to install and turn up facilities prior to receiving a formal microwave license as is typical for applicants outside of the Quiet Zone following satisfactory frequency coordination. The County does not anticipate any negative coordination results or Quiet Zone interference issues, but the FCC process will then typically consume 6 – 8 weeks before transmitting approval is granted.

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	\$241,880	\$48,376	\$193,504	\$241,386	\$48,277	\$193,109	\$241,386	\$48,277	\$193,109
b. Land, structures, right-of-ways, appraisals, etc.	\$234,020	\$46,804	\$187,216	\$120,094	\$24,965	\$95,129	\$234,515	\$46,903	\$187,612
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$315,870	\$63,174	\$252,696	\$315,869	\$63,173	\$252,696	\$315,869	\$63,174	\$252,695
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$42,250	\$8,450	\$33,800	\$42,250	\$8,450	\$33,800	\$42,250	\$8,450	\$33,800
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	\$830,304	\$166,061	\$664,243	\$830,304	\$166,061	\$664,243	\$830,304	\$166,061	\$664,243
j. Equipment	\$618,984	\$123,797	\$495,187	\$581,417	\$116,283	\$465,134	\$618,984	\$123,797	\$495,187
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
l. SUBTOTAL (add a through k)	\$2,283,308	\$456,662	\$1,826,646	\$2,131,320	\$427,209	\$1,704,111	\$2,283,308	\$456,662	\$1,826,646
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of l and m)	\$2,283,308	\$456,662	\$1,826,646	\$2,131,320	\$427,209	\$1,704,111	\$2,283,308	\$456,662	\$1,826,646

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
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