

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

DATE: 08/21/2018

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 6/30/2015

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

NT10BIX5570158

3. DUNS Number

962696089

4. Recipient Organization

Los Angeles Regional Interoperable Communications System Authority 2525 Corporate PL Ste 200, Monterey Park, CA 91754-7672

5. Current Reporting Period End Date (MM/DD/YYYY)

06-30-2018

6. Is this the last Report of the Award Period?

Yes 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

NALANI WHATLEY
GRANTS ANALYST

7c. Telephone (area code, number and extension)

323-881-8186

7d. Email Address

NALANI.WHATLEY@JACOBS.COM

7b. Signature of Certifying Official

Nalani Whatley

7e. Date Report Submitted (MM/DD/YYYY):

08/21/18

Project Indicators (This Quarter)

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

Long Term Evolution (LTE) Round 1

As we move into spring of 2018 the agencies are beginning to experience the Public Safety Broadband Network (PSBN) and its benefits on a larger scale as more users are implemented. Now that all construction is complete, we shifted our focus to the operations and maintenance of the network. The network is comprised of a combination of permanent and deployable communication sites and provides coverage throughout the greater Los Angeles basin and the High Desert corridor.

At the end of the Quarter 2 and beginning of Quarter 3, 2018, the network will transition to AT&T at the close of the business agreement and approval of the asset transfer agreement from the National Telecommunications and Information Administration (NTIA). The LA-RICS PSBN has been operating a spectrum lease agreement with FirstNet since its inception. The lease agreement will also come to a close when the network fully transitions but will happen no later than June 30, 2018. Once the transition occurs, Los Angeles Regional Interoperable Communications System (LA-RICS) will no longer be operating the PSBN.

Network Monitoring

Currently all operations are monitored by the LA-RICS, County and Motorola Solutions Inc. (MSI) teams. At this time LA-RICS is currently managing the LTE Network from two different network operations center (NOC) locations to include Fire Command and Control Center (FCCF) and the LA-RICS office. The third NOC location at the Sheriff's Communication Center (SCC) is nearly complete. SCC is pending a final connection from the completed server room to all the workstations. This work is scheduled for completion in late July or early August 2018.

Network Optimization

The LA-RICS team performed detailed LTE PSBN drive testing in support of Cell on Wheels (COW) optimization and overall network optimization. In addition, these drive tests allowed the team to confirm potential problem areas identified in Key Performance Indicator (KPI) reports and characterize current coverage areas. The team also implemented parameter and antenna tilts to improve overall performance and ensure proper functioning of the network prior to handover to FirstNet/AT&T.

Operations

The Operations team, which consists of County of Los Angeles employees and contractors, are developing operational procedures, processes and Governance of Motorola operational maintenance and warranty services. LA-RICS is setting expectations for Motorola to provide operational and maintenance services in support of the PSBN.

Operations Governance

The LA-RICS Operations team is holding meetings two times a week to focus on the following:

1. Ensure PSBN operational performance
2. Ensure internal LA-RICS operational aspects are in place
3. Develop and Implement Policies
4. Govern Change Management

The weekly Operations meetings are scheduled as follows:

Every Tuesdays - Internal Operations Meeting: This internal meeting encompasses a pool of objectives formulated to address internal functional and resource structures, assignments, process and procedures as well as strategies to govern Motorola and work through their deficiencies. Included are progress reports on daily functions, change management and updates on assigned action items.

Every other Wednesday - Network Fault and Performance and Process Improvements, Policy and Governance: (Joint LA-RICS and Motorola meeting) This session provides updates and resolutions for Network deficiencies, trouble tickets including system alarms occurring throughout the Radio Access Network (RAN) as well as the Core. The meeting focuses on reviewing and examining all incidents identified during the past week that affect and determine Service Level Agreements (SLAs).

Special Events

There were no special events conducted during the Q2 of 2018.

Status of PSBN Agency Onboarding

LA Sheriff Department - 1,161 routers installed with 1,071 active on the network.

LA County Fire Department - 658 routers installed with 587 active on the network.

Other agencies that are also in the Onboarding program include Bell Police Department, Claremont Police Department, Covina Police Department, El Segundo Fire and Police Departments, Health Services/EMS, Inglewood Police Department, La Verne Fire and Police Departments, Long Beach Police Department, Sierra Madre Fire and Police Departments, Signal Hill Police Department and UCLA Health Department.

PSBN Onboarding is continuing to transition to PSBN sites working with AT&T to migrate the PSBN Core, Routers and VMLs (MSI vehicle modems) into FirstNet Nationwide Public Safety Broadband Network (NPSBN). These activities include planning for the installation of FirstNet AT&T backhaul circuit and Access Point Names (APN). This step is critical for the migration of users to FirstNet. Several device vendor meetings and workshops are underway to help determine the router transition.

Engagement with agencies who currently have test Demo Kits and routers will continue as well as technical coordination meetings to support the transition to FirstNet. LA-RICS will continue to work with the Los Angeles County Sheriff's Department and the County of Los Angeles Fire Department on the transition of devices into LA-RICS FirstNet/AT&T.

Long Term Evolution (LTE) Round 2

LA-RICS received formal approval of Objectives 1 and 2 from NTIA on June 28, 2018. Work restarted on PSBN Round 2 immediately, particularly for site identification and initial environmental. Work will continue to ramp up in Q3.

Outreach Reporting

Various meetings continued in the months of April and May with AT&T to further discuss technical and program management concerns, transition logistics as well as assignment and assumption agreement meetings for the migration of the PSBN to the NPSBN. Executive Director Edson and Administrative Deputy Orellana-Curtiss met with Los Angeles County Fire Chief Darryl Osby and Chief Dawna Lawrence regarding the LA-RICS Fiscal-Year Budget 2017-2018.

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	95	Awaiting completion of NOC at Sheriff's Communication Center (SCC)
2b.	Environmental Assessment	100	No construction activities occurred that required monitoring.
2c.	Network Design	100	Network design is complete. No change in the site configuration. All sites have both power and backhaul delivered (including all microwave paths) and have visibility to the core.
2d.	Rights of Way	100	Complete
2e.	Construction Permits and Other Approvals	100	Complete
2f.	Site Preparation	100	Complete
2g.	Equipment Procurement	100	Complete
2h.	Network Build (all components - owned, leased, IRU, etc)	100	Complete
2i.	Equipment Deployment	100	Complete
2j.	Network Testing	100	Complete
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).

The LTE Round 1 program has been completed and tested. All that remains to complete the program is the final connections at the SCC NOC. No further activities are scheduled at any sites or at the Core.

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	156	Includes all 15 point to point microwave links, including intermediate hops going to the non-LTE sites.

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

DATE: 08/21/2018

OMB CONTROL NUMBER: 0660-0037
EXPIRATION DATE: 12/31/2015

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)	
New network miles leased	0	No new network miles leased.	
Existing network miles upgraded	100	Calculates distance between nodes used on Los Angeles County and City of LA fiber.	
Existing network miles leased	494	Existing network miles leased from Time Warner Cable and AT&T to Los Angeles County Fire Command Control Facility.	
Number of miles of new fiber (aerial or underground)	0	Essentially less than a mile for site communication.	
Number of new wireless links	12	PSBN microwave links	
Number of new towers	30	There are currently 30 towers installed	
Number of new and/or upgraded interconnection points	0	N/A	
<p>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.</p> <p>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.</p>			
Indicators			
Number of signed agreements with broadband wholesalers or last mile providers			0
Number of agreements currently being negotiated with broadband wholesalers or last mile providers			0
Average term of signed agreements (in quarters)			0
<p>5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: N/A</p>			
<p>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: N/A</p>			
<p>5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this this third party operates (600 words or less). N/A</p>			
<p>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).</p>			
Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
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

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 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	0	It is estimated that 606 CAIs will be added to the completed Network.	
	Subscribers receiving new access	0	Pending system acceptance	
	Subscribers receiving improved access	0	Pending system acceptance	
	Please identify the speed tiers that are available and the number or subscribers for each	0	Pending system acceptance	
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). N/A				
8a. Have your network management practices changed over the last quarter? <input type="radio"/> Yes <input checked="" type="radio"/> 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	Type of Anchor	Are you also the	Narrative description of how anchor institutions are using BTOP-

	Area (town or county)	Institution (as defined in your baseline)	broadband service provider for this institution? (Yes / No)	funded infrastructure
N/A	N/A	N/A	N/A	N/A

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
LTE Round 1- Initial 76 Sites Program

The LTE Round 1 program has been completed and tested. The operations team is in full swing maintaining the physical sites or RAN as well as the Core completing any software or hardware upgrades when needed assuring the newly developed LTE Network is performing at the levels intended from the initial design. All work on maintenance and operations will transfer to AT&T beginning in Q3 2018. Although we expect the transition to go smoothly we are planning to maintain a role on both technical and operations until the transfer is complete. Additionally, we will continue to work with our members to ensure their equipment is functioning and they are getting the service AT&T committed to providing.

PSBN Round 2 is expected to significantly ramp up its activity as well. Site selection will be a collaborative effort between the construction, environmental, fiscal, and AT&T's Radio Frequency (RF) teams. The team is expected to have a Project Schedule that details the steps of the program through completion. One of the expected challenges will be negotiating an amendment to the MSI contract that includes the additional scope. The work to identify sites and conduct the environmental review will dominate the quarter. LA-RICS is expecting to begin submitting environmental documentation in Q4 2018.

Outreach
 LA-RICS will no longer be doing the same type of outreach that it customarily performed. Those efforts will be taken over by AT&T as they seek to acquire new customers for FirstNet in the region. However, the LA-RICS team will be conducting meetings with landowners who have locations identified in our PSBN Round 2 site list. Those visits will be in earnest during Q3 2018.

NOC Implementation
 A few remaining items to be completed include network connections for the stations including turn-up and test to bring the NOC online by the end of Q3 2018.

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	96	Completion of NOC at Sheriff's Communication Center (SCC)
2b.	Environmental Assessment	100	No variance from baseline
2c.	Network Design	100	Complete
2d.	Rights of Way	100	Complete
2e.	Construction Permits and Other Approvals	100	Complete
2f.	Site Preparation	100	Complete
2g.	Equipment Procurement	100	Complete
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Complete
2i.	Equipment Deployment	100	Complete
2j.	Network Testing	100	Complete
2k.	Other (please specify):	0	N/A

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

OMB CONTROL NUMBER: 0660-0037

DATE: 08/21/2018

EXPIRATION DATE: 12/31/2015

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).

Engagement with agencies who currently have test Demo Kits and routers will continue as well as technical coordination meetings to support the transition to FirstNet. LA-RICS will continue to work with the Los Angeles County Sheriff's Department (LASD) and the County of Los Angeles Fire Department (LACoFD) on the transition of devices into LA-RICS FirstNet/AT&T.

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

DATE: 08/21/2018

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2015

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	\$25,412,767	\$11,150,040	\$14,262,727	\$28,257,646	\$11,404,168	\$16,853,478	\$28,446,222	\$11,456,884	\$16,989,338
b. Land, structures, right-of-ways, appraisals, etc.	\$21,310,254	\$10,160,688	\$11,149,566	\$8,595,043	\$7,949,852	\$645,191	\$8,655,754	\$7,986,667	\$669,087
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$29,391,350	\$1,569,511	\$27,821,839	\$33,894,743	\$1,569,511	\$32,325,232	\$34,059,194	\$1,569,511	\$32,489,683
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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$29,859,206	\$0	\$29,859,206	\$23,465,901	\$0	\$23,465,901	\$23,778,768	\$0	\$23,778,768
j. Equipment	\$36,520,364	\$3,954,604	\$32,565,760	\$41,853,608	\$4,717,056	\$37,136,552	\$42,262,934	\$4,831,778	\$37,431,156
k. Miscellaneous	\$7,643,389	\$3,185,800	\$4,458,039	\$6,202,832	\$1,416,750	\$4,786,082	\$6,313,030	\$1,469,222	\$4,843,808
l. SUBTOTAL (add a through k)	\$150,137,330	\$30,020,643	\$120,117,137	\$142,269,773	\$27,057,337	\$115,212,436	\$143,515,902	\$27,314,062	\$116,201,840
m. Contingencies									
n. TOTALS (sum of l and m)	\$150,137,330	\$30,020,643	\$120,117,137	\$142,269,773	\$27,057,337	\$115,212,436	\$143,515,902	\$27,314,062	\$116,201,840

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0

b. Program Income to Date: \$0