AWARD NUMBER: NT10BIX5570070

DATE: 05/23/2014

OMB CONTROL NUMBER: 0660-0037 EXPIRATION DATE: 6/30/2015

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS								
General Information								
Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identific	cation Numb	er	3. DUNS Number				
Department of Commerce, National Telecommunications and Information Administration	NT10BIX557007	70		147368641				
4. Recipient Organization								
Massachusetts Technology Park 75 North Drive , Westborough, MA 01581-3335								
5. Current Reporting Period End Date (MM/DD/YYY	Υ)	6. Is this th	ne last Repo	rt of the Award Period?				
09-30-2013				○ Yes • No				
7. Certification: I certify to the best of my knowledg purposes set forth in the award documents.	e and belief that th	nis report is	correct and	complete for performance of activities for the				
7a. Typed or Printed Name and Title of Certifying O	fficial	-	7c. Telepho	ne (area code, number and extension)				
		;	7d. Email Ad	ddress				
7b. Signature of Certifying Official		-	7o Doto Bor	port Submitted (MM/DD/YYYY):				
76. Signature of Certifying Official		ľ	re. Date Kep	port Submitted (www.bb/1111):				
		'						

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Project Indicators (This Quarter)

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

MassBroadband 123 accomplishments for the quarter ending September 30th, 2013:

Completion of 32 (of 958) new miles and 0 (of 229) new leased miles (for a total of 1187 miles); 307 (of 1080) new CAIs and 1 (of 157) improved CAIs (for a total of 1237 CAIs).

Make Ready and Licensing

- -Received 193 Verizon pole licenses for a total of 32,513 (99% complete).
- -Received 49 electric utility pole licenses for a total of 30,202 (99% complete).
- -Received 1 mile of conduit licenses for a total of 42 miles (100% complete)

Network Design and Construction

- -Installed 27 miles of messenger strand for a total of 880 miles for the project (99% complete).
- -Installed 91 miles of aerial fiber optic cable for a total of 990 cable miles (including slack and sag) for the project (99% complete).
- -Installed 12,092 feet of conduit for a total of 47,309 feet for the project (98% complete).
- -Completed 38 miles of IRU fiber (100% complete)
- -Completed 56 Community Anchor Institution site installations for a total of 786 locations for the project (99% complete).
- -Completed 319 Community Anchor Institution fiber terminations/testing for a total of 1080 for the project (71% complete).
- -Completed 5 Point of Interconnection and collocation site installations for a total of 27 to date (65% complete).

Network Testing and Turnover

- -Completed turnover of 2 Points of Interconnection to Network Operator (26% complete).
- -Completed turnover of 3 network segment to Network Operator (10% complete).
- -Completed turnover of 80 Community Anchor Institutions to Network Operator (6% complete).

Sustainability

Executed 3 additional connecting agreements with broadband wholesalers or last mile providers for a total of 17

Jobs Created or Retained

-The total number of jobs created or retained during the quarter was 67.25.

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	100	In this section, we are calculating Percentage Complete with reference to the approved NTIA budget. Actual Costs are now 119% of the approved budget. MassTech has secured additional non-federal funds from the Commonwealth of Massachusetts to cover those amounts that exceed the approved NTIA budget. In comparison to the new project budget, 95% of the budget has been expended.
2b.	Environmental Assessment	100	Compliance requirements with environmental mitigation included in Design-Build RFP and the Owner's Project Manager will oversee work. Complete and actual costs are 159% of baseline budget.
2c.	Network Design	100	Some costs included in Network Build are now categorized under Network Design. High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 258% of baseline budget.
2d.	Rights of Way	100	Pole survey work and make ready application costs are complete. Actual costs are 132% of baseline budget.
2e.	Construction Permits and Other Approvals	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 139% of the baseline budget.
2f.	Site Preparation	100	Although some of these costs have been allocated to other categories, actual costs are higher than budgeted. Actual costs are 101% of the baseline budget. Site preparation is essentially complete.

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	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2g	Equipment Procurement	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 135% of the baseline budget.
2h	Network Build (all components - owned, leased, IRU, etc)	91	Behind on budgeted expenditures by 9%; some costs included in the baseline report under this category are being captured under Network Design.
2i	Equipment Deployment	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 334% of the baseline budget.
2j	Network Testing	100	High costs offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 149% of the baseline budget.
2k	Other (please specify):	100	Costs included in this category are: -Federal Compliance Staff -BTOP Non-Construction Staffing -Application and Post Application Submission Costs included in approved budget -Staff, Consulting, and legal costs Costs will be offset by additional matching funds from the Commonwealth of Massachusetts; Actual costs are 129% of the baseline budget.

^{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).

This past quarter we have begun to wind down construction activities.

Our challenges now are completing fiber and CAI testing and final review of test results and documentation.

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	931	Behind on baseline projection by 45 miles due to slower-than- expected make ready completion and previous construction holds. Note: Updated projections documented in an upcoming AAR shift the expected total miles deployed to 958.
New network miles leased	229	Behind on baseline projection by 78 miles. Lease miles reduced from 307 to 192.5 per approved AAR due to switch to all dark fiber IRUs. End of project new leased miles are expected to be 229.
Existing network miles upgraded	57	Ahead on mileage projection baseline by 2 miles. Original proposal included in-kind contribution of 55 miles of fiber along I-91. Upon consultation with NTIA it was determined that these miles should not be included, resulting in a reduction of total miles by 55. End of project upgraded miles are expected to be 0.
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	1,160	Behind on baseline projections by 121 miles due to IRU reduction of 78 miles, route changes and remaining fiber to be deployed of 45 miles, and 2 miles of new fiber reclassified as existing upgraded. The 1,124 miles do not include existing upgraded mileage. End of project total miles are expected to be 1,187.

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Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	27	Ahead of project baseline by 5. The target number of POIs has been changed to 41 due to the addition of POIs for connections to municipal IRUs and reclassification of some locations from CAI to POI. MassTech has completed the new connection at Point of Interconnections for Becket, Belchertown, Charlemont, Chesterfield, Great Barrington, Hinsdale, Lee, New Braintree, North Adams, Northampton, Orange, Pittsfield, Plainfield, Russell, Savoy, Sandisfield, Sturbridge, Westfield, Richmond Telephone, Westfield Gas and Electric A-End, Westfield Gas and Electric Z-End, WG&E Operations Center, Holyoke Gas and Electric Splice Enclosure, Town of Chicopee East St. Meet Point, Town of Chicopee Center St. Meet Point, Town of South Hadley Splice Enclosure, and SHELD Stoney Brook Facility.

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	17
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	2
Average term of signed agreements (in quarters)	76

- 5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:
- -Axia Networks, USA
- -Massachusetts Information Technology Division (ITD)
- -Crocker Communications
- -FTG Technologies
- Center for Education Leadership (CELT)
- -Access Plus
- -Community WISP, Inc.
- -Streamline Networks
- -Cornerstone Communications
- -Holyoke Gas & Electric
- -MECnet
- -Ayacht Technology Solutions
- -Warwick Broadband Service
- -Berkshire Unified Phone
- -WiredWest
- -Lightower
- -Windstream

NOTE: The average term of signed agreements in 5a reflects the average length of fixed-term contracts.

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:

Wholesale services currently being provided are:

- -Ethernet-100 Service Ethernet-based bandwidth services that provide up to 100% of the line rate speed of the physical connection. It services a single User Network Interface (UNI) and a single Virtual Private Network membership (VPN).
- -NNI (Network-to-Network Interface Service) Allows customers to access "off-net" services determined by the customer network.
- -Gigabit Ethernet Boston Transport Service Provides connectivity from either network Regional Gateway to the Boston Global Gateways at the following speeds: 20 Mbps increments, 1, 2.5, & 5Gbps.
- -Broadband Service Provides Ethernet-based bandwidth service at the following rates: 5, 10, 20 & 50Mbps.
- -Wavelength Service Provides connectivity from a chosen location to a Regional Gateway or from a Regional Gateway to a Global Gateway. This is a wavelength-based service and is available at the following rates: 2.5 & 10Gbps

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The speed tiers available across the variety of service offerings are; 5, 10, 20, 50, & 100 Mbps and 1, 2.5, 5 & 10 Gbps. Note that the Boston Transport service includes an offering that is scalable in 20Mbps increments.

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).

MassTech has hired Axia NGNetworks USA as a contractor to run the entirety of the MassBroadband 123 network. They will also assist with equipment specifications and network and fiber design during the construction period. Tim Scott, Vice President, may be contacted at Tim.Scott@axia.com

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	17	Ahead on baseline by 4; interest of service providers has exceeded expectations held at the time of grant submission.
	Providers with signed agreements receiving improved access	0	MassTech interpreted the baseline differently and is now categorizing all signed agreements as "receiving new access" and does not expect to categorize any agreements as "receiving improved access".
	Providers with signed agreements receiving access to dark fiber	0	Per NTIA guidance, MassTech now lists service providers who receive access to both lit and dark services on the primary method they will use to obtain services. MassTech now anticipates that all service providers will primarily receive lit services, causing the value to remain at zero.
	Please identify the speed tiers that are available and the number of subscribers for each	9	1Gbps-(6), 10Gbps-(1) Note: The counts above represent active services being provided to paying wholesalers or service providers.
Community Anchor Institutions (including Government institutions)	Total subscribers served	786	Behind on baseline by 602, MassTech considered CAI connections as occurring upon installation of systems, but is now reporting based on when Community Anchor Institutions are spliced to its serving POI. MassTech anticipates 1237 CAIs receiving service at the end of the project.
	Subscribers receiving new access	785	Behind on baseline by 475, MassTech considered CAI connections as occurring upon installation of systems, but is now reporting based on when Community Anchor Institutions are spliced to its serving POI. MassTech anticipates 1080 CAIs receiving "new access" at the end of the project.
	Subscribers receiving improved access	1	Behind on baseline by 127, MassTech considered CAI connections as occurring upon installation of systems, but is now reporting based on when Community Anchor Institutions are spliced to its serving POI. MassTech anticipates 157 CAIs receiving "improved access" at the end of the project.
	Please identify the speed tiers that are available and the number or subscribers for each	9	5Mbps-(14), 10Mbps-(7), 20Mbps-(2*), 50Mbps-(1), 100Mbps-(3), 1Gbps-(3), 10Gbps-(1). Note: The counts above represent active services being provided to paying CAI customers *-Includes 1 incremental "to scale" Boston Transport service customer whose total provided bandwidth is 300Mbps.
Residential / Households	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
Businesses	Entities passed	0	N/A

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Subscriber Type		Access Type		Total		Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)		
	Total subscri	bers served		0	1	N/A		
	Subscribers r	eceiving new acce	ess	0	ı	N/A		
	Subscribers r	eceiving improved	d access	0	1	N/A		
		y the speed tiers to the number of or each	that are	0	1	N/A		
	% discount off urity. Our stat	of wholesale rate te partners contrib	es to our : buted ma	state part	ners,	, Information Technology Division and Executive Office of the MassBroadband 123 grant application and they have		
8a. Have your network	management p	oractices changed	over the	last quarto	er?	○ Yes ● No		
8b. If so, please describ N/A	e the changes	s (300 words or les	ss).					
connected to your netw cumulatively). Also ind	lease provide ork as a result icate whether	of BTOP funds. F	Figures shis current	hould be retly providi	eport	nchor institutions (including Government institutions) ted for the most recent reporting quarter only (NOT roadband service to the anchor institution. Finally, provide a unded 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)		Narra	ative description of how anchor institutions are using BTOP- funded infrastructure		
See separate addendum	See separate addendum	See separate addendum	See se adder			Addendum attached separately		
			•					
Project Indicators (Nex	t Quarter)							
Please describe sign Permitting Receive final pole lice		-		for compl	etion	during the next quarter (600 words or less).		
Construction -Complete installation -Complete fiber termina -Complete fiber installa	ations at Com	munity Anchor In	stitution	sites.		on sites. De performed with release of latest AAR		
-Complete acceptance -Complete acceptance	Acceptance Testing -Complete acceptance testing of Points of Interconnection sites -Complete acceptance testing of Community Anchor Institutions -Complete acceptance testing of additional fiber segments -Complete turnover of additional network segments to Network Operator							
Sustainability -Continue marketing in -Conduct Community (eting Agree	emen	nts as segments become operational		

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

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	100	In this section, we are calculating Percent Complete with reference to the original NTIA budget. Costs are now projected to be 124% of the original budget, and MassTech has secured additional non-federal funds from the Commonwealth of Massachusetts to cover those amounts that exceed the original NTIA budget. Against new budget with extra funds, expected to be at 99% complete
2b.	Environmental Assessment	100	Environmental Assessment completed. No further expenditures planned. Compliance requirements with environmental mitigation included in the Design Build Request For Proposal and the Owner's Project Manager will oversee work
2c.	Network Design	100	Costs projected to be 259% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2d.	Rights of Way	100	Costs projected to be 133% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2e.	Construction Permits and Other Approvals	100	Costs projected to be 143% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2f.	Site Preparation	100	Site Preparation expected to be completed. Actual projected costs will be 101% of the baseline budget.
2g.	Equipment Procurement	100	Costs projected to be 145% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2h.	Network Build (all components - owned, leased, IRU, etc.)	96	Behind on projected expenditures by 4% due to (a) some projected costs accounted for under other categories, (b) schedule recovery from the project delays
2i.	Equipment Deployment	100	Equipment Deployment expected to be completed. Actual costs projected to be 334% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2j.	Network Testing	100	Costs projected to be 153% of the baseline budget and are funded with additional funds from the Commonwealth of Massachusetts
2k.	Other (please specify):	100	No significant expenditures planned next quarter which aligns with PPR projections and baseline. Costs include: • Federal Compliance Staff • BTOP Non-Construction Staffing • Application and Post Application Submission Costs • Staff, Consulting and Legal Costs with procurements Costs are projected to be 136% of the baseline budget

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).

Since the project is now nearing completion, the challenge going forward is to ensure thorough review and quality of the documentation for the network and clean-up of punch list items to ensure operational efficiency.

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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.

В		from Project on nd of Current 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	\$1,871,196	\$598,342	\$1,272,854	\$2,603,564	\$982,952	\$1,620,612	\$2,775,505	\$1,154,893	\$1,620,612	
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	\$9,317,022	\$2,979,253	\$6,337,769	\$16,161,593	\$6,807,335	\$9,354,258	\$17,227,926	\$7,873,668	\$9,354,258	
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
f. Project inspection fees	\$2,218,560	\$709,417	\$1,509,143	\$898,570	\$613,981	\$284,589	\$1,241,906	\$957,317	\$284,589	
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
i. Construction	\$51,193,858	\$19,660,308	\$31,533,549	\$55,084,769	\$26,746,655	\$28,338,114	\$56,085,466	\$27,747,352	\$28,338,114	
j. Equipment	\$7,044,808	\$2,252,680	\$4,792,129	\$10,460,006	\$4,612,135	\$5,847,871	\$11,159,892	\$5,312,021	\$5,847,871	
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
I. SUBTOTAL (add a through k) m. Contingencies	\$71,645,444	\$26,200,000	\$45,445,444	\$85,208,502	\$39,763,058	\$45,445,444	\$88,490,695	\$43,045,251	\$45,445,444	
n. TOTALS (sum of I and m)	\$71,645,444	\$26,200,000	\$45,445,444	\$85,208,502	\$39,763,058	\$45,445,444	\$88,490,695	\$43,045,251	\$45,445,444	

^{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: \$603,479