

**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>  NT10BIX5570082	<b>3. DUNS Number</b>  111089470
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**4. Recipient Organization**

University System of New Hampshire 51 College Road  
 Service Bldg 107, Durham, NH 03824-3585

<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  03-31-2012	<b>6. Is this the last Report of the Award Period?</b>  <input type="radio"/> Yes <input checked="" type="radio"/> No
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**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>7a. Typed or Printed Name and Title of Certifying Official</b>  Scott A Valcourt  Director	<b>7c. Telephone (area code, number and extension)</b>  6038624489
	<b>7d. Email Address</b>  sav@unh.edu

<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  05-10-2012
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**Project Indicators (This Quarter)**

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

Accomplishments in Q1 2012:

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

- Surveys on the entire Middle Mile route are 94% complete and 84% of Make-Ready estimates have been received. The project team continues to meet with electric company officials to accelerate the schedule for surveys and Make-Ready work.
- The Award Action Request (AAR) submitted in December 2011 was revised during Q1 2012 and has been resubmitted. The request is expected to be reviewed in the coming quarter and routes will be updated upon approval.
- The project continues to receive commitments from Community Anchor Institutions (CAIs) to connect to the Middle-Mile network. 23 buildings have been updated to receive fiber connections.
- The Middle Mile fiber optic cable inventory is currently at 79%.
- Strand has been constructed on 77 miles of the route. Fiber is now up on 66 miles of the route.
- Third party Make-Ready expenses are being closely monitored and managed. The project is reaching out to multiple stakeholders to understand the justification of third party Make-Ready quotes that are significantly higher than anticipated.
- NHOS is actively negotiating contracts with 2 ISPs.

B - Middle Mile DOT Fiber, New Hampshire Department of Transportation (NH DOT) - (11% of total project):

- Awarded build proposal for construction for DOT segment of the Middle Mile portion of the project. Equipment purchases will commence upon final approval at NH Governor and Council review in Q2 2012.

C - Middle Mile Microwave, NH SafeNet Public Safety Microwave Network - (9% of total project):

- Completed installations of new antennas, waveguides, and radio equipment on 12 of the 20 sites in the microwave network for public safety.
- Completed hiring NH Department of Safety microwave technicians.
- Finalized interoperability site, Mt Ossipee, with Maine State Police and applied for corresponding FCC licenses.
- Canadian licensing approval received.
- MPLS design for the network continued. Functionality testing expected to complete in the coming quarter.

D - Last Mile Fiber- NH FastRoads - (12% of total project):

- Completed engineering and commenced Make-Ready in Phase 1, Enfield.
- 120 Residences have signed agreements connect to the network.
- Agreement discussions are being conducted with ISPs.
- 73 Community Anchor Institutions (CAIs) have signed agreements to connect to the last mile network.
- Network Design is complete.
- Finalist has been identified for network equipment contract for the Last Mile. The award will occur in Q2 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 on 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	48	In section 2 below, our original baselines were based on project plan rather than financial spend percentages. We have 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.  (Baseline 59%; -11% Variance; Previous PPR estimate 45%; Variance)
2b.	Environmental Assessment	100	Completed

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2c.	Network Design	100	(Percent complete is actually trending at 116% - "Percent Complete" field will only accept 100; Baseline 98%; 14% Variance; Previous PPR estimate 107%; 9% Variance) The project has spent additional effort engineering to address Make-Ready challenges on various parts of the middle-mile route.
2d.	Rights of Way	100	No expenditures scheduled in this milestone.
2e.	Construction Permits and Other Approvals	44	(Baseline 71%; -27% Variance; Previous PPR estimate 46%; 1% Variance) The NH Public Utilities Commission is continuing to process river and railroad crossing permits.
2f.	Site Preparation	67	(Baseline 100%; -33% Variance; Previous PPR estimate 61%; 6% Variance) Middle Mile Make-Ready expenses continue to come in higher than planned. FastRoads has commenced make ready on their portion of the route.
2g.	Equipment Procurement	39	(Baseline 38%; 1% Variance; Previous PPR estimate 32%; 7% Variance) Continuing to acquire fiber optic cables and materials and microwave equipment.
2h.	Network Build (all components - owned, leased, IRU, etc)	40	(Baseline 30%; 10% Variance; Previous PPR estimate 40%; no Variance)
2i.	Equipment Deployment	5	(Baseline 51%; -46% Variance; Previous PPR estimate 25%; -20% Variance) An invoice from one of the vendors missed the processing deadline for quarter end. If included, the previous quarterly PPR projection would have been met.
2j.	Network Testing	0	(Baseline 9%; -24% Variance; Previous PPR estimate 0%; no Variance)
2k.	Other (please specify): Project Management	50	(Baseline 57%; -7% Variance; Previous PPR estimate 50%; no Variance)

**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).**

We are continuing to finalize an interoperability agreement with the Maine State Police and the Massachusetts State Police for interconnection at the Mt. Ossipee and Mt. Grace sites. The Memorandum of Understanding has been drafted and is under review in Maine.

Our sub-recipient, NHOS, will be submitting a memo to the National Telecommunications Information Administration (NTIA) outlining the challenging pole attachment process and environment in New Hampshire.

The river and railroad crossing permitting process is taking longer than anticipated and we continue to work with the NH Public Utilities Commission to expedite these permits.

Match funding across all projects should be finalized in Q2 2012.

**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	66	Baseline 33.1, Variance 32.9.
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

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
		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)	66	Baseline 198.6, Variance -132.6. Although we are ahead of projections in new network Miles deployed, we had anticipated 165.6 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 which have been included in a recent Award Action Request.
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 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)

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
Community Anchor Institutions (including Government institutions)	Please identify the speed tiers that are available and the number of subscribers for each	0	No variance
	Total subscribers served	7	Variance -8. Baseline had estimated 15 CAIs connected. Due to a delayed start in subprojects CAI connections are below projections. To date, the project has 130 commitments to connect once the network is available. The project has also completed work on 23 building entrances. 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 a delayed start in subprojects CAI connections are below projections. To date, the project has 130 commitments to connect once the network is available. The project has also completed work on 23 building entrances. 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 a delayed start in subprojects CAI connections are below projections. To date the project has 130 commitments to connect once the network is available. The project has also completed work on 23 building entrances. These CAIs are poised to connect to the Middle Mile network.
Residential / Households	Please identify the speed tiers that are available and the number of subscribers for each	7	Provided up to 10GB backbone between the University of New Hampshire and corresponding CAIs.
	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
Businesses	Please identify the speed tiers that are available and the number of subscribers for each	0	No variance
	Entities passed	0	Variance -109 FastRoads engineering is underway and Phase 1 construction should be completed by Q4 2012.
	Total subscribers served	0	Variance -12 FastRoads engineering is underway and Phase 1 construction should be completed by Q4 2012.
	Subscribers receiving new access	0	Variance -2 FastRoads engineering is underway and Phase 1 construction should be completed by Q4 2012.
	Subscribers receiving improved access	0	Variance -10 FastRoads engineering is underway and Phase 1 construction should be completed by Q4 2012.

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
N/A	N/A	N/A	N/A	No additional CAIs connected this quarter

**Project Indicators (Next Quarter)**

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

Upcoming accomplishments in Q2 2012:

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

- Surveys on the entire Middle Mile route will be 98% complete and 90% of Make-Ready estimates will be paid.
- 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.
- All fiber (187 reels) will be acquired.
- Hang strand in licensed portions of the route. Additional 80 miles (157 miles cumulative)
- Monitor and report on increased third party Make-Ready costs.
- Monitor and report on third party Make-Ready delays affecting project time line.
- Solicit ISPs.

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

- Pre-construction kickoff meetings
- Procure materials (May 2012)
- Commence construction

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

- Completed installations of new antennas, waveguides, and radio equipment on 16 of the 20 sites in the microwave network for public safety.
- Finalize Memorandum of Understanding documents with Maine and Massachusetts State Police.
- Complete tower licenses
- Continue MPLS design for network
- Commence RFP process for Datacasting equipment

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

- All pole applications for all phases will be completed and submitted.
- Make-Ready work will begin continue for all phases.
- Third party Make-Ready work will begin for Phase 1.
- Equipment required for Phase 1 will be ordered for network build and core and access network equipment.

**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	70	Baseline 74% Delays in hiring engineering and construction vendor are the primary reason for the discrepancy between baseline and next quarter's projected percent completion. Anticipate to complete pole surveys for the Middle Mile in the coming quarter and to complete a substantial amount of Make-Ready work and obtain an estimated 90% of pole licenses across the route. DOT anticipated to purchase components for its portion of the project. Make-Ready work continues on the Last Mile. Mountaintop builds continue across NH.
2b.	Environmental Assessment	100	Completed.
2c.	Network Design	100	Baseline 100% Actual is at 122% due to increased Make-Ready costs.
2d.	Rights of Way	100	No expenditures scheduled in this milestone.
2e.	Construction Permits and Other Approvals	56	Baseline 87% Anticipate increased middle mile and last mile construction in the coming quarter.
2f.	Site Preparation	100	Baseline 100% Anticipate all Make Ready expenses to be finalized this quarter.
2g.	Equipment Procurement	66	Baseline 47% Continue to obtain fiber optic cable. Procurement of equipment for FastRoads network and construction and DOT construction will occur this quarter.
2h.	Network Build (all components - owned, leased, IRU, etc.)	56	Baseline 57%
2i.	Equipment Deployment	34	Baseline 59% FastRoads network equipment anticipated to be deployed.
2j.	Network Testing	0	Baseline 14% Network testing is anticipated to begin in Q3 2012.
2k.	Other (please specify): Project Management	60	Baseline 66%

**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).**

Third party Make-Ready continues to be the most significant challenge in completing this network. The project is working with the NH State Public Utilities commission to address these issues. In addition, a memo will be filed with the NTIA outlining these challenges and the action plans taken to address these issues.

**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	\$2,608,775	\$75,130	\$2,533,645	\$2,978,328	\$81,525	\$2,896,803
b. Land, structures, right-of-ways, appraisals, etc.	\$72,000	\$21,482	\$50,518	\$4,819	\$1,300	\$3,519	\$72,000	\$21,482	\$50,518
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	\$5,042,169	\$376,807	\$4,665,362	\$5,375,125	\$431,068	\$4,944,058
e. Other architectural and engineering fees	\$176,530	\$18,860	\$157,670	\$150,630	\$23,560	\$127,070	\$163,870	\$24,560	\$139,310
f. Project inspection fees	\$153,939	\$45,930	\$108,009	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$7,359,864	\$2,061,461	\$5,298,403	\$5,870,250	\$0	\$5,870,250	\$9,463,623	\$2,061,461	\$7,402,162
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$23,982,324	\$2,555,718	\$21,426,606	\$4,557,801	\$167,403	\$4,390,398	\$9,693,402	\$1,103,120	\$8,590,282
j. Equipment	\$23,073,047	\$15,918,722	\$7,154,325	\$13,269,067	\$11,290,281	\$1,978,785	\$17,796,160	\$14,690,739	\$3,105,420
k. Miscellaneous	\$1,026,617	\$105,846	\$920,771	\$116,454	\$29,400	\$87,054	\$254,966	\$68,600	\$186,366
<b>l. SUBTOTAL (add a through k)</b>	\$65,847,892	\$21,366,900	\$44,480,992	\$31,619,965	\$11,963,881	\$19,656,083	\$45,797,474	\$18,482,555	\$27,314,919
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	\$65,847,892	\$21,366,900	\$44,480,992	\$31,619,965	\$11,963,881	\$19,656,083	\$45,797,474	\$18,482,555	\$27,314,919

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