

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

DATE: 11/14/2018

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)

09-30-2018

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

GINA SAMY  
FISCAL OFFICER I

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

(323) 881-8255

7d. Email Address

GINA.SAMY@LA-RICS.ORG

7b. Signature of Certifying Official



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

11/14/2018

**Project Indicators (This Quarter)**

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

**Long Term Evolution (LTE) Round 1**

At the beginning of Quarter 3, 2018, the network transitioned 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 Los Angeles Regional Interoperable Communications System (LA-RICS) Public Safety Broadband Network (PSBN) has been operating a spectrum lease agreement with FirstNet since its inception. The lease agreement came to a close when the network fully transitioned to AT&T on June 30, 2018. Since the transition has occurred, Los Angeles Regional Interoperable Communications System (LA-RICS) will no longer be operating the PSBN.

**Public Safety Broadband Network (PSBN) Site Transition to AT&T:**

Initial site cuts, procedures and tests were conducted at the toy cell site at the Airwave Warehouse, a live site cutover and tests were done at the Compton Fire. These cutovers were to verify procedures and functionality of the system as well as users transitions. Due to issues within AT&T and user equipment transitioning, AT&T is moving to a new transition plan that involves cutting over the sites directly to AT&T core vs. using the 10Gb link they installed to transition sites sooner.

**Network Monitoring and Operations**

Currently all operations are monitored by Motorola Solutions, Inc. (MSI) and AT&T as of June 30, 2018. LA-RICS is working with FirstNet and AT&T on their Local Control capabilities provided by AT&T and our ability to monitor the new FirstNet network. The new Local Control is just being rolled out to the agencies as they sign on for service.

**Network Optimization**

The team completed all known parameter and antenna tilts to improve overall performance and ensure proper functioning of the network at handover to FirstNet/AT&T. LA-RICS handed over all outstanding performance issues to AT&T associated with the AT&T's Band 14 (B14) site deployment interfering with the PSBN network.

**Special Events**

There were no special events conducted during the Q3 of 2018.

**Status of Public Safety Broadband Network (PSBN) Agency Onboarding**

LA Sheriff Department - 1,317 routers installed with 1,212 active on the network.

LA County Fire Department - 693 routers installed with 624 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.

Public Safety Broadband Network (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.

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.

**Objective 1 (26) Site Augmentation:**

Work restarted on PSBN Round 2 immediately, particularly for site identification, initial environmental and equipment requirements.

**Objective 2 Status:**

LA-RICS has conducted meetings with AT&T on Standard Operating Procedures for the deployment, maintenance and storage as well as finalizing Vehicle and Radio Access Network (RAN) Specifications for the Cell On Light Truck (COLT). Currently waiting for AT&T Procedures and specifications to be delivered to LA-RICS.

**Objective 3 Application Interop:**

The Application Interoperability request for funding was not approved.

**Outreach Reporting**

Various meetings continued in the months of July, August and September 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. During this reporting period, Executive Director Edson and Jacobs Program Management met with City Managers and/or Police and Fire Chiefs from the cities of Arcadia, Azusa, Bell, Claremont, Compton, Gardena, Industry and Irwindale to discuss the transfer of LTE assets to AT&T and a potential Round 2 PSBN site.

**Board Actions:**

Amendment to extend MSI's Term of the Agreement for 60 days to allow the finalization of scope for the PSBN Round 2 buildout. Approval of sublicenses and consent to sublicense with New Cingular Wireless, PCS, LLC (NCW) for two LTE/LMR sites and an amendment, consent, assignment and assumption of Site Access Agreements for 26 LTE sites owned and operated by the County of Los Angeles with AT&T-NCW.

**Office of Inspector General (OIG) identified two findings during the Audit:**

1) Require LA-RICS, in consultation with NOAA, to develop and document procedures for maintaining its internal financial system.

2) Require LA-RICS, in consultation with NOAA, to develop and implement procedures for remitting interest quarterly.

These finding were addressed by LA RICS and the updated policies addressed the findings and recommendations made by the Office of Inspector General (OIG).

**Special Award Condition:**

A Revised Budget will be submitted to include only the allowable costs associated with the following approved Phase two Objectives:

1) Coverage augmentation

2) In-building coverage

3) The acquisition of rapid.

**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	78	
2b.	Environmental Assessment	100	Complete.
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	

**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, tested and transitioned. Outstanding issue is the final Site Access Agreement (SAA) between AT&T and site owners.

The LTE Round 2 program has the following challenge or issues:

**Objective 1**

1.) Locking down the site list with AT&T

2.) AT&T National Team determining upgrade configuration requirements from current 2 Transmit (T) by 4 Receive (R) to 4Tx4R and identifying equipment requirements utilizing a combination of available and new equipment.

Objective 2  
1.) Receiving requested information from AT&T such as specifications and Standard Operation Procedures (SOP) in a timely manner.

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.
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

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	0
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:  
N/A

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

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

**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)
<b>Broadband Wholesalers or Last Mile Providers</b>	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
<b>Community Anchor Institutions (including Government institutions)</b>	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.
<b>Residential / Households</b>	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
<b>Businesses</b>	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

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

N/A

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

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

N/A



**9. Community Anchor Institutions:**

Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
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

Work with AT&T/FirstNet to implement Local Control as Agencies sign on with the FirstNet system and begin device transitions to the FirstNet Network.

**PSBN Site Transition to AT&T:**

AT&T will continue testing all user functionality and migration processes to ensure end user experience will be acceptable. AT&T will also be escalating their schedule of circuit cuts to start in the 4th quarter to transition the sites directly to the AT&T core.

**PSBN Round 2**

**Objective 1 – (26) Site Augmentation:** Site selection will be a collaborative effort between the construction, environmental, fiscal, and AT&T’s Radio Frequency (RF) teams. The team has provided a Project Schedule that details the steps and milestones of the program through completion. One of the expected challenges will be negotiating an amendment to the MSI contract that includes the additional scope. Efforts to identify sites, complete a Bill of Materials, conduct the environmental review and generate Right of Entry (ROE) and Site Access Agreements (SAA) have dominated Q3 2018 and will carry into Q4 2018. LA-RICS is expected to provide the preliminary list of 26 Site candidates to NTIA and to begin submitting environmental documentation in Q4 2018.

**Objective 2 – Cell On Light Truck (COLT):**

Q4 COLT work will be refining the COLT specifications with AT&T as well as reviewing, modifying and agreeing to Standard Operating Procedures. LA-RICS will be working with Fire and Sheriff to refine the COLT specifications, operating and maintenance procedures.

**Objective 3 Application Interop:**

The Application Interoperability request will be revised during the 3rd quarter to address the issues cited for non-approval and will be resubmitted to NTIA.

**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 began meeting with landowners who have locations identified in our PSBN Round 2 site list. These efforts will continue through Q4 2018.

**Board Actions:**

There are no Board actions to report for next quarter.

**Office of Inspector General (OIG) identified two findings during the Audit:**

- 1) Require LA-RICS, in consultation with NOAA, to develop and document procedures for maintaining its internal financial system.
- 2) Require LA-RICS, in consultation with NOAA, to develop and implement procedures for remitting interest quarterly.

These finding were addressed by LA-RICS and the updated policies addressed the findings and recommendations made by the Office of Inspector General (OIG).

**Special Award Condition:**

A Revised Budget will be submitted to include only the allowable costs associated with the following approved Phase two Objectives:

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- 2) In-building coverage
- 3) The acquisition of rapid.

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	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	79	
2b.	Environmental Assessment	5	First Packages anticipated for a Nov 2018 delivery
2c.	Network Design	5	
2d.	Rights of Way	0	
2e.	Construction Permits and Other Approvals	0	
2f.	Site Preparation	0	
2g.	Equipment Procurement	0	
2h.	Network Build (all components - owned, leased, IRU, etc.)	0	
2i.	Equipment Deployment	0	
2j.	Network Testing	0	
2k.	Other (please specify):	0	

**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).**

The LTE Round 2 program has the following challenge or issues:

Objective 1

- 1.) Locking down the site list with AT&T
- 2.) Generate a combined MSI and AT&T Bill of Materials
- 3.) Beginning Environmental Assessment process
- 4.) Beginning Right of Entry and Site Access Agreement process

Objective 2

Receiving, meeting and modifying requested AT&T information such as specifications and SOPs in a timely manner from AT&T.

**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	\$34,473,403	\$11,150,040	\$23,323,363	\$28,546,229	\$11,404,168	\$17,142,061	\$28,734,804	\$11,456,884	\$17,277,920
b. Land, structures, right-of-ways, appraisals, etc.	\$22,795,901	\$10,160,688	\$12,635,213	\$8,604,598	\$7,949,852	\$654,746	\$8,665,309	\$7,986,667	\$678,642
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$38,448,541	\$1,569,511	\$36,879,030	\$34,791,845	\$1,569,511	\$33,222,334	\$34,956,296	\$1,569,511	\$33,386,785
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	\$17,903	\$0	\$17,903	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$33,689,249	\$0	\$33,689,249	\$23,955,495	\$0	\$23,955,495	\$24,268,362	\$0	\$24,268,362
j. Equipment	\$47,609,807	\$3,954,604	\$43,655,203	\$41,853,608	\$4,717,056	\$37,136,552	\$42,262,933	\$4,831,778	\$37,431,156
k. Miscellaneous	\$7,625,839	\$3,185,800	\$4,440,039	\$6,248,222	\$1,462,140	\$4,786,082	\$6,358,419	\$1,514,612	\$4,843,808
<b>l. SUBTOTAL (add a through k)</b>	\$184,660,643	\$30,020,643	\$154,640,000	\$143,999,997	\$27,102,727	\$116,897,270	\$145,246,123	\$27,359,452	\$117,886,673
m. Contingencies									
<b>n. TOTALS (sum of l and m)</b>	\$184,660,643	\$30,020,643	\$154,640,000	\$143,999,997	\$27,102,727	\$116,897,270	\$145,246,123	\$27,359,452	\$117,886,673

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.

<b>a. Application Budget Program Income:</b>	<b>b. Program Income to Date:</b>