

**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>  NT10BIX5570045	<b>3. DUNS Number</b>  161202122
<b>4. Recipient Organization</b>  University of Wisconsin System Research & Sponsored Programs 21 N. Park St., Ste. 6401, Madison, WI 53715-1218		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2012	<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>  Dawn-Marie M. Roberts	<b>7c. Telephone (area code, number and extension)</b>  6082620152	
	<b>7d. Email Address</b>  droberts4@rsp.wisc.edu	
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  11-13-2012	

<b>Project Indicators (This Quarter)</b>			
<p><b>1. Please describe significant project accomplishments completed during this quarter (600 words or less).</b>                      In 3Q2012, UW completed 7 Community Anchor Institution (CAI) connections in the Monona Drive Service Area (phase 3) and a total of 5.3 miles (48 miles completed for project). We also submitted a rebudget request (approval received on 8/30/12), environmental assessment and programmatic documents for route changes in the Mineral Point Rd (Watts Rd), Monona Drive, S. Park St, E. Washington Ave and Northport Drive service areas. Finally, during the quarter we also let out an RFB for purchasing direct current (DC) power systems and an RFP for purchasing optical hardware.</p>			
<p><b>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).</b></p>			
	<b>Milestone</b>	<b>Percent Complete</b>	<b>Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)</b>
2a.	<b>Overall Project</b>	67	The Finding of No Significant Impact (FONSI) timing and weather caused our delay from our baseline projection. The FONSI was received in December 2010 which prevented construction activities to commence in November 2010 as originally planned. We expect to move in line with baseline schedule in 4Q2012 based on rebudget request as we have been running well under our initially proposed construction budget
2b.	<b>Environmental Assessment</b>	95	The Finding of No Significant Impact (FONSI) timing (received 12/24/2010) & 2010 winter weather caused delays from our baseline projection. Did not perform lateral construction work in 3Q2012 in Monona Dr service area requiring on-site archaeologist as expected but will do so in 4Q2012. We will be in line with baseline in 4Q2012.
2c.	<b>Network Design</b>	100	N/A
2d.	<b>Rights of Way</b>	92	Finalizing license agreement with MG&E (electrical utility pole provider) once Monona Dr route change is approved. This will be done in 4Q2012 assuming route change approval is received.
2e.	<b>Construction Permits and Other Approvals</b>	94	Need to obtain permits in Monona Dr and Mineral Point Rd route change areas (pending NTIA approval). Expect permit for last CAI on E. Washington Ave and last 2 in University Ave service area in early 4Q2012 as road work fell behind schedule by 2 weeks so MUFN could not obtain excavation permits by end of 3Q2012 as previously expected. Will meet baseline in 4Q2012.
2f.	<b>Site Preparation</b>	67	Contractor fell behind planned 3Q2012 completion due to delays with inspections. Will meet baseline in early 4Q2012
2g.	<b>Equipment Procurement</b>	75	Released RFP for optical equipment and RFB for DC power system hardware and received responses. Will complete evaluations and award in early 4Q2012.
2h.	<b>Network Build (all components - owned, leased, IRU, etc)</b>	86	We met our planned 3Q2011 baseline but are behind our 1Q2012 due to delayed EA and unanticipated road construction plan changes and delays completing the MUFN Consortium agreement. Will catch up to baseline in 4Q2012.
2i.	<b>Equipment Deployment</b>	0	We expected to immediately deploy "North ring" but delayed due to network assessment meetings with CAIs and resulting surprise in demand. Redesigning optical system now will be installed in 4Q2012 deployment to catch up to baseline. Will not catch up to final 100% baseline until 4Q2012 as Monona Drive service area was delayed by 1yr due to road construction (orig. deployment was 1Q2012).
2j.	<b>Network Testing</b>	86	Tested completed laterals and backbone segments in 3Q2011. We will not catch up to baseline until 4Q2012 due to route changes and road construction delays in Monona Dr service area. Road construction in E. Washington Ave and University Ave Service Areas is ending in late Oct which will allow us to complete 3 CAI laterals and backbone in those service areas.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2k.	Other (please specify):	0	N/A

**3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).**

Need final approval of Monona Drive and Mineral Point Rd route change requests in order to complete construction in 4Q2012 before winter hits in WI. Also, we continue working with MG&E on a license agreement to use poles for the planned route change in the Monona Drive service area. This process has been slowed due to personnel changes at MG&E and we are expediting so we are ready once the anticipated route change approval is received. In addition, we ran into some delays gaining final internal approvals to issue an RFP for optical hardware. This delayed us approximately 2.5 weeks from issuing the bid by Labor Day. Finally, after several iterations and delays with certain THPOs and the SHPO, we submitted a phase 4 route change request to NTIA.

**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	48	We are behind our baseline due to delays with the EA and road construction which has delayed our FULL completion of Phase 1 (E. Washington Ave) and Phase 2 (Mineral Point Rd) until 4Q2012. In addition, road construction changes in the Monona Drive (phase 3) service area also delayed our ability to finish this area until 4Q2012 when we catch up to our 4Q2011 baseline.
New network miles leased	0	We were unable to complete a fiber agreement to lease 11 miles of fiber though we have a verbal agreement with UW Hospital & Clinics and are developing a written agreement. We anticipate having this completed in 4Q2012 after we complete the MUFN consortium agreement. The UWHC agreement will be between the MUFN consortium and UWHC rather than UW-Madison and UWHC which is the delay.
Existing network miles upgraded	0	N/A
Existing network miles leased	20	20 miles is the total of the Wisconsin Department Of Transportation fiber path leased at the beginning of the project.
Number of miles of new fiber (aerial or underground)	48	We are behind our baseline 57 miles due to delays with the EA. We are at 2Q2011. MUFN will not catch up to our 4Q2011 baseline until 4Q2012 due to weather issues (we began Monona Dr service area construction 4/25/2012).
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	96	We are under our planned 104 in 2Q2012 due to a delay in obtaining our EA FONSI which pushed the project back 1 yr. Also, we have 5 CAIs (also interconnect points) that were requested be dropped from the project due to budget cuts. We expected to complete Monona Drive in 4Q2012 and hit 99 interconnection points in early Dec 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	2
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	6

Indicators	
Average term of signed agreements (in quarters)	50

**5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:**  
 Citywide d/b/a Mad City Broadband, Wisconsin Independent Network (aka WINS)

**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:**  
 MUFN wholesale services offered by the project include point-to-point dark fiber and point-to-point wavelength services (where fiber IRUs permit). See attached document (BTOP-MUFN-PricingPlan.pdf)

**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).**  
 The City of Madison in collaboration with UW and Citywide d/b/a Mad City Broadband will operate the network together. UW and the City have formalized and finalized the relationships. Mad City Broadband's contact information: 301 N. Broom St., Madison, WI 53703, Andy Hoyos 608-320-2000; UW-Madison's contact information: Pat Christian, 1210 W. Dayton St., Madison, WI 53706, 608-265-9699.

**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	Below baseline projection of 2 due to delays in fiber installation which was delayed by delay in obtaining an EA FONSI
	Providers with signed agreements receiving improved access	0	On target with the baseline projections
	Providers with signed agreements receiving access to dark fiber	2	City of Madison signed agreement with WINS in early 3Q2012
	Please identify the speed tiers that are available and the number of subscribers for each	0	Dark fiber; users can pick their own baseband speed/signaling type (i.e. ethernet) or light fiber via wave-division multiplexing
Community Anchor Institutions (including Government institutions)	Total subscribers served	80	We will not reach 4Q2011 baseline until near end of project (4Q2012) due to Monona Drive PFSA delays (connecting laterals in 3Q2012 and 4Q2012). Also finishing phase 1 (1 location) and phase 2 (2 locations) work in mid-4Q2012 as road construction is completed in these areas.
	Subscribers receiving new access	11	We will not meet our initial baseline of 14 new access subscribers until 4Q2012 due to road construction in the Monona Drive Service Area.
	Subscribers receiving improved access	69	Met 3Q2011 baseline metric but will not meet 4Q2011 metric until 4Q2012. We will not meet our 4Q2011 (84) baseline of improved access subscribers due to 5 CAIs asking MUFN to drop laterals to their facilities. Will meet 79 improved access subscribers in 4Q2012.
	Please identify the speed tiers that are available and the number or subscribers for each	0	MUFN is a dark fiber project - most subscribers lighting dark fiber at minimum 1Gbps if not 10Gbps.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A

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	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	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	N/A

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

N/A

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

8b. If so, please describe the changes (300 words or less).

N/A

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
DaneNet - Home Care United	Monona Dr	CAI	No	Home Care United will use this connection for administrative functions and will experiment with a telemedicine application to remotely monitor assistive care patients in their homes.
Madison Metropolitan School District (MMSD) - LaFollette High School	Monona Dr	CAI	Yes	Madison Metro SD elementary school will use 1Gbps link for voice, video and data services (Internet, private network)
MadisonCI - Olbrich Gardens	Monona Dr	CAI	Yes	City of Madison provides cultural and learning enrichment (remote field trips) from this facility. Upgrade to 1Gbps link is used for training of employees, remote field trips, online monitoring of special exhibits and general Internet connectivity for location staff.
Monona Grove School District - Maywood School	Monona Dr	CAI	Yes	Monona Grove SD elementary school will use 1Gbps link for voice, video and data services (Internet, private network)
Monona Grove School District - Nichols School	Monona Dr	CAI	Yes	Monona Grove SD elementary school will use 1Gbps link for voice, video and data services (Internet, private network)
Monona Grove School District - Winnequah School	Monona Dr	CAI	Yes	Monona Grove SD elementary school will use 1Gbps link for voice, video and data services (Internet, private network)

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
UW-Health - Monona Clinic	Monona Dr	CAI	Yes	UW-Health will utilize 1Gbps link for voice, video and data services (e.g. Internet, eHealth record systems)

**Project Indicators (Next Quarter)**

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

MUFN expects to complete procurement, ordering and installation of DC power and optical network hardware based on the 8/25/12 approved rebudget request. We also expect to finish all remaining fiber construction including Monona Dr, E. Washington Ave & University Ave service areas. This includes connecting the remaining 9 community anchor institutions for a total of 91 and 8.3 miles for a project total of 56.3 miles. Finally, we expect to complete the MUFN consortium agreement.

**2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).**

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	99	Expect to have all fiber and network equipment installation completed by end of 4Q2012. Some invoicing and project closeout work will occur in January 2013.
2b.	Environmental Assessment	100	N/A
2c.	Network Design	100	N/A
2d.	Rights of Way	100	Anticipate phase 2 (Watts Rd) and phase 3 (Monona Dr) route change approval
2e.	Construction Permits and Other Approvals	100	Anticipate approvals from NTIA
2f.	Site Preparation	100	Expect completion in early November
2g.	Equipment Procurement	100	Will be done with procurements for optical hardware and DC power systems in early 4Q2012
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Expect to finalize UWHC fiber lease once consortium agreement is completed and complete all fiber construction
2i.	Equipment Deployment	100	Expect all DC power and optical equipment installed in 4Q2012
2j.	Network Testing	100	Expect to complete in 4Q2012
2k.	Other (please specify):	0	N/A

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

MUFN continues to work with MG&E on a license agreement to use poles for the planned route change in the Monona Drive service area. This process has been slowed due to personnel changes at MG&E and we are expediting so we are ready once the anticipated route change approval is received. Also, MUFN requests expedient approval of a submitted phase 4 route change request in order to ensure installation can occur in 4Q2012.

**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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$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	\$339,821	\$0	\$339,821	\$169,488	\$0	\$169,488	\$260,000	\$0	\$260,000
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$10,000	\$0	\$10,000	\$0	\$0	\$0	\$10,000	\$0	\$10,000
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$6,834,082	\$3,753,242	\$3,080,840	\$5,760,535	\$3,548,833	\$2,211,702	\$6,834,082	\$3,753,242	\$3,080,840
j. Equipment	\$1,625,712	\$0	\$1,625,712	\$0	\$0	\$0	\$1,625,712	\$0	\$1,625,712
k. Miscellaneous	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$50,000	\$0	\$50,000
<b>l. SUBTOTAL (add a through k)</b>	<b>\$8,859,615</b>	<b>\$3,753,242</b>	<b>\$5,106,373</b>	<b>\$5,930,023</b>	<b>\$3,548,833</b>	<b>\$2,381,190</b>	<b>\$8,779,794</b>	<b>\$3,753,242</b>	<b>\$5,026,552</b>
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	<b>\$8,859,615</b>	<b>\$3,753,242</b>	<b>\$5,106,373</b>	<b>\$5,930,023</b>	<b>\$3,548,833</b>	<b>\$2,381,190</b>	<b>\$8,779,794</b>	<b>\$3,753,242</b>	<b>\$5,026,552</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: \$298,000      b. Program Income to Date: \$0