

**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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<b>4. Recipient Organization</b>  Los Angeles Regional Interoperable Communications System Authority 2525 Corporate PL Ste 200, Monterey Park, CA 91754-7672
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<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2015	<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>  Arnaldo de la Paz	<b>7c. Telephone (area code, number and extension)</b>  3238818318
	<b>7d. Email Address</b>  arnaldo.delapaz@la-rics.org

<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  12-03-2015
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**Project Indicators (This Quarter)**

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

During this quarter, 63 fixed sites are either under construction or have been completed on or before 9-30-15. The project received State Historic Preservation Officer (SHPO) concurrence on all Cells on Wheels (COW). 13 COWs have been equipped and deployed. The power and backhaul procurement efforts are ongoing with 25% of all utilities completed or installed at all PSBN sites. Weekly status meetings for site development and utility updates will continue through the end of the year. Commercial fiber continues to be the more difficult task to accomplish of the two utilities. Jacobs and the Authority have scheduled meetings with the top three (3) backhaul providers Time Warner, ATT & Verizon Wireless Business to discuss at a high level schedules as well as circuit delivery dates which continue to slip on a weekly basis.

The Public Safety Broadband Network (PSBN) project is now completing construction and moving into the final phase of turning up the network. The Authority has requested from Motorola Solutions Inc (MSI) a revised and more compressed testing and optimization plan, much different from that originally outlined in the agreement where 232 sites were considered. The plan is to allow for all required testing and optimization to provide a state of the art LTE system network, but in a more condensed time frame. The Authority, National Telecommunications and Information Administration (NTIA), as well as First Net would like to have the network at a functional state by the end of 2015, enabling the agencies access for SOT (Special Operations Testing) and to utilize the system with an initial soft launch.

LA-RICS submitted a formal request for additional time to complete the project and was granted an extension of the performance period to December 31, 2015.

PSBN Components. Placed and completed orders for fiber connectivity equipment and universal integrated circuit cards. Placed additional orders and received vehicular modem routers, increasing the total to 3,300. Los Angeles County Fire (LACF) has installed a vehicular modem into a mobile video truck and was able to successfully use StrongWatch surveillance technology. LACF has installed three more vehicular modems into pilot vehicles.

Network Operation Centers (NOC). Began installation of equipment at Los Angeles County Fire Control and Command (FCC), Los Angeles Sheriff's Department Sheriff's Communication Center (SCC) and LA-RICS headquarters. Initial installs include work station locations, hardware "Monitors-Server", and furniture.

Outreach to potential users. Various agencies expressed interest in the LA-RICS PSBN system. The Executive Director and members of the Outreach Team met with members of California Highway Patrol, Coast Guard, Drug Enforcement Administration, Alcohol, Tobacco and Firearm and the Marshall's Office to discuss the benefits of the project. They provided project fact sheets to the agencies.

Project sustainability. The adopted Funding Plan identifies the cost factors which will be paid by members effective conclusion of the membership opt-out period. In addition, non- members will also pay subscription fees to finance the continuing operation and maintenance of the system. Fees were determined in a funding plan approved in March, 2014. Members have until November 24, 2015 to decide if they want to stay as members or not.

**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	53	In anticipation of the BTOP appropriation period ending on September 30, 2015, LA-RICS was instructed to draw down the balance of the award amount, subject to terms of a special award condition.
2b.	Environmental Assessment	99	Concluded the Section 7 and Section 106 consultation processes and the NEPA process for the project in the quarter. Extension of grant period extended construction timeline. Construction monitoring is ongoing, only minor compliance issues have been identified to date, and these have been aggressively corrected.
2c.	Network Design	99	The network design has been updated to a total of 78 sites, consisting of 63 fixed Long Term Evolution (LTE) sites, 1 microwave site, and 14 COWs.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2d.	Rights of Way	98	All outreach work is completed except for one COW site, CHP Woodland Hills. Before outreach work could be started, LA-RICS needs to execute first a site access agreement (SAA) with the State of California. This is projected to be accomplished next month.
2e.	Construction Permits and Other Approvals	98	All building permits are received, nothing is outstanding. The outreach team initiated meeting with the station commander of the CHP Woodland Hills site. Next month, a follow up meeting will be held to discuss scheduling and strategy which includes conducting outreach-- first to CHP staff, followed by door-to-door community outreach to residents and businesses within a 500 feet radius of the site.
2f.	Site Preparation	99	All geotech work is completed for all sites.
2g.	Equipment Procurement	98	Additional vehicular router modems were ordered, increasing the total to 3,300.
2h.	Network Build (all components - owned, leased, IRU, etc)	90	63 fixed sites are completed. 13 COWs are deployed and put in their final location. One site, CHP Woodland Hills, is pending-- expected to start construction next quarter.
2i.	Equipment Deployment	80	All COWs have been equipped and 13 have been deployed to designated sites.
2j.	Network Testing	10	MSI has completed all commissioning for the eNodeB; 23 of 23 microwave sites are installed, 12 of 12 microwave path alignments are complete; 32 of 77 sites are connected to the core.
2k.	Other (please specify):	0	MSI will provide the provisioning courses (consisting of close to 23 courses) to be scheduled over the next 6 months, pending network completion and the availability of the individuals from each agency and their schedules.

**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).**

One COW site, CHP Newhall Area Station, had to be dropped from the network because of limited space at the site.

Commercial power at a few remaining sites are pending meter sets and final turn on of power. The Authority and MSI continued to work closely with the power companies to finalize all remaining installations of power to stay on track with the revised testing schedule. Weekly meetings with MSI and once a week calls with Southern California Edison and Department of Water and Power are being made.

**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	0	No new miles were deployed during this period.
New network miles leased	0	The Authority has not acquired or leased any new miles during this period.
Existing network miles upgraded	0	Variance from the baseline plan resulted from the delayed build out of the network.
Existing network miles leased	0	The Authority has not leased any existing miles during this period.
Number of miles of new fiber (aerial or underground)	0	No new miles to report this period.
Number of new wireless links	0	No new wireless links to report this period.
Number of new towers	30	Newly-constructed 25 Monopoles, 1 Monopine, 2 Monopalms, and 2 Monopole/Flag Poles.

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Number of new and/or upgraded interconnection points	0	No new and/or upgraded interconnection points to report.

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 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
	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. The list will be added in the 4Q 2015 report.
	Subscribers 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)
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number or subscribers for each	0	N/A
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).**

Next quarter, the site access agreement for the CHP Woodland Hills site will be executed, allowing the start of outreach work. Construction will begin soon after outreach is completed. The PSBN project, including 63 static sites and 14 COWs, will transition into the final phase of testing and optimization of the network.

The Authority, NTIA, as well as First Net, would like to have the network at a functional state by the end of 2015, enabling the agencies

to utilize the system with an initial soft launch, with functionality demonstrated at the 2016 Rose Parade in Pasadena, CA.

Outreach to potential users. Aggressively follow up initial contact with interested new users by scheduling additional meetings, preparing customized PowerPoint presentations. A successful demo of the system's functionality during the 2016 Rose Parade is expected to attract new users to its benefits.

Devices. LACF plans on installing 15 vehicular modems into pilot vehicles by the end of the year. The estimated schedule for the remaining vehicular modems is to start rolling them out in 1Q 2016 and finishing up in 3Q 2016.

Project sustainability. After the opt-out period has expired, the final costs to remaining members will be set, and subscription plans will be finalized.

Network Operation Centers (NOC). Installation of equipment is expected to be completed at two sites, with the LASD site (SCC) lagging a bit behind but will be completed by mid December (it requires additional attention developing the six work stations designed for the space provided for LA-RICS).

User Training. The plan is for the Authority staff to take training classes on Public Safety LTE System Overview, Basic Networking, Public Safety LTE System Provisioning, Public Safety System Administration by December 31, 2015.

KPI Projections. It is estimated that 606 Community Anchor Institutions (schools, hospitals, public safety entities) could be directly connected to the completed network. It is expected 113.7 New Miles to be deployed, Zero New Miles to be leased, 100-110 Existing Miles to be upgraded, 77 Wireless Transmission Sites, 527 Existing Network Miles to be leased and Zero Improved CAIs.

**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	100	It is estimated that 606 Community Anchor Institutions (schools, hospitals, public safety entities) could be directly connected to the completed network. It is expected 113.7 New Miles to be deployed, Zero New Miles to be leased, 100-110 Existing Miles to be upgraded, 77 Wireless Transmission Sites, 527 Existing Network Miles to be leased and Zero Improved CAIs.
2b.	Environmental Assessment	100	Environmental monitoring efforts for the remaining construction activities is ongoing. This milestone should be completed in the next quarter.
2c.	Network Design	100	Final network design will consist of 63 fixed sites, 1 microwave site, and 14 COWs.
2d.	Rights of Way	100	Complete
2e.	Construction Permits and Other Approvals	100	Complete. The SAA for the Woodland Hills CHP site will be executed during the quarter, allowing the start of outreach work.
2f.	Site Preparation	100	Complete
2g.	Equipment Procurement	100	Complete
2h.	Network Build (all components - owned, leased, IRU, etc.)	100	Start and finish construction at Woodland Hills CHP site.
2i.	Equipment Deployment	100	Complete
2j.	Network Testing	100	Connect all 77 sites to the core; begin optimization of the first of eight clusters by November, 2015.
2k.	Other (please specify):	0	Start special events planning for the 2016 Rose Parade.

**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).**

Issues from procurement of commercial fiber and permanent power supply may provide continuing challenges. Constant communication is helping but we are not in the clear on all sites. We currently have projected dates for nearly all of the remaining sites without permanent power, and the few outstanding sites with a plan to complete. The same issues for the backhaul, both microwave and leased circuits. Weekly meetings are taking place with both MSI and the carriers. (TimeWarner, ATT, Verizon) The procurement of the backhaul for leased circuits has its own challenges and requires far more attention than the delivery of the microwave link. Path alignment and turn up is controlled by MSI therefore the outcome is better

RECIPIENT NAME: Los Angeles Regional Interoperable Communications System Authority

AWARD NUMBER: NT10BIX5570158

DATE: 12/03/2015

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2015

realized.

**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	\$21,638,208	\$9,051,435	\$12,586,773	\$20,456,599	\$9,425,088	\$11,031,511	\$22,384,029	\$9,797,256	\$12,586,773
b. Land, structures, right-of-ways, appraisals, etc.	\$13,924,063	\$6,503,266	\$7,420,797	\$6,219,858	\$6,219,858		\$15,293,685	\$7,872,888	\$7,420,797
c. Relocation expenses and payments									
d. Architectural and engineering fees	\$31,932,812	\$1,405,994	\$30,526,818	\$17,759,219	\$1,455,030	\$16,304,189	\$32,043,272	\$1,516,454	\$30,526,818
e. Other architectural and engineering fees									
f. Project inspection fees									
g. Site work									
h. Demolition and removal									
i. Construction	\$22,375,009		\$22,375,009	\$1,419,312		\$1,419,312	\$22,375,009		\$22,375,009
j. Equipment	\$41,713,113	\$1,927,892	\$39,785,221	\$24,547,268	\$1,257,008	\$23,290,260	\$41,042,229	\$1,257,008	\$39,785,221
k. Miscellaneous	\$6,318,019	\$1,870,500	\$4,447,519	\$3,135,738		\$3,135,738	\$4,447,519		\$4,447,519
<b>l. SUBTOTAL (add a through k)</b>	\$137,901,224	\$20,759,087	\$117,142,137	\$73,537,994	\$18,356,984	\$55,181,010	\$137,585,743	\$20,443,606	\$117,142,137
m. Contingencies									
<b>n. TOTALS (sum of l and m)</b>	\$137,901,224	\$20,759,087	\$117,142,137	\$73,537,994	\$18,356,984	\$55,181,010	\$137,585,743	\$20,443,606	\$117,142,137

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
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