

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570030	3. DUNS Number 029980307
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4. Recipient Organization De Kalb, County of (Inc.) 200 N. Main Street, Ste. 120, Sycamore, IL 60178-1431

5. Current Reporting Period End Date (MM/DD/YYYY) 06-30-2013	6. Is this the last Report of the Award Period? <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.

7a. Typed or Printed Name and Title of Certifying Official Ed Harvey	7c. Telephone (area code, number and extension) 8158957125
	7d. Email Address eharvey@dekalbcounty.org

7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 08-06-2013
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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 All approved build was completed in 2012-Q4. No additional build was completed in Q2-13. Environmental clearance of prospective route changes late in this quarter resulted in adding 1.88 miles of duct and fiber contributed from DeKalb Fiber Optics ("Islands" Fiber) to network miles. Total network as of the end of Q2-13 is 141.83 miles. Additional build authorized by prospective route changes will add an additional 1.27 miles of constructed network. Total project network is expected to be 143.11 miles. One prospective route change addition (Shabbona Library) will require a Illinois Department of Transportation permit. That permit was applied for immediately after notification that environmental clearance was received but the permit has not been issued as of the end of the quarter. Otherwise, all required rights of way and municipal utility agreements have been acquired for the project. Northern Illinois University Broadband Development Group continues to provide engineering support for those Community Anchor Institutions not yet connected to the network. Environmental clearance for prospective route changes late in the quarter allowed one additional Community Anchor to be connected in the quarter. Total Community Anchors connected are 71 of an expected 78 total. All backbone equipment was lit previously. Completed deployment of 911 fiber back haul equipment. Employed 1.38 full time equivalent individuals, primarily in the administration of the project.

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	93	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use agreement and locating, maintenance and repair agreements with DeKalb Fiber Optic, LLC in place. Since January, 2011, project has been moving well showing completion percentages of 20, 29, 47, 62, 70, 75, 83, 92 and 93% for the previous nine quarters. Since December, 2012, when the approved route was completed, there was little progress as we awaited approval of pending route changes. All route changes are now approved and we are building the remainder of the network.
2b.	Environmental Assessment	100	Previously completed for original project scope. Additional environmental assessment work was completed, submitted and approved for retroactive and prospective route changes.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	95	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. All rights-of-way and municipal utility agreement issues needed for the project are now resolved. All in-kind duct and fiber provided by DeKalb Fiber Optics has been received.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. Baseline predicted 100% at this point.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	98	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor premise equipment has been received and paid. Backbone equipment, fiber back haul equipment, wireless access points and fire walls for libraries have been received and paid. 10Gig "ring" modules have been received and paid. The only remaining equipment is what may be needed to connect the locations authorized by the prospective route changes. Expect to be completed in 2013-Q3, (19 additional months from baseline).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2h.	Network Build (all components - owned, leased, IRU, etc)	99	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. All leased fiber is 100 complete. All duct provided by DeKalb Fiber Optics has been received and overridden with fiber. All approved network was completed in December, 2012 (18 additional months from baseline). Additional 1.27 miles of duct and fiber will be constructed as authorized by prospective route changes.
2i.	Equipment Deployment	98	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor equipment deployment started in January, 2012 and is complete. Additional locations authorized by the prospective route changes are now being deployed. Backbone equipment deployment started in January, 2012 and all five node locations are now deployed. Fiber back haul equipment deployment was completed in 2013-Q2. Equipment deployment for all approved locations will be complete in 2013-Q3 (22 additional months from baseline).
2j.	Network Testing	99	Baseline predicted 100%.The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Testing was completed for all fiber on the approved network in December, 2012. No new fiber was constructed in 2013-Q2. Testing for 1.28 miles of additional fiber will need to be completed when that additional fiber is installed which is expected to be completed early in 2013-Q3.
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).

Received environmental clearance for prospective route changes late in 2013-Q2. This will allow us to complete the network as intended within budget and schedule parameters.

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	129	Baseline predicted 130. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Approved network was completed in December, 2012 (thirteen additional months from baseline).
New network miles leased	12	Acquired 12 strands over 12 miles from Northern Illinois University. Completes leased fiber in project.
Existing network miles upgraded	0	N/A
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	130	Total approved for the project, including prospective route changes upon EA clearance.
Number of new wireless links	0	N/A

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	311	Baseline predicted 366 total interconnection points. Added 11 interconnection points in 2013-Q2 as a result of DeKalb Fiber Optics providing "islands" duct and fiber as an in-kind to the project. Total reported here is current number installed as of end of 2013-Q2 . Additional interconnection points will be added when prospective route changes are constructed.

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	3
Average term of signed agreements (in quarters)	14

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: DeKalb County has an agreement in place with DeKalb Fiber Optics for the construction, operation and economic expansion of the system. DeKalb Fiber Optics has one signed agreement with TBC Net. Recipient is not a party to this agreement. DeKalb County has an agreement with Syndeo Networks, Inc. to provide last mile services on the network. DeKalb County expects three additional last mile provider agreements by the end of the award period. Efforts to secure additional signed agreements include providing draft agreements to all three providers, responding to providers' concerns and questions and obtaining reviews of draft agreements from County staff and third party review. All three expected agreements are in final stages of approval and are expected to be finalized early in 2013-Q3.

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:

Provided by DeKalb Fiber Optics to Commercial Customers:

- 100 Mb VLAN: \$300/ month
- 1 Gb VLAN: \$600/ month
- Wholesale Bandwidth: \$20/ Mb/ Month
- Consumer Access: \$90/ Month for best effort up to 1Gbps (averaging 300 Mbps).
- Dark Fiber: \$750/ strand/ mile/ year

Provided by DeKalb County to Community Anchors:

Full participant: Dark Fiber, 1Gb transport to Illinois Century Network: \$7,000/ location/ year
 Subscriber Services: Transport to ISP: 100 Mb: \$2,800/ year; 50 Mb (shared): \$1,050/ year

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).

Fiber Physical Layer: DeKalb Fiber Optics, LLC, vendor, Dan Halverson, (dan@admin.tbc.net). DeKalb Fiber Optics is operating 68 fibers for economic development as well as providing locating, maintenance and repair functions for all 144 fibers being constructed. Electronics, network operations and community anchor engineering: Northern Illinois University, vendor, Herb Kuryliw, hkuryliw@niu.edu.

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	None; No providers receiving new access are anticipated.
	Providers with signed agreements receiving improved access	1	Syndeo Networks, Inc. We are expecting three additional provider agreements to be completed 2013-Q3. All would be receiving improved access.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Providers with signed agreements receiving access to dark fiber	1	DeKalb Fiber Optics, LLC. None of the providers with which we are negotiating agreements are expected to receive access to dark fiber.
	Please identify the speed tiers that are available and the number of subscribers for each	2	All connections provided by DeKalb Fiber Optics, LLC are expected to be over a 1Gb interface. Syndeo Networks, Inc. is offering speeds of up to 100Gbps to the internet.
Community Anchor Institutions (including Government institutions)	Total subscribers served	71	Baseline predicted 111; 78 are currently projected. One new connection in 2013-Q2.
	Subscribers receiving new access	3	No additional new connections are expected for the project.
	Subscribers receiving improved access	68	Baseline predicted 41. Total projected for the project is 75
	Please identify the speed tiers that are available and the number of subscribers for each	71	49@ 1Gb; 4@50Mb; 2@100Mb; 5 dark fiber only and 11 are not subscribers at this time.
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
	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).
Project is providing fiber backhaul for DeKalb County E-911 system and co-location in four telephone central offices.

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	Narrative description of how anchor institutions are using BTOP-funded infrastructure

			institution? (Yes / No)	
Sandwich Public Library	Sandwich	Public Library	No	Connection to ISP and Library Cloud

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
 Complete build of 1.27 network miles to serve seven remaining Community Anchor Institutions, test new fiber, deploy equipment and finalize those connections; finalize three remaining provider agreements.

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	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All infrastructure and connections for the project will be completed by end of next quarter.
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed.
2d.	Rights of Way	100	Baseline predicted 100%. All right of way costs are paid; all in-kind fiber and duct provided by DeKalb Fiber Optics LLC has been received.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All construction permits will be received and expenses for construction permits will be paid by the end of the next quarter,
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	100	Baseline predicted 100%. All major equipment that has been ordered has been received and paid. Some miscellaneous equipment needed to connect remaining locations will be ordered, received and paid by the end of the next quarter.
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	There remains a small amount of network build (prospective route changes) to be completed in 2013-Q3. Work on that additional build was started in 2012-Q2 and will be completed by the end of the next quarter. All network to be acquired by bill of sale or IRU has been completed.
2i.	Equipment Deployment	100	Six additional locations remain to be deployed. Those will be completed by the end in 2013-Q3. All other equipment required for the project has been deployed.
2j.	Network Testing	100	Testing for 1.28 miles of additional fiber to serve locations authorized by prospective route changes will be completed in 2013-Q3.
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).
 None are anticipated. We expect to complete all work on the network by the end of the next quarter.

