

**QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS**

**General Information**

<b>1. Federal Agency and Organizational Element to Which Report is Submitted</b>  Department of Commerce, National Telecommunications and Information Administration	<b>2. Award Identification Number</b>  NT10BIX5570158	<b>3. DUNS Number</b>  962696089
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**4. Recipient Organization**

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

<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2019	<b>6. Is this the last Report of the Award Period?</b>  <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.**

<b>7a. Typed or Printed Name and Title of Certifying Official</b>  GINA SAMY FISCAL OFFICER I	<b>7c. Telephone (area code, number and extension)</b>  (323) 881-8255
	<b>7d. Email Address</b>  GINA.SAMY@LA-RICS.ORG

<b>7b. Signature of Certifying Official</b>  	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  11-18-2019
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**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 grant-funded network transitioned to AT&T, the private partner of the First Responder Network Authority, at the close of the business agreement and approval of the asset transfer agreement from the National Telecommunications and Information Administration (NTIA) and approved by National Oceanic and Atmospheric Administration (NOAA). 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, LA-RICS is no longer operating the PSBN.

## Public Safety Broadband Network (PSBN) Site Transition to AT&amp;T:

During the 3Q 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 10G link they installed to transition sites sooner. AT&T has provided their transport circuit cutover schedule on a weekly basis since the 4Q 2018 to keep LA-RICS updated on changes to the site cutover timing. As of the end of the 3Q 2019, 40 sites have received new transport, and have transitioned off the PSBN to the AT&T system.

## Network Monitoring and Operations

Currently all operations are monitored by Motorola Solutions, Inc. (MSI) and AT&T as of 6/30/2018. 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 being rolled out to the agencies as they sign on for service. Local control has been provided to the agencies during the 1Q 2019. Further meetings with AT&T have provided more definition around uplift and priority settings and how they will be implemented. Detailed time frames have not been established yet for the rest of the Local Control functionality. A meeting was scheduled for the end of September 2019 to get a better handle on future enhancements, but was moved to Mid-October 2019.

## Network Optimization

During the 3Q 2019, no changes were made to the PSBN by MSI for Optimization; any changes to the network are now handled by AT&T and only to sites that have been transitioned to National Public Safety Broadband Network (NPSBN).

## Special Events

There were no special events conducted during 3Q 2019.

## Status of PSBN Agency Onboarding

LA Sheriff Department - 1,435 routers installed with 1,435 active on the network.

LA County Fire Department - 694 routers installed with 694 active on the network.

These numbers are the final numbers of active BTOP provided Modems that were put into service on the network. These modems will be reducing over the 3Q and 4Q due to being non-compliant with the AT&T/FirstNet system and will be replaced by compliant certified equipment during the last 2 quarters of 2019. A separate program is keeping track of returned Modems to LA-RICS from the replacement program. The disposition requests for the older devices will be provided to NTIA and NOAA, who will ultimately provide the disposition instructions for the older, non-compliant devices.

All agencies onboarding program for LA-RICS have been concluded. No further on-boarding work is contemplated. All future on-boarding of agencies is at the sole discretion of AT&T/FirstNet

## LTE Round 2

LA-RICS received formal approval of Objectives 1 and 2 from NTIA on 6/28/2018.

## Objective 1 (26) Site Augmentation:

Work continued on PSBN Round 2 during 3Q 2019 for the following: Final site identification and concurrence with AT&T, Site Access Agreement (SAA) negotiations, creating environmental assessments for the first 15 sites and the second 11 sites. Zoning Drawings (ZDs) and Construction Drawings (CDs) have been completed for 13 sites, of those, 3 sites are in building permit process. Construction contracts have been awarded for 4 sites, and Invitations for Bids (IFBs) are being issued for 6 sites. SAAs have been fully executed for two sites. SAA for 6 Southern California Edison sites have been fully approved by both parties, they are planned to be executed immediately before start of construction, since the execution of SAA triggers rent payment.

## Objective 2 Status:

Bid packages were issued to potential responders during the 3Q 2019 for the procurement of the Cell On Light Truck (COLT). Bids were received from the potential bidders on September 10th. Bid evaluation and contract negotiations will continue into 4Q 2019 to be ready for the December board meeting. LA-RICS and AT&T will also be working on terms for the FirstNet Remote Mobility Zone (FRMZ) service, which allows the building procurement and deployment of a COLT to run on the FirstNet AT&T service. AT&T has provided the minimum required elements that have to be purchased by AT&T (Radio equipment, satellite modem and FirstNet connection services), the contract and terms need to be vetted and agreed upon. Initial meetings with AT&T on the scope and supplied equipment started in 2Q 2019 and will continue into the 4Q to complete a contract with AT&T on the FRMZ services before the December board meeting.

**Outreach Reporting**

Various meetings continued in 3Q 2019 with AT&T to 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 Claremont, Covina, Inglewood, San Fernando, Signal Hill and South Pasadena to discuss potential Round 2 PSBN sites.

**Board Actions:**

On 7/11/2019 the Board approved an amendment to the Land Mobile Radio (LMR) SAA for Monte Vista Star Center (MVS2) to be a collocated LTE2 site. LTE Round 2 SAA for Inglewood (IGPD), Irwindale (IRWPD), Scholl Canyon (SCHCYN) and THOMSEN were approved by the Board on 8/1/2019.

**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	Progress has been made on Site Access Agreements and Construction Drawings for PSBN Round 2 sites. Four construction contracts have been issued and an additional six IFBs have been released.
2b.	Environmental Assessment	90	Finding Of No Significant Impact (FONSI) received for 13 sites. A Supplemental Environmental Assessment (SEA) has been submitted for an additional 8 sites (SEA4)
2c.	Network Design	90	Progress has been made on finalizing list of 26 PSBN Round 2 sites. LA-RICS and AT&T have agreed on parameters for extending network fiber to sites.
2d.	Rights of Way	88	LA-RICS has reached agreement with Southern California Edison on the use of six substations as antenna sites and also with LA County for collocation on an existing antenna structure. Additional agreements have been reached with the City of Inglewood and UCLA.
2e.	Construction Permits and Other Approvals	72	No new permits were received during Q3 2019.
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. 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 site designs.

**Objective 2**

- 1.) Receiving letter from AT&T on the support and use of spectrum for LA-RICS provided COLT assets. – Completed
- 2.) Ensuring that the Final Procurement documents and specifications were ready to go out for Bid. The procurement of the COLT will include a vehicle that will house and support Cell infrastructure equipment such as a mast, antennas, band 14 radio equipment, Heating, Ventilating and Air Conditioning (HVAC), Generator and racking for transmission and satellite equipment as well as AT&T/

FirstNet FRMZ connection services.- Completed.  
 3.) Procurement Bid documents were released in 3rd Quarter 2019 and Bids were received on September 10th 2019. Bids are currently being reviewed.  
 4.) Procurement documents began being drafted in the 2nd Quarter 2019 and are expected to complete in 4th Quarter 2019 for the AT&T FRMZ service.

**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)
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
Community Anchor Institutions (including Government institutions)	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
	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.
Residential / Households	Please identify the speed tiers that are available and the number of subscribers for each	0	Pending system acceptance.
	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
Businesses	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
	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

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

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

PSBN Site Transition to AT&T:

AT&T has 40 of 75 sites transitioned to date. Currently we are tracking both site access agreements and site cutovers to ensure a majority of the sites are transition to AT&T FirstNet Core during 4th Quarter 2019.

PSBN Round 2

Objective 1 – (26) Site Augmentation: It is expected that environmental assessment documentation will be submitted for all 26 sites. We expect to have Site Access Agreements fully executed for 20 sites, and building permits issued and equipment ordered for those same sites. We expect to have finalized the complete list of 26 sites to be built in Round 2. Eight more sites will be ready for submission as soon as final reviews have been made by the property owners. Draft CDs are being reviewed for the remainder sites. ZDs are in process for an additional seven sites. We expect to have designs completed and building permit applications submitted for an additional 2 sites in November, 2019, 15 sites in December, and the remaining 6 sites in January. Construction is expected to start at one site in December, 2019, 4 sites in January 2020, 13 sites in February, 6 sites in March, and the remaining 2 in April.

Objective 2 – Cell On Light Truck (COLT):

4th Quarter 2019 COLT work will entail finalizing contract details and creating an order for procurement the COLTS and have that approved at the December board meeting. LA-RICS technical staff will be working with LA-RICS procurement to finalize the AT&T/FRMZ service scope with AT&T, during 4th Quarter 2019 to meet the December board meeting.

LA-RICS requests of approval for the retention of BTOP funded assets to continue to fulfill the objectives of the BTOP grant as well as provide beneficial use of the asset throughout its useful life was provided to NOAA/NTIA on 7/24/19.

Outreach

Negotiations with agencies for LTE Round 2 site access agreements are underway. As we get closer to construction activities, outreach to residents/businesses within 500 feet of a site will be required.

Board Actions:

Site Access Agreement Board Letters for several LTE Round 2 sites to report for next quarter. At the 10/3/19 meeting, the Board approved a Site Access Agreement for Cerro Negro (CRN2). We anticipate approval for sites Azusa (AZUCYN), Claremont (CLRMPD1), Pomona Courthouse (POM2), Compton Courthouse (CCB2), Cougar Water Tank (COUG), Montebello (MNTBLPD) and La Verne (LVRNPD) at the meetings of 11/7/19 and 12/5/19.

**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	79	
2b.	Environmental Assessment	100	Environmental assessments to be submitted for all remaining sites.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2c.	Network Design	100	List of 26 sites to be finalized.
2d.	Rights of Way	95	Site Access Agreements to be executed for 20 sites.
2e.	Construction Permits and Other Approvals	88	Building permits to be issued for 15 sites
2f.	Site Preparation	83	
2g.	Equipment Procurement	86	Equipment to be ordered for 13 sites.
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.) Environmental Assessment process for the balance of the 26 approved sites.
- 2.) Right of Entry and Site Access Agreement process.

Objective 2

Completing the contract with the COLT vendor as well as with AT&T FRMZ service and issue an order for the COLTs.

### 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	\$38,582,924	\$15,259,561	\$23,323,363	\$32,840,923	\$12,202,890	\$20,638,032	\$33,101,743	\$12,271,865	\$20,829,878
b. Land, structures, right-of-ways, appraisals, etc.	\$26,074,247	\$13,439,034	\$12,635,213	\$8,604,598	\$7,949,853	\$654,746	\$8,659,557	\$7,982,986	\$676,571
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	\$36,002,289	\$1,569,511	\$34,432,778	\$36,122,787	\$1,569,511	\$34,553,275
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	\$23,984,980	\$0	\$23,984,980
j. Equipment	\$48,872,211	\$5,217,008	\$43,655,203	\$43,531,093	\$4,717,056	\$38,814,037	\$43,684,838	\$4,766,169	\$38,918,669
k. Miscellaneous	\$7,625,039	\$3,185,000	\$4,440,039	\$6,299,041	\$1,512,959	\$4,786,082	\$6,383,816	\$1,552,161	\$4,831,655
<b>l. SUBTOTAL (add a through k)</b>	\$193,310,114	\$38,670,114	\$154,640,000	\$151,233,439	\$27,952,269	\$123,281,170	\$151,937,721	\$28,142,692	\$123,795,028
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	\$193,310,114	\$38,670,114	\$154,640,000	\$151,233,439	\$27,952,269	\$123,281,170	\$151,937,721	\$28,142,692	\$123,795,028

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>