

RECIPIENT NAME:Nelson, County of

AWARD NUMBER: NT10BIX5570049

DATE: 05/14/2013

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

### QUARTERLY 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>  NT10BIX5570049	<b>3. DUNS Number</b>  052551322
<b>4. Recipient Organization</b>  Nelson, County of 84 Court House Square, Lovingson, VA 22949-0000		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  03-31-2013	<b>6. Is this the last 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>  Stephen A Carter  County Administrator	<b>7c. Telephone (area code, number and extension)</b>  4342637000	
	<b>7d. Email Address</b>  scarter@nelsoncounty.org	
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  05-14-2013	

**Project Indicators (This Quarter)**

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

The contractor and the Virginia Department of Transportation began the process of closing out the right of way construction permit addressing restoration items for contractor clean up. Construction of the final tower in Massie's Mill commenced, the tower erected and the microwave radio backhaul equipment ordered and received. The County was granted a project extension to allow the FCC licensing process to complete before grant close out. Frequency coordination was initiated in preparation for FCC application for microwave license; results indicate no interference issues, but the National Radio Quiet Zone did not provide response citing backlog in completing reviews due to the national narrow banding deadline. Submission of the FCC microwave licensing application is on hold pending a response from the Quiet Zone and Nelson County is not eligible for conditional authority to operate prior to grant of license. The County continued work with the network operator Blue Ridge InterNetworks to develop business plans for interconnections and service delivery. All grant management activities including quarterly and annual reports and network file submissions 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	99	Variance due to a delayed construction start and significant weather events that impacted resources and ground conditions. Final completion of all activities to turn up the last tower and secure microwave frequency licensing is currently delayed due to a backlog at the National Radio Quiet Zone; the Quiet Zone is currently engaged in reviewing narrow banding applications unrelated to this project. The last remaining tower was erected in this quarter but the microwave equipment will be installed and tested in the following quarter. Completion of the FCC licensing is expected to occur in the following quarter as well.
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 a delayed construction start and significant weather events that impacted resources and ground conditions. Final completion of all activities to turn up the last tower and secure microwave frequency licensing is currently delayed due to a backlog at the National Radio Quiet Zone; the Quiet Zone is currently engaged in reviewing narrow banding applications unrelated to this project. The last remaining tower was erected in this quarter but the microwave equipment will be installed and tested in the following quarter. Completion of the FCC licensing is expected to occur in the following quarter as well.
2i.	Equipment Deployment	99	Variance due to delayed construction start and significant weather events that impacted resources and ground conditions. The last remaining equipment to be deployed is for microwave backhaul between the Massie's Mill, Wintergreen and Avon towers. Equipment has been procured and will be installed in the following quarter. Testing and turn up of the equipment will occur upon receipt of licensing by FCC also expected in the following quarter.
2j.	Network Testing	99	Variance due to delayed construction start and significant weather events that impacted resources and ground conditions. Testing and turn up of the fiber network is complete. The last remaining equipment to be deployed is for microwave backhaul between the Massie's Mill, Wintergreen and Avon towers. Equipment has been procured and will be installed in the following quarter. Testing and turn up of the

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			equipment will occur upon receipt of licensing by FCC also expected in the following quarter.
2k.	Other (please specify):0	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).**

The FCC typically grants conditional authority to operate radio equipment following successful frequency coordination but prior to final licensing by the FCC. However, the Massie's Mill and Wintergreen towers are located within the National Radio Quiet Zone, an area not eligible for conditional authority. Licensing for the microwave backhaul equipment in this project has been delayed due to a backlog at the Quiet Zone. Quiet Zone personnel estimate sign off of the frequency request in the April to May time frame. BTOP technical assistance may be useful in determining conditional authority to operate if the Quiet Zone coordination letter is not forthcoming so that the County can complete all aspects of the project and close out the grant by the deadline.

**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 and significant weather events that impacted project resources. The 31 miles of backbone and interconnection drop fiber construction is complete and operational. This project originally proposed 6 miles of microwave backhaul for a total of 37 network miles but the project was modified in November 2012 increasing the microwave portion to 16 miles for a new total network mileage of 47. The microwave backhaul mileage remains to be installed. Due to a backlog at the National Radio Quiet Zone licensing for the microwave frequency is delayed but expected to complete in the following quarter.
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	0	Variance due to a misinterpretation of guidance at the time the baseline for this project was developed. Only two wireless links are funded by this project and will comprise the microwave backhaul portion of the network linking the Massie's Mill tower to the Avon tower. The wireless equipment has been received and will be installed and turned up by June 30, 2013.
Number of new towers	3	Variance due to a project modification in November 2010 that removed construction of the Colleen tower from this project. Three towers have been erected at Avon, Afton, and Massie's Mill. The Massie's Mill tower has been erected; installation, turn up and testing of the microwave equipment for the Massie's Mill tower will be completed in the following quarter.
Number of new and/or upgraded interconnection points	5	Variance due to a delayed construction start 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 has been erected but all activities to complete the tower compound and finalize frequency licensing for the microwave backhaul will occur in the following quarter.

**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:

The county is currently 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 mile 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 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. A new provider is moving forward with activities to serve new businesses. Another agreement for access to the network and collocation in the network operating center is still in negotiation with a new service provider.
	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.
	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 County facilities are receiving 15 Mbps Internet services. 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. Service providers will be charged based on the total amount of bandwidth transported monthly. Rates vary by the following circuit tiers: 0-10 Mbps; >10-25 Mbps; >25-50 Mbps; >50-100 Mbps; >100-250 Mbps; >250-500 Mbps; >500 -1000 Mbps; and >1000 Mbps.
Community Anchor Institutions (including Government institutions)	Total subscribers served	13	No variance to plan. All community anchor institutions are connected to the fiber network and can be served.
	Subscribers receiving new access	5	Network connectivity to all 13 of the network's community anchor institutions has been completed and all are capable of receiving services. The County has begun providing service to 5 county

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
			facilities. 8 institutions are ready to be served by private providers.
	Subscribers receiving improved access	8	Network connectivity to all 13 of the network's community anchor institutions has been completed and are capable of receiving services. The County is providing service to 5 county facilities. 8 institutions are ready to be served by private providers.
	Please identify the speed tiers that are available and the number or subscribers for each	0	The end user equipment has been installed at the community anchor institutions and County facilities are receiving 15 Mbps Internet services. 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. Service providers will be charged based on the total amount of bandwidth transported monthly. Rates vary by the following circuit tiers: 0-10 Mbps; >10-25 Mbps; >25-50 Mbps; >50-100 Mbps; >100-250 Mbps; >250-500 Mbps; >500 -1000 Mbps; and >1000 Mbps.
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. Service providers will be charged based on the total amount of bandwidth transported monthly. Rates vary by the following circuit tiers: 0-10 Mbps; >10-25 Mbps; >25-50 Mbps; >50-100 Mbps; >100-250 Mbps; >250-500 Mbps; >500 -1000 Mbps; and >1000 Mbps.
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. Service providers will be charged based on the total amount of bandwidth transported monthly. Rates vary by the following circuit tiers: 0-10 Mbps; >10-25 Mbps; >25-50 Mbps; >50-100 Mbps; >100-250 Mbps; >250-500 Mbps; >500 -1000 Mbps; and >1000 Mbps.

**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 deliver 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 Health Department	Colleen	Medical and Healthcare	No	This facility is connected to the middle mile network and ready to be serviced 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 the remaining tasks to finalize construction of the Massie's Mill tower will occur. The tower has been erected but final dressing of the tower compound and installation of the microwave equipment will be completed in the 2nd quarter. The microwave licensing process is expected to complete in the 2nd quarter, immediately followed by testing and turn up of 16 miles of microwave backhaul. This will complete the total 47 combined fiber and wireless network miles as approved in the November 2012 project modification. The County anticipates execution of one additional service provider agreement by the end of the quarter. Grant close out activities will complete by June 30, 2013.

**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	No variance
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.)	100	No variance
2i.	Equipment Deployment	100	No variance
2j.	Network Testing	100	No variance
2k.	Other (please specify): 0	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).**

The only challenge will lie with receiving a timely response from the National Radio Quiet Zone and the FCC in regards to microwave licensing. The Quiet Zone did not respond to the request for frequency coordination within the typical 30 day process and application to the FCC is on hold pending receipt of letter from Quiet Zone.

**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	\$224,899	\$45,926	\$178,973	\$234,515	\$46,904	\$187,611
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	\$63,173	\$252,696
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	\$618,984	\$123,797	\$495,187	\$618,984	\$123,797	\$495,187
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>l. SUBTOTAL (add a through k)</b>	<b>\$2,283,308</b>	<b>\$456,662</b>	<b>\$1,826,646</b>	<b>\$2,273,692</b>	<b>\$455,684</b>	<b>\$1,818,008</b>	<b>\$2,283,308</b>	<b>\$456,662</b>	<b>\$1,826,646</b>
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	<b>\$2,283,308</b>	<b>\$456,662</b>	<b>\$1,826,646</b>	<b>\$2,273,692</b>	<b>\$455,684</b>	<b>\$1,818,008</b>	<b>\$2,283,308</b>	<b>\$456,662</b>	<b>\$1,826,646</b>

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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