

RECIPIENT NAME:De Kalb, County of (Inc.)

AWARD NUMBER: NT10BIX5570030

DATE: 02/17/2012

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

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
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) 12-31-2011	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No	
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): 02-17-2012	

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 Installed 116,936 feet (22.15 miles) of duct and 160,801 feet (30.46 miles) of fiber in Q8, taking the percentage complete for duct to 84% and percentage complete for fiber to 65%. Continued on-site engineering for community anchor institutions. All potential anchors have been contacted (some more than once) and the connection agreement negotiation process continues. Continued the Rights of Way (ROW) acquisition process in southern DeKalb and northern La Salle Counties. Continued the municipal utility agreement negotiation process. Obtained one additional utility agreement (Waterman). Submitted route change request to NTIA in December, 2011. Completed rail and interstate crossing permit process. Completed 13 additional connections (total now 24). Received and started configuration of backbone equipment. Ordered and started deployment of fiber back haul equipment for E-911 system. Completed purchase of fiber strands from Northern Illinois University. Completed acquisition of duct from DeKalb Fiber Optics, LLC (in-kind). Tested installed fiber paths in completed sections totalling 52,000 feet. Employed 14.43 full time equivalent individuals in the construction and administration of the project. Project is on-schedule to meet substantial and final completion deadlines.

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	62	Baseline predicted 98% complete at this point. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Since January, 2011, the project has been moving ahead well showing completion percentages of 20, 29, 47 and 62% respectively for the previous four quarters. The overall budget for the project is within parameters.
2b.	Environmental Assessment	100	Previously completed. There was no budget for environmental assessment, therefore the \$89,500 cost of the assessment must be offset with savings in other areas. The costs for rail and pipeline crossings are less than anticipated and the cost of the assessment will be covered by savings in those areas.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	100	Baseline predicted 100% complete with rights of way at this point. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. In the south part of the route, the number of landowner and township row agreements is greater than anticipated, requiring additional time. Additional personnel and legal resources have been allocated to the row issue. Despite best efforts, the project had no alternative other than to request a route change around areas of unattainable row. This route change request was submitted to NTIA in December, 2011. Row permits are in-hand for all State and DeKalb County roads. Nine of 14 municipal utility agreements are approved and the remaining five are in active negotiation and/ or approval process. Two private row acquisitions need to be finalized. La Salle County row permits are in final approval stages. We estimate row approval will be 100% complete by April, 2012 (twelve additional months from baseline and four additional months from date of report). Row expenditures are expected to exceed budget due to payment for previously completed duct and fiber paid from this line item but budgeted elsewhere.
2e.	Construction Permits and Other Approvals	95	Baseline predicted 100%. All 18 rail crossing permits are in-hand. Four crossings remain to be completed in municipalities with which utility agreements are still being negotiated. Some inspection expenses remain to be paid as those crossings are made. One interstate crossing permit was received and the crossing made and paid for in Q4-11. No other permits are anticipated.
2f.	Site Preparation	0	N/A

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2g.	Equipment Procurement	21	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor premise equipment has been purchased, paid, and configuration is complete. Backbone equipment has been received, partially paid and configuration started. Fiber back haul equipment has been ordered, partially paid, and partially deployed. Remaining equipment to be procured consists of GPON, wireless access points and City of DeKalb downtown wireless, all of which are in active engineering design. Expect to be at 100% in Q11 (12 additional months).
2h.	Network Build (all components - owned, leased, IRU, etc)	70	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Duct is at 84% complete and fiber is at 65% complete. Acquired 144 strand miles of fiber from Northern Illinois University. Acquired 12.84 miles of duct space from DeKalb Fiber Optics and an in-kind contribution to the project. Acquired collocation space in four telephone company offices. We estimate the network will be complete in June, 2012 (twelve additional months from baseline and six additional months from date of report).
2i.	Equipment Deployment	5	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community Anchor equipment deployment is expected to commence in January, 2012 and continue into Q11. Network backbone equipment deployment will start in January, 2012 and continue into Q10. Deployment of the fiber back haul equipment was started in December, 2011 and will continue into April, 2012. Deployment of GPON, wireless access points and downtown wireless depends on procurement, but probably will take place in Q10 (May, 2012). All deployment is expected to be complete in Q11 (12 additional months).
2j.	Network Testing	8	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Areas of row acquisition challenges have prevented testing because a complete optical route was not available. Testing has now been completed on 52,000 feet of fiber from Kirkland to the south edge of Genoa.
2k.	Other (please specify): N/A	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).

The project was behind schedule early due to problems getting the indefeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Good progress has been made since 12/31/10 with project completion now at 62%. Production slowed from predictions because of row issues detailed above. Progress has been made in spite of row issues by contractor moving crews to areas of approved row access. Project is on schedule to meet the substantial and final completion requirements if row issues can be resolved.

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)

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	84	Baseline predicted 130. The project was behind schedule early due to problems getting the infeasible right to use and locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. The network build has been progressing well since 1/1/11. Expect to reach 130 miles in Q10. (nine additional months).
New network miles leased	0	N/A
Existing network miles upgraded	0	N/A
Existing network miles leased	12	Acquired 12 strands over 12 miles from Northern Illinois University. Completes leased fiber in project.
Number of miles of new fiber (aerial or underground)	84	Installed as of 12/31/11. Project total is 129.59 miles of new fiber.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	210	Baseline predicted 366 interconnection points at the end of Q8. Additional interconnection points are to be added as duct is completed.

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	4
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: One last mile agreement in place between DeKalb Fiber Optics and TBCNet. Recipient is not a party to this agreement so it has not been included in the indicators provided above.

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:
- 100Mb VLAN: \$300/month
- 1Gb VLAN: \$600/month
- Wholesale bandwidth: \$20/Mb/Month
- Consumer Access: \$90/month
- 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 and ISP: 100Mb- \$2,800/ year; 50Mb- \$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 is operating 68 fibers for economic development and providing locating, maintenance and repair functions for DeKalb County's 76 fibers.
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	N/A
	Providers with signed agreements receiving improved access	0	N/A
	Providers with signed agreements receiving access to dark fiber	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Community Anchor Institutions (including Government institutions)	Total subscribers served	24	Baseline predicted 111 at this point. Project total is expected to be 105 which will be reached in Q10
	Subscribers receiving new access	5	Baseline predicted 70 at this point. Project total is expected to be 30 which will be reached in Q10.
	Subscribers receiving improved access	19	Baseline predicted 41. Project total is expected to be 75 which will be reached in Q10
	Please identify the speed tiers that are available and the number of subscribers for each	24	21 @ 1Gb; and 3 @50 Mbps to internet.
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 will provide wifi and video surveillance for City of DeKalb downtown area, fiber back haul for DeKalb County E-911 system and collocation in four telephone company 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 institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Northern Illinois University Wellness and Literacy	DeKalb	Other Institutions of Higher Education	No	Connection to DATA Network
Genoa-Kingston High School	Genoa	Schools (K-12)	No	Connection to DATA Network, Education Cloud, ISP and dark fiber to District Schools
Genoa Middle School	Genoa	Schools (K-12)	No	Dark Fiber to School District Network Hub to access DATA Network, Education Cloud and ISP
Genoa Elementary School	Genoa	Schools (K-12)	No	Dark Fiber to School District Network Hub to access DATA Network, Education Cloud and ISP
Davenport Elementary School	Genoa	Schools (K-12)	No	Dark Fiber to School District Network Hub to access DATA Network, Education Cloud and ISP
Kingston Elementary	Genoa	Schools (K-12)	No	Dark Fiber to School District Network Hub to access DATA Network, Education Cloud and ISP
Hiawatha High School	Kirkland	Schools (K-12)	No	Connection to DATA Network, Education Cloud and ISP
Hiawatha Grade School	Kirkland	Schools (K-12)	No	Indirect Connection to DATA Network, Education Cloud and ISP
Kirkland Police Department	Kirkland	Public Safety	No	Connection to DATA Network and ISP
Genoa Public Library	Genoa	Libraries	No	Connection to DATA Network, Library Cloud and ISP
Genoa Police Department	Geboa	Public Safety	No	Connection to DATA Network, E-911 Fiber backhaul system and ISP
E-911 Radio Receiver	Genoa	Public Safety	No	E-911 Fiber Backhaul System and Future 911 System enhancements
Russell Woods Natural Resources Education Center	Genoa	Other Government Facilities	No	Connection to DATA network and future diverse path to remote County campuses and facilities

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
 Plan to install 50,000 additional feet (9.5 miles) of duct and 160,000 additional feet (30 miles) of fiber in next quarter making 114 total network miles deployed. Plan to make 45 additional connections next quarter making a total of 69 CAI connections. No additional leased network is anticipated for the project making the expected network miles leased 12 miles at the end of the next quarter. Last mile provider agreements are in discussions with providers but no signed agreements are expected in the next quarter. Plan to deploy backbone equipment in four telephone company collocation sites and into the network operations center at Northern Illinois University. Plan to deploy fiber back haul equipment. Plan to complete design for GPON, wireless access points and downtown wireless and bid and order equipment. We plan to obtain all row next quarter and intend to have 13 of 14 utility agreement in hand by the end of next quarter. We plan to have 25% of the system tested by the end of next quarter. In Q9, we will complete an independent verification of installed duct and fiber footage performed by a registered professional engineer.

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)

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	84	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Project has been moving well since 1/1/11 showing completion percentages for the last three four quarters of 20, 29, 47, and 62% respectively. The project will be substantially complete by 1/31/12.
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed.
2d.	Rights of Way	100	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Route change approval will allow row acquisition to proceed. We intend to acquire all row and 13 of 14 municipal utility agreements by the end of Q9. Expenditures in this line item will exceed budget due to payments for previously completed duct and fiber not budgeted here but properly paid from this line item. Some expenditures remain to be paid from this line item, primarily for rail crossing expenses.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Some rail crossing expenses remain to be paid as crossings are made in municipalities with which we are still negotiating utility agreements.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	70	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Expect to pay for backbone and fiber back haul equipment in Q9. Plan to bid and order City of DeKalb downtown wireless, public library access points and GPON equipment in Q9.
2h.	Network Build (all components - owned, leased, IRU, etc.)	90	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Plan to be 81% built in duct and fiber by end of Q9. All leases and IRU's are in place which adds 9% to the total network build completion.
2i.	Equipment Deployment	25	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC. Backbone equipment will be deployed as telephone central offices become available. Community anchor equipment will be deployed in north and central parts of route. E-911 equipment will be partially deployed.
2j.	Network Testing	25	Testing will be completed for another 22 miles of fiber from south of Genoa to the network operations center in DeKalb and in the DeKalb-Sycamore area.
2k.	Other (please specify): N/A	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).

Some of the utility agreements with municipalities have been more difficult to obtain than anticipated. We expect to get some resolved in Q9 but probably not all. We are only able to complete the build in these areas when the agreements are completed.

