QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identification Number	3. DUNS Number
Department of Commerce, National Telecommunications and Information Administration	NT10BIX5570158	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)	6. Is this the last Report of the Award Period?
12-31-2018	◯ 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	7c. Telephone (area code, number and extension)
GINA SAMY FISCAL OFFICER I	(323) 881-8255
	7d. Email Address GINA.SAMY@LA-RICS.ORG

7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):
	02/13/2019

Project Indicators (This Quarter)

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

Long Term Evolution (LTE) Round 1
On June 30, 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. Since the transition has occurred, Los Angeles Regional Interoperable Communications System (LA-RICS) is no longer operating the PSBN.

Public Safety Broadband Network (PSBN) Site Transition to AT&T:
During the 3rd Quarter 2018, due to issues within AT&T and user equipment transitioning, AT&T decided to modify their transition plan to cutting over the sites directly to AT&T core vs. using the 10Gb link they installed to transition sites sooner. AT&T has provided their transport circuit cutover schedule on a weekly basis during the 4th quarter to keep LA-RICS updated on changes to the site cutover timing. As of the end of the 4th quarter only 3 sites have received new transport, but have not transitioned off of the PSBN to the AT&T system due to integration issues and process optimization efforts. The sites will not transition from the PSBN to AT&T FirstNet Core until 1st and 2nd quarters 2019

Network Monitoring and Operations
Currently all operations are monitored by Motorola Solutions, Inc. (MSI) and AT&T as of June 30, 2018. LA-RICS continues to work 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. Local control will not be provided until the 1st quarter 2019.

Network Optimization
During the 4th quarter 2018, no changes were made to the PSBN by MSI for Optimization.

Special Events
There were two special events conducted during the Q4 of 2018, the Carnaval Parade October 31st and set up for the Rose Parade December 30th to 31st, No special testing or services were provided. No issues were identified or occurred.

Status of PSBN Agency Onboarding
  LA Sheriff Department - 1,330 routers installed with 1,330 active on the network.
  LA County Fire Department - 694 routers installed with 694 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 continued on PSBN Round 2 during the 4th quarter covering the following items: Final site identification and concurrence with AT&T, Site Access agreement negotiations, creating environmental assessments for the first 15 sites and the second 11 sites, working with AT&T to finalize equipment requirements, creating Bill of Materials (BOMS) for each site and final negotiations with MSI for equipment procurement and delivery of equipment for all 26 sites as well as services for 9 Colocation sites. Zoning Drawings (ZDs) have been completed for seven out of the initial fifteen sites.

Objective 2 Status:
LA-RICS had meetings with AT&T covering Demos of their current deployable models, review of 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) in December 2018. Currently waiting for AT&T letter of support for providing and supporting LA-RICS COLT assets

to be allowed to broadcast and work on the FirstNet system is scheduled to be delivered to LA-RICS in January 2019.

Objective 3 Application Interop:
The Application Interoperability request for funding was resubmitted to NTIA during the 4th quarter 2018, currently waiting for decision on new request from NTIA.

Outreach Reporting
Various meetings continued in the months of October, November and December 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 continued meetings with City Managers and/or Police and Fire Chiefs from the cities of Inglewood, Irwindale, Rancho Palos Verdes, Signal Hill and Vernon 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.

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	76	
2b.	Environmental Assessment	72	
2c.	Network Design	72	
2d.	Rights of Way	72	
2e.	Construction Permits and Other Approvals	72	
2f.	Site Preparation	72	
2g.	Equipment Procurement	72	
2h.	Network Build (all components - owned, leased, IRU, etc)	72	
2i.	Equipment Deployment	72	
2j.	Network Testing	72	
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 100% 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.) Finalizing MSI contract for equipment requirements utilizing a combination of available and new equipment as well as services delivered by MSI for 9 colocations sites.

Objective 2
1.) Receiving letter from AT&T on the support and use of spectrum for LA-RICS provided COLT assets.

Objective 3
1.) Receiving a decision from NTIA on newest request.

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)

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**	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? ○ 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 1st quarter to transition the sites directly to the AT&T core. Work with AT&T on the transition of sites and minimizing the impact to the agencies during transition during Q1 and Q2 2019.

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. The expected challenge has included the negotiation of 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 Q4 2018 and will carry into Q1 2019. LA-RICS is expected to provide the remaining eleven preliminary Site candidates to NTIA in Q1 2019. LA-RICS began submitting environmental documentation in December 2018.

Objective 2 – Cell On Light Truck (COLT):
Q1 COLT work will be refining the COLT specifications with Fire, Sheriff and AT&T as well as reviewing, modifying and agreeing to Standard Operating Procedures. LA-RICS will be working with LA-RICS procurement to refine the COLT specifications, create and issue bid documents for the procurement of COLTS during the 2nd and 3rd quarters 2019.

Objective 3 Application Interop:
The Application Interoperability was revised and submitted in the 4th quarter to address the issues sited for non-approval and will be resubmitted to NTIA. Expectation is to get a formal decision from NTIA in January 2019.

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.

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	76	
2b.	Environmental Assessment	80	
2c.	Network Design	75	
2d.	Rights of Way	72	
2e.	Construction Permits and Other Approvals	72	
2f.	Site Preparation	72	
2g.	Equipment Procurement	72	
2h.	Network Build (all components - owned, leased, IRU, etc.)	72	
2i.	Equipment Deployment	72	
2j.	Network Testing	72	
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 remaining 11 site locations with AT&T

2.) Generate a combined MSI and AT&T Bill of Materials

3.) Environmental Assessment process

4.) Right of Entry and Site Access Agreement process

Objective 2

Beginning procurement process for COLT procurement.

Objective 3

Getting approval to move forward with Objective 3 in 1Q 2019.

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.

Cost Classification	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		
	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	$38,582,924	$15,259,561	$23,323,363	$29,063,481	$11,404,168	$17,659,313	$29,261,175	$11,455,559	$17,805,617
b. Land, structures, right-of-ways, appraisals, etc.	$26,074,247	$13,439,034	$12,635,213	$8,604,598	$7,949,852	$654,746	$8,665,663	$7,986,667	$678,996
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	$34,854,177	$1,569,511	$33,284,666	$35,028,002	$1,569,511	$33,458,491
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	$24,095,809	$0	$24,095,809
j. Equipment	$48,872,211	$5,217,008	$43,655,203	$43,461,093	$4,717,056	$38,744,037	$43,690,017	$4,771,626	$38,918,391
k. Miscellaneous	$7,625,039	$3,185,000	$4,440,039	$6,273,179	$1,487,097	$4,786,082	$6,379,083	$1,539,446	$4,839,637
l. SUBTOTAL (add a through k)	$193,310,114	$38,670,114	$154,640,000	$146,212,023	$27,127,684	$119,084,339	$147,119,749	$27,322,809	$119,796,941
m. Contingencies									
n. TOTALS (sum of l and m)	$193,310,114	$38,670,114	$154,640,000	$146,212,023	$27,127,684	$119,084,339	$147,119,749	$27,322,809	$119,796,941

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:	b. Program Income to Date: