

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 NT10BIX5570082	3. DUNS Number 111089470
4. Recipient Organization University System of New Hampshire 51 College Road Service Bldg 107, Durham, NH 03824-3585		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2011	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 Scott A Valcourt Director	7c. Telephone (area code, number and extension) 6038624489	7d. Email Address sav@unh.edu
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 02-15-2012	

Project Indicators (This Quarter)

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

The Network NNHN project consists of the following four subprojects:

A - Middle Mile Fiber, New Hampshire Optical Systems (NHOS) - (68% of total project):

- Network New Hampshire Now has received 50% of Make-Ready work estimates for the aerial high speed Internet access (middle mile) fiber network.
- An Award Action Request (AAR) to change the routes where Make-Ready is challenging and to provide enhanced sustainability was drafted in December 2011.
- The project has commitments from 94 Community Anchor Institutions (CAIs) to connect to the Middle Mile network. Fourteen buildings have been prepared to connect to the middle mile network.
- Fiber acquisition has continued. Price increases for fiber optic cable are expected in 2012.

B - Middle Mile DOT Fiber, New Hampshire Department of Transportation (NH DOT) - (10.5% of total project):

- NH DOT is issuing a request for build proposal for construction in January 2012 for their segment of the middle mile portion of the project.

C - Middle Mile Microwave, NH SafeNet Public Safety Microwave Network - (9.2% of total project):

- The microwave network project has completed installations of new antennas, waveguides, and radio equipment on 3 of the 21 mountaintops in the microwave network for public safety.
- One of the BTOP funded NH Department of Safety microwave technicians has joined the project, and the other resource is expected to be hired in the coming quarter.
- The project confirmed an interoperability location with the state of Massachusetts on Mt. Grace. NH Department of Safety intends to work with Maine State Police to confirm the Maine interoperability site in January 2012.

D - Last Mile Fiber- NH FastRoads - (11.6% of total project):

- NH FastRoads awarded a contract for engineering and construction to Waveguide, Inc. The Enfield segment is nearing engineering completion, and work has commenced on phase 2 engineering in Rindge.
- The last mile project has received commitments to attach from 51 Community Anchor Institutions (CAIs).
- A Request for Proposal is in process for network equipment for the last mile backbone which is expected to be awarded in the first quarter on 2012.

Overall, the project is at or above baseline in most categories, and anticipates moving along the time line swiftly in the next quarter. We are to target to achieve 67% spend by June 2012 and 100% spend by June 2013.

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	26	<p>In section 2 below, our original baselines were based on project plan rather than financial spend percentages. Last quarter we re-aligned Percent Complete with financial expenditures. Our current project plan financial spend status is behind baseline due to delays in signing the engineering and construction vendors for Network New Hampshire Now project. Our progress is generally in line with the previous report's PPR projections.</p> <p>(Baseline 50%; -24% Variance; Previous PPR estimate 26%; no Variance) The project met the 26% projection from the previous PPR. We continue to work with utilities to process payments for Make-Ready work in as soon as estimates are received and validated We have made progress to increase throughput on pole licensing requests with utility stakeholders, and have received more than 50% of Make Ready</p>

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			estimates. Construction is proceeding on mountaintops. Engineering continues on Last Mile.
2b.	Environmental Assessment	100	Completed
2c.	Network Design	100	(Baseline 95%; Variance +5%; Previous PPR estimate: 75% - Variance +25%) Our project plan activities are at 76%. NH FastRoads has awarded their RFP contract for engineering and construction. Engineering is underway in FastRoads Phase 1 locations in Enfield, Orford, Lyme, Hanover, and Lebanon. NHOS has received it's CLEC license in Vermont. Pole applications have been completed for the middle mile route. The fiber map for the middle mile is under review.
2d.	Rights of Way	100	There are currently no financial expenditures projected in this category.
2e.	Construction Permits and Other Approvals	41	(Baseline 58%; Variance -17%; Previous PPR estimate 48%; Variance -7%) Our project plan is currently at 18%. Licenses have been received on about 4% of the route. We anticipate all licenses will be received by in the last quarter of 2012. We continue to work with the NH Public Utilities commission to complete applications on State of NH river and railroad crossings.
2f.	Site Preparation	32	(Baseline 100%; -68% Variance; Previous PPR estimate 52%; Variance -20%) Our project plan is currently at 69%. The 52% projections for last quarter was missed due to expenses that were attributed to other milestones this quarter. Make-Ready estimates for pole owners on the middle mile are currently over 50%. Third party Make-Ready estimates for the middle mile are being invoiced at higher than expected rates, and we are working with CLECs to get clarifications on increases in their Make-Ready work. Last mile has submitted pole applications for Phase 1 of their route.
2g.	Equipment Procurement	19	(Baseline 25%; -6% Variance; Previous PPR estimate 19%; Variance 0%) Our project plan is currently at 11%. We have received 34% of the fiber optic cabling. The fiber manufacturer is raising the contracted price in 2012. The microwave project has procured the majority of their equipment. The last mile project is currently reviewing RFP responses for network equipment.
2h.	Network Build (all components - owned, leased, IRU, etc)	16	(Baseline 22%; -6% Variance; Previous PPR estimate 14%; Variance +2%) Our project plan status indicates 2% of tasks completed. Strand and Fiber placement will continue in Q1 2012 as crews will be working through the winter months.
2i.	Equipment Deployment	0	(Baseline 42%; -42% Variance; Previous PPR estimate 14%; Variance -14%;) Our project plan status indicates 24% of tasks completed. Invoice for Q4 was submitted to the project too late to process in the quarter. These expenditures will be moved to Q1 2012.
2j.	Network Testing	0	(Baseline 9%; -9% Variance; Previous PPR estimate 0%; Variance 0%) Project work in this area is underway, but expenditures have not yet been incurred due to delays in signing vendors.
2k.	Other (please specify): Project Management	43	(Baseline 48%; -5% Variance; Previous PPR estimate 35%; Variance +8%) Project team attended BTOP conference in Cleveland in October. The project team hosted a regional conference for BTOP infrastructure awardees on October 13. Last Mile project has been scheduling outreach and marketing with CAIs.

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).

Fiber availability continues to be an area we are monitoring for availability and increased cost.

Third party make ready work invoices have trended significantly above budgeted estimates. The project is working with CLECs and the New Hampshire Public Utilities Commission to understand the reasons for the increased cost for their Make-Ready work.

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	60	Baseline 20.1, Variance +29.9. The 50 miles completed is between Keene, NH and Durham, NH.
New network miles leased	0	No variance
Existing network miles upgraded	0	No variance
Existing network miles leased	0	Baseline 165.5, Variance -165.5 We had anticipated 165.5 miles of in-kind fiber from vendors that had made initial commitments before our RFP process. These vendors did not receive the award. The project continues to negotiate in-kind fiber donations in pursuit of this target.
Number of miles of new fiber (aerial or underground)	60	Baseline 185.6, Variance -135.6. We had anticipated 185.6 miles of in-kind fiber from vendors that had made initial commitments before our RFP process. These vendors did not receive the award. We are considering alternative approaches.
Number of new wireless links	0	Baseline 13, Variance -13 We had anticipated completion of 13 wireless links in the microwave public safety network in our baseline. Due to the critical nature of public safety communications, this project was re-engineered to construct a parallel system alongside the old and then bring all new links on line and decommission the old links in Q2 2013.
Number of new towers	0	No variance
Number of new and/or upgraded interconnection points	3	Baseline 3, no variance Connections are in Durham (University of New Hampshire), Manchester (DSCI), and Keene (Keene State College)

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	0
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	14
Average term of signed agreements (in quarters)	0

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: None this quarter.

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: None this quarter.

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 this third party operates (600 words or less).
None this quarter.

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	0	No variance
	Providers with signed agreements receiving improved access	0	No variance
	Providers with signed agreements receiving access to dark fiber	0	No variance
	Please identify the speed tiers that are available and the number of subscribers for each	0	No variance
Community Anchor Institutions (including Government institutions)	Total subscribers served	7	Variance -8. Baseline had estimated 15 CAIs connected. Due to delayed start in subprojects CAI connections are below projections. To date the project has 99 commitments to connect once the network is available. The project has also completed work on building entrances for 14 of the CAIs. These CAIs are poised to connect to the Middle Mile network.
	Subscribers receiving new access	0	Variance -4. Baseline had estimated 4 CAIs with new access. Due to delayed start in subprojects CAI connections are below projections. To date the project has 99 commitments to connect once the network is available. The project has also completed work on building entrances for 14 of the CAIs. These CAIs are poised to connect to the Middle Mile network.
	Subscribers receiving improved access	7	Variance -4. Baseline had estimated 11 CAIs with improved access. Due to delayed start in subprojects CAI connections are below projections. To date the project has 99 commitments to connect once the network is available. The project has also completed work on building entrances for 14 of the CAIs. These CAIs are poised to connect to the Middle Mile network.
	Please identify the speed tiers that are available and the number or subscribers for each	7	Provided up to 10GB backbone between the University of New Hampshire and corresponding CAIs.
Residential / Households	Entities passed	0	No variance
	Total subscribers served	0	No variance
	Subscribers receiving new access	0	No variance
	Subscribers receiving improved access	0	No variance
	Please identify the speed tiers that are available and the number of subscribers for each	0	No variance
Businesses	Entities passed	0	Variance -109 FastRoads engineering underway Phase 1 construction should be completed by Q2 2012.
	Total subscribers served	0	Variance -12 FastRoads engineering underway Phase 1 construction should be completed by Q2 2012.
	Subscribers receiving new access	0	Variance -2 FastRoads engineering underway Phase 1 construction should be completed by Q2 2012.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Subscribers receiving improved access	0	Variance -10 FastRoads engineering underway Phase 1 construction should be completed by Q2 2012.
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

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

No variance

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 changes

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
University of New Hampshire	Durham	Higher Education	Y	Geo-diverse disaster recovery and Backups; Primary and Alternate Internet access Improved bandwidth and improved research and education internet
Dimond Library	Durham	Library	Y	Geo-diverse disaster recovery and Backups; Primary and Alternate Internet access Improved bandwidth and improved research and education internet
McGregor Memorial EMS	Durham	Safety	Y	Internet access; Improved bandwidth
Durham Fire Department	Durham	Safety	Y	Internet access; Improved bandwidth
Durham Rail Station	Durham	Municipal	Y	Internet access; Improved bandwidth
Keene State College	Keene	Higher Education	Y	Geo-diverse disaster recovery and Backups; Primary and Alternate Internet access Improved bandwidth and improved research and education internet
Mason Library	Keene	Library	Y	Geo-diverse disaster recovery and Backups; Primary and Alternate Internet access Improved bandwidth and improved research and education internet

Project Indicators (Next Quarter)

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

Upcoming accomplishments in Q1 2012:

A - Middle Mile Fiber, New Hampshire Optical Systems (NHOS) - (68% of total project):

- Surveys on the entire Middle Mile route will be 100% complete and 90% of Make-Ready estimates will be received.
- The Award Action Request (AAR) submitted in December 2011 will be reviewed and routes will be updated upon approval.
- Continue to solicit Community Anchor Institutions (CAIs) to connect to the middle mile network. Complete an additional 4 buildings to prepare for connection to the middle mile network.
- Continue fiber acquisition. Price increases for fiber optic cable are expected to be 7% in 2012.

- Hang strand in licensed portions of the route.
 - Identify reasons for increased Make Ready costs for CLECs.
 - Solicit ISPs.
- B - Middle Mile DOT Fiber, New Hampshire Department of Transportation (NH DOT) - (10.5% of total project):
- Award build proposal for construction for DOT segment of the middle mile portion of the project and purchase conduit and manhole supplies.
- C - Middle Mile Microwave, NHSafeNet Public Safety Microwave Network - (9.2% of total project):
- Completed installations of new antennas, waveguides, and radio equipment on 6 of the 21 mountaintops in the microwave network for public safety.
 - Complete hiring NH Department of Safety microwave technicians.
 - Finalize Interoperability site with Maine State Police and apply for license.
 - Update Canadian licensing approval.
 - Continue MPLS design for network.
- D - Last Mile Fiber- NH FastRoads - (11.6% of total project):
- Complete engineering in Enfield and Rindge.
 - Solicit Residences to connect to the network.
 - Solicit ISPs.
 - Continue to engage additional Community Anchor Institutions (CAIs) to connect to the last mile.
 - Award contract for network equipment for the last mile.

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	45	Baseline 59% Delays in hiring engineering and construction vendor are the primary reason for the discrepancy between baseline and next quarter's projected % complete. Anticipate to complete pole applications for the middle mile in the coming quarter and to complete a substantial amount of Make-Ready work and obtain an estimated 25% of pole licenses across the route. DOT anticipated to purchase components for its portion of the project Engineering work continues on last mile. Mountaintop builds continue across NH.
2b.	Environmental Assessment	100	Completed
2c.	Network Design	100	Baseline 98% Project Plan 85% Actual spend is anticipated be 107% and will include additional engineering and pole application expenses.
2d.	Rights of Way	100	No expenditures scheduled in this milestone
2e.	Construction Permits and Other Approvals	46	Baseline 71% Project Plan 30%. Continue to work with Utilities and Third Parties to accelerate licensure of poles.
2f.	Site Preparation	61	Baseline 100% Project Plan 74% Anticipate surveys to be complete on the middle mile and Make Ready expenses to be available for 90% of the route. Last Mile engineering and Make-Ready continues.
2g.	Equipment Procurement	32	Baseline 38% Project Plan 14% Continue to obtain fiber optic cable. Microwave equipment expected to be invoiced this quarter.
2h.	Network Build (all components - owned, leased, IRU, etc.)	40	Baseline 30% Project Plan 2%. Anticipate increased middle mile construction in the coming quarter.
2i.	Equipment Deployment	25	Baseline 51% Project Plan 34% Anticipate invoice for 3 mountaintop builds from this quarter and expenses for additional mountaintop builds during the coming quarter.
2j.	Network Testing	0	Baseline 9% Project Plan 0%. Network testing is anticipated to begin in Q3 2012.
2k.	Other (please specify): Project Management	50	Baseline 57% Project Plan 51%

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 unusually mild winter in New Hampshire thus far has enabled us to complete surveys and continue Make-Ready on the Middle Mile route. It has also enabled us to complete construction on three mountaintops and schedule and additional 3 in the coming quarter. We hope for continued support from Mother Nature.

We continue to work with vendors to secure fiber optic cable as delivery times communicated are uncertain.

We are working with the NH electric companies and Third parties to increase capacity and to streamline and expedite time frames for Make Ready work. We are also working with Third party CLECs to get clarification on their Make-Ready estimates, which are being submitted at rates 3-4 times the anticipated Make-Ready rates.

We are working with the NH Public Utilities Commission to reduce time frames and resources needed to complete River and Railroad requests.

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	\$5,210,962	\$87,543	\$5,123,419	\$2,247,877	\$50,058	\$2,197,819	\$2,580,385	\$60,356	\$2,520,029
b. Land, structures, right-of-ways, appraisals, etc.	\$72,000	\$21,482	\$50,518	\$0	\$0	\$0	\$72,000	\$21,600	\$50,400
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$4,792,609	\$551,338	\$4,241,271	\$4,280,659	\$274,478	\$4,006,180	\$4,666,590	\$375,682	\$4,290,907
e. Other architectural and engineering fees	\$176,530	\$18,860	\$157,670	\$136,110	\$21,160	\$114,950	\$161,470	\$21,160	\$140,310
f. Project inspection fees	\$153,939	\$45,930	\$108,009	\$0	\$0	\$0	\$51,313	\$15,394	\$35,919
g. Site work	\$7,359,864	\$2,061,461	\$5,298,403	\$3,049,593	\$0	\$3,049,593	\$5,581,505	\$0	\$5,581,505
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$23,982,324	\$2,555,718	\$21,426,606	\$1,857,894	\$0	\$1,857,894	\$3,321,893	\$56,385	\$3,265,508
j. Equipment	\$23,073,047	\$15,918,722	\$7,154,325	\$5,540,093	\$4,628,460	\$911,634	\$13,206,914	\$11,085,175	\$2,121,739
k. Miscellaneous	\$1,026,617	\$105,846	\$920,771	\$98,000	\$29,400	\$68,600	\$98,000	\$29,400	\$68,600
l. SUBTOTAL (add a through k)	\$65,847,892	\$21,366,900	\$44,480,992	\$17,210,226	\$5,003,556	\$12,206,670	\$29,740,070	\$11,665,152	\$18,074,917
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of l and m)	\$65,847,892	\$21,366,900	\$44,480,992	\$17,210,226	\$5,003,556	\$12,206,670	\$29,740,070	\$11,665,152	\$18,074,917

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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