

**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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<b>4. Recipient Organization</b>  University System of New Hampshire 51 College Road Service Bldg 107, Durham, NH 03824-3585
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<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2011	<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>  11-16-2011
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**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 begun to receive Make Ready work estimates for the aerial high speed Internet access (middle mile) fiber network after a short delay due to the effects of Hurricane Irene.
- Some of the routes initially identified in the project are being reviewed for the submission of an Award Action Request (AAR) to change the routes where Make Ready is not possible.

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

- NH DOT is finalizing a request for build proposal for construction of 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 almost completed the assessment of tower support and in-building equipment changes required for the removal and addition of new antennas and radio equipment on the 21 mountaintops in the microwave network for public safety.
- The hiring process for the new microwave technicians to work on the project is in the final external posting process and should have new personnel hired in the coming quarter.

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

- The New Hampshire FastRoads last-mile project has received a CLEC license with the State of New Hampshire and is finalizing the contract awarded via Request For Proposal for engineering and construction.

Overall, the project is at or above baseline in some 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. We project that we will achieve our current baseline target of 42% in the Jan-Mar 2012 quarter.

**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	13	(Baseline 42%; -29% Variance) - We met our previous PPR estimate of 13%. Expenses such as Make Ready and equipment purchases were delayed due to delays in signing vendor agreements. We have seen significant progress in Make Ready work and are continuing to work with utilities to accelerate survey and Make Ready work.
2b.	Environmental Assessment	100	Completed
2c.	Network Design	71	(Baseline 92%; -21% Variance) Baseline was calculated against project activity. Network design is behind baseline estimates due to delays in signing agreements with construction vendors and delays by electric companies responding to requests for pole surveys. Hurricane Irene recovery in early September 2011 was a priority for utilities, and survey work for pole licenses was delayed. Despite these challenges, we have seen a significant increase in survey and Make Ready quotes over the last quarter. The NH FastRoads construction vendor negotiations have taken longer than planned, but should be finalized in October 2011. Project plan work in Network Design should be complete as forecasted in the baseline by the end of Q8 (Q2 2012). Our project plan status indicates 69% of tasks completed.
2d.	Rights of Way	0	(Baseline 44%; -44% Variance) Baseline was calculated against project activity. Tracking of pole surveys and make ready responses will be moved in our project plan to Site Preparation to more accurately align

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			with financial projections. There are currently no financial expenditures projected in this category.
2e.	Construction Permits and Other Approvals	40	(Baseline 53%; -13% Variance) Baseline was calculated against project activity. Delays in hiring construction vendor delayed work in submitting applications for pole licenses. Pole license applications were submitted on the route in Q2 2011, and we have received Make Ready estimates for over a quarter of the route. We continue to expect a substantial amount of progress on Make Ready estimates on the route in Q6 (Q4 2011). Licences have started to be granted for portions of the route. Licensing should be completed by Q3 2012. Our project plan status indicates 17% of tasks completed.
2f.	Site Preparation	21	(Baseline 100%; -79% Variance) Baseline was calculated against project activity. NH DOT is the only area of the project with site preparation work in the project plan, and this has been moved to a completion date of December 2012. An open road tolling project on the same route as our BTOP project was approved between the application submittal and award of the BTOP grant. The engineering for open road tolling delayed the final engineering work for the BTOP grant. The DOT project will only take six months to complete, and accounts for only 10% of the overall project budget, so despite the delay in starting this area, it will not affect our ability to complete the project on schedule. Financial expenditures have been incurred related to Make Ready in this area. Our project plan status indicates 0% of tasks completed.
2g.	Equipment Procurement	4	(Baseline 20%; -16% Variance) Baseline was calculated against project activity. The purchase order was issued for the fiber for the entire middle mile route. This bulk purchase is necessary as a result of the fiber supply drought caused by national and worldwide disasters. We have received 15% of the fiber optic cabling, which is less than had been anticipated for this quarter, but we are confident we will obtain the remaining fiber. We were recently informed that the fiber manufacturer is raising the contracted price in 2012. Our project plan status indicates 11% of tasks completed.
2h.	Network Build (all components - owned, leased, IRU, etc)	6	(Baseline 15%; -9% Variance) Baseline was calculated against project activity. Fifty miles of fiber have been deployed between Manchester and Keene, NH. Strand and Fiber placement will continue in Q4 2011 as crews will be working through the winter months. This will enable the project to be closer to our original baseline. Our project plan status indicates 2% of tasks completed.
2i.	Equipment Deployment	0	(Baseline 27%; -27% Variance) Baseline was calculated against project activity. Project work in this area is underway, but expenditures have not yet been incurred due to delays in signing vendors. Our project plan status indicates 24% of tasks completed.
2j.	Network Testing	0	(Baseline 8%; -8% Variance) Baseline was calculated against project activity. Project work in this area is underway, but expenditures have not yet been incurred due to delays in signing vendors. Our project plan status indicates 0% of tasks completed.
2k.	Other (please specify): Project Management	31	(Baseline 40%; 9% Variance) Baseline was calculated against project activity. As the majority of vendors have been signed, project plan activities are back on schedule. Expenditures lag due to delays in signing vendors. Our project plan status indicates 40% of tasks completed.

**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 project is scheduling meetings with the New Hampshire Public Utilities Commission and statewide electric utilities to review the companies' ability to perform the Make Ready work for our aerial installations and meet the necessary deadlines. We are working with project managers with the local exchange carriers, and have had good response on survey and Make Ready requests. Make Ready on the poles continues to be an area of focus for the project.

Hurricane Irene in early September delayed the ability of utility companies to schedule surveys.

New Hampshire FastRoads negotiations for their construction vendor has taken longer than anticipated, and the vendor should be signed in October 2011. Work will be done with the new vendor to address opportunities to meet project deliverables.

**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	50	Project is ahead of projections by 29.9 miles for new miles built.
New network miles leased	0	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. NNHN continues to negotiate in-kind fiber donations in pursuit of this target.
Existing network miles upgraded	0	No variance
Existing network miles leased	0	No variance
Number of miles of new fiber (aerial or underground)	50	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	We had anticipated completion of 8 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	0	We had anticipated one interconnection point at baseline that was associated with the NH Department of Transportation middle mile work. Work on this project has been rescheduled for Q1 2012 and is anticipated to be completed in 2012.

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	0
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)
<b>Broadband Wholesalers or Last Mile Providers</b>	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
<b>Community Anchor Institutions (including Government institutions)</b>	Total subscribers served	0	We had anticipated 3 CAIs at baseline that was associated with the NH Department of Transportation middle mile work. Work on this project has been rescheduled for Q1 2012 and is anticipated to be completed in 2012.
	Subscribers receiving new access	0	We had anticipated 2 CAIs at baseline that was associated with the NH Department of Transportation middle mile work. Work on this project has been rescheduled for Q1 2012 and is anticipated to be completed in 2012.
	Subscribers receiving improved access	0	We had anticipated 1 CAI at baseline that was associated with the NH Department of Transportation middle mile work. Work on this project has been rescheduled for Q1 2012 and is anticipated to be completed in 2012.
	Please identify the speed tiers that are available and the number or subscribers for each	0	N/A at this time
<b>Residential / Households</b>	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
<b>Businesses</b>	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

**7. Please describe any special offerings you may provide (600 words or less).**  
IRU leases across the network will be provided to the University System of New Hampshire, NH FastRoads, and project partners.

**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 resulted this quarter.

**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
none this quarter	none this quarter	none this quarter	none this quarter	none this quarter

**Project Indicators (Next Quarter)**

**1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).**  
We anticipate that our Make Ready/Construction to be 15% complete by the end of Q4 2011. NH FastRoads will award an engineering and construction contract in October, and will issue an RFP for Core Network equipment in early November. The NH SafeNet public safety microwave project will have completed installations at 2 of the 22 towers in the public safety network. Several members of the project team and subawardees will attend the Broadband Technology Opportunities Program (BTOP) mid course conference in Cleveland in early October. Network NH Now will host a regional meeting of BTOP infrastructure recipients in mid October focusing on sustainability and construction. The New Hampshire Department of Transportation will release a vendor bid request in November. The network fiber map will be completed for middle mile in November 2011. An Award Action Request (AAR) will be submitted in Q4 2011 to address network map changes. The project will also file a match justification update and a network valuation document during Q4 2011.

During the Make Ready period, the project is completing work to install fiber at CAI locations that will connect to the network. We anticipate 15 buildings will be ready for connection during the upcoming quarter, and will account for 3 miles of new fiber deployed.

**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	26	Baseline 50% We continue to work with utilities to process payments for Make Ready work in as soon as estimates are received and validated. We are also seeking opportunities to increase throughput on pole licensing requests with utility stakeholders. We will be addressing building entrance connections to CAIs in the coming quarter.
2b.	Environmental Assessment	100	Complete
2c.	Network Design	75	Baseline was estimated at 95% and was based on project plan activity. Our project plan indicates we will be at 80%. Percent of budget expended is projected at 75%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates. Once the FastRoads engineering and construction RFP is awarded in October we will work with the vendor to obtain a revised timeline on remaining network design work.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2d.	Rights of Way	100	Baseline was estimated at 68% and was based on project plan activity. Percent of budget expended is N/A as there are no financial expenditures budgeted for Rights of Way. Project activity for this category has been moved to the Site Preparation category. Going forward the projection will continue to be 100.
2e.	Construction Permits and Other Approvals	48	Baseline was estimated at 58% and was based on project plan activity. Our project plan indicates we will be at 21%. Percent of budget expended is projected at 48%. Original estimates in this milestone were based on project progress of submitting applications and receiving pole licenses earlier than actually occurred. We continue to work with utilities to accelerate the timelines for licensure. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.
2f.	Site Preparation	52	Baseline was estimated at 100% and was based on project plan activity. Our project plan indicates we will be at 51%. Percent of budget expended is projected at 52%. Original estimates in this milestone were based on project progress on receiving make ready quotes. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.  All NH Pole applications have been submitted, and it is anticipated that we will have received 50% of Make Ready estimates and that we will have received 15% of our pole licenses on the route.
2g.	Equipment Procurement	19	Baseline was estimated at 25% and was based on project plan activity. Our project plan indicates we will be at 11%. Percent of budget expended is projected at 19%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates. Portions of fiber optic cable are expected to be delivered in the next quarter.
2h.	Network Build (all components - owned, leased, IRU, etc.)	14	Baseline was estimated at 22% and was based on project plan activity. Our project plan indicates we will be at 8%. Percent of budget expended is projected at 14%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.
2i.	Equipment Deployment	16	Baseline was estimated at 42% and was based on project plan activity. Our project plan indicates we will be at 33%. Percent of budget expended is projected at 16%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.
2j.	Network Testing	0	Baseline was estimated at 9% and was based on project plan activity. Our project plan indicates we will be at 0%. Percent of budget expended is projected at 0%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.
2k.	Other (please specify): Project Management	35	Baseline was estimated at 48% and was based on project plan activity. Our project plan indicates we will be at 44%. Percent of budget expended is projected at 35%. Original estimates in this milestone were based on project progress. We have aligned our budget to these milestone categories and this and future reports will include both financial and project plan estimates.

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

We are working with the NH electric companies to increase capacity and to streamline and expedite time frames for pole surveys and Make Ready work.

Snowy and icy weather may also slow Make Ready work. We currently expect to be about 15% completed with Make Ready on our route by December 2011, and completed with Make Ready by Q4 2012.

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

We are meeting with Maine State Police to finalize on a tower site in Maine for the interoperability connection for the NH and Maine public safety networks.

Tenney Mountain requires a lease modification to handle additional dishes and this process is taking longer than anticipated to

RECIPIENT NAME:University System of New Hampshire

AWARD NUMBER: NT10BIX5570082

DATE: 11/16/2011

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

complete.



### 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	\$1,910,696	\$40,000	\$1,870,696	\$2,229,874	\$50,054	\$2,179,820
b. Land, structures, right-of-ways, appraisals, etc.	\$72,000	\$21,482	\$50,518	\$0	\$0	\$0	\$0	\$0	\$0
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	\$2,332,251	\$265,942	\$2,066,309	\$3,281,906	\$1,050,821	\$2,231,085
e. Other architectural and engineering fees	\$176,530	\$18,860	\$157,670	\$128,910	\$13,960	\$114,950	\$163,290	\$17,860	\$145,430
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	\$1,970,100	\$0	\$1,970,100	\$6,763,964	\$0	\$6,763,964
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$23,982,324	\$2,555,718	\$21,426,606	\$232,255	\$0	\$232,255	\$297,700	\$65,445	\$232,255
j. Equipment	\$23,073,047	\$15,918,722	\$7,154,325	\$2,204,406	\$1,808,956	\$395,450	\$5,768,974	\$3,822,021	\$1,946,953
k. Miscellaneous	\$1,026,617	\$105,846	\$920,771	\$98,000	\$29,400	\$68,600	\$98,000	\$29,400	\$68,600
<b>l. SUBTOTAL (add a through k)</b>	<b>\$65,847,892</b>	<b>\$21,366,900</b>	<b>\$44,480,992</b>	<b>\$8,876,618</b>	<b>\$2,158,258</b>	<b>\$6,718,360</b>	<b>\$18,603,708</b>	<b>\$5,035,601</b>	<b>\$13,568,107</b>
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	<b>\$65,847,892</b>	<b>\$21,366,900</b>	<b>\$44,480,992</b>	<b>\$8,876,618</b>	<b>\$2,158,258</b>	<b>\$6,718,360</b>	<b>\$18,603,708</b>	<b>\$5,035,601</b>	<b>\$13,568,107</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