

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

**General Information**

<p><b>1. Federal Agency and Organizational Element to Which Report is Submitted</b></p> <p>Department of Commerce, National Telecommunications and Information Administration</p>	<p><b>2. Award Identification Number</b></p> <p>NT10BIX5570158</p>	<p><b>3. DUNS Number</b></p> <p>962696089</p>
<p><b>4. Recipient Organization</b></p> <p>Los Angeles Regional Interoperable Communications System Authority 2525 Corporate PL Ste 200, Monterey Park, CA 91754-7672</p>		
<p><b>5. Current Reporting Period End Date (MM/DD/YYYY)</b></p> <p>03-31-2015</p>	<p><b>6. Is this the last Report of the Award Period?</b></p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>	
<p><b>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></p>		
<p><b>7a. Typed or Printed Name and Title of Certifying Official</b></p> <p>Arnaldo de la Paz</p>	<p><b>7c. Telephone (area code, number and extension)</b></p> <p>3238818318</p>	
	<p><b>7d. Email Address</b></p> <p>arnaldo.delapaz@la-rics.org</p>	
<p><b>7b. Signature of Certifying Official</b></p> <p>Submitted Electronically</p>	<p><b>7e. Date Report Submitted (MM/DD/YYYY):</b></p> <p>05-26-2015</p>	

**Project Indicators (This Quarter)**

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

The project progressed in all Phases during the period. The Authority moved forward with its 177 base site design package and finalized backhaul connectivity for each location. Equipment and antenna support structures were also finalized.

**ENVIRONMENTAL ASSESSMENT.** LA-RICS prepared two draft supplemental environmental assessments (EAs), one for the U.S. Army Corps of Engineers (for Site LAFD088) and one for six new or altered LTE sites. Developed requests and received approvals for changes in 42 sites in route modifications 1 and 2. Developed and submitted requests for 18 new or altered sites in route modification 3 and 4. Consultation with the federal land management agencies is ongoing for the use of the sites on federal lands. Continued to monitor site design for potential “out of envelope” items that could potentially trigger a route modification request or other environmental review. To date we have received 184 clearances from SHPO. During the reporting period, we continued development of the FCC 620/621 forms for the supplemental sites. To date we have developed requests, approved by NTIA, for exemption from SHPO review for 11 sites. Environmental compliance efforts were undertaken for the sites in construction. This effort included biological and cultural resources monitoring and reporting. LA-RICS provided a rapid and purposeful response to neighbor complaints and local official / USFWS / NTIA inquiries regarding construction efforts at one site near Agoura Hills (Site LACF065).

**RIGHTS OF WAY/PERMITS.** We have received 80 building permits and have approximately 13 permits pending release from the County Building Department. Additional sets of plans (18) for sites are being submitted weekly to the building department. To-date, 164 Rights of Entry and 150 Site Access Agreements were executed; 164 outreach activities were conducted, and 160 sites have had geo-tech drilling performed. The Authority received signed Site Access Agreements from the City of Los Angeles (50), City of Azusa (1), Gardena (1), City of Arcadia (1), El Monte (1), Industry (1), La Habra (2) and Vernon (2). We have received signed site access agreements for all L.A. County-owned sites and construction has started on 60 sites and to-date, 15 sites have infrastructure completed (but not power-energized).

**NETWORK DESIGN.** The Public Safety Broadband Network (PSBN) is almost complete. The significant design milestones have all been achieved.

The backhaul network has been finalized and Notices to Proceed (NTP) for both the commercial leased fiber and microwave backhaul solutions are in process but have yet to be issued. RAN design is also complete and eNodeB programming specifications are being created by Ericsson. MOUs between the City of Los Angeles and County of Los Angeles for use of existing fiber installations and microwave networks are close to acceptance by all parties.

**NETWORK BUILD.** The primary core is installed and testing has commenced. The secondary EPC delivery and installation began at the end of March, 2015. Additionally, five (5) eNodeB’s have been delivered to sites.

**FEDERAL COMMUNICATIONS COMMISSION (FCC) LICENSING.** To-date, requests for 17 of 17 links have been submitted for frequency coordination. 15 of the 17 requests have completed frequency coordination. 15 of 17 links have FCC 601 applications submitted. Four (4) of these links will be updated to reflect change of radiation center (antenna height). Two (2) of the remaining links are pending frequency coordination due to change of tower location or addition of a new site.

**CONSTRUCTION.** In January, construction began on two Vernon Fire Department sites, VEFD001 and VEFD003. In March, authorization was issued for construction to start in four sites: Arcadia Police Department, Azusa PD, El Monte PD, and LA County Fire Station 159. To-date, 28 towers have been erected: 16 monopoles and 12 hose towers.

**PROJECT SUSTAINABILITY.** In May, 2014 the LA-RICS Board adopted a funding plan based on members' share of systems cost, proportionate to population and geography. However, under this plan, if membership goes down, the cost that remaining members will share will go up. To find another option, the LA-RICS board gave instructions for the drafting of an alternative plan during its March, 2015 meeting. The draft funding plan was provided to the Ad Hoc Subcommittee on March 26, 2015. It is based on the concept that Los Angeles County and the City of Los Angeles will assume the risk of providing funds to support the operations and maintenance of the systems, while members pay a monthly subscription for using the systems.

**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	19	On March 24, 2015, the Los Angeles County Board of Supervisors directed LA-RICS to halt construction at all County fire stations. This is in response to concerns raised by LA County Firefighters Local 1014 and residents regarding health risk and towers aesthetics. On April 1, 2015,

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			the City Council of Los Angeles will address similar issues regarding construction on city-owned fire and police stations. The City Council is expected to make the same motion as the County Board. This will delay the project significantly.
	2b. Environmental Assessment	90	This milestone varied from the baseline plan because sites had to be dropped, replacement sites had to be assessed, route modifications were made and the prolonged process it took to secure FONSI. Steady progress continues to be made toward finalizing environmental compliance. Construction monitoring is ongoing, only minor compliance issues have been identified to date, and these have been aggressively corrected.
	2c. Network Design	97	After the motion by the County Board of Supervisors (and anticipated similar position by the LA City Council), focus had to be shifted to potential remaining LTE sites. However, no request has been made for Motorola to redesign the backhaul, but a request for an impact report from the potential loss of sites has been made.
	2d. Rights of Way	98	The Authority has completed geotechnical investigation on most of its sites and additional sets of site plans are being submitted weekly to the building department.
	2e. Construction Permits and Other Approvals	46	The Authority has begun to encounter resistance from LA County local 1014. We have witnessed increased firefighter presence at some of our outreach efforts in February and by the end of March.
	2f. Site Preparation	90	Variance from baseline plan resulted from union issues, delayed rights of way and site access agreements. The remaining sites requiring geotechnical drilling is just over 6 out of the required 166.
	2g. Equipment Procurement	61	NTP's have been issued for 25 in-vehicle routers for SOT, 75 TMR cabinets, and backhaul equipment for 79 sites. To date, we have received inventory on the following equipment: 125 eNodeB, 125 battery backup cabinets, 33 generators, 44 ATS cabinets, 747 antennas, 26 monopoles (15 monopoles and 11 hose towers), 150 Power Protection Cabinets, 1 primary EPC and 1 redundant EPC
	2h. Network Build (all components - owned, leased, IRU, etc)	29	There are 54 sites with deployed equipment.
	2i. Equipment Deployment	29	RAN equipment for two sites have been deployed. The EPC is installed and operational.
	2j. Network Testing	0	The Authority has not begun any system testing.
	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).

Permanent power/meter to locations. LA-RICS is working with Motorola to facilitate the process of securing delivery of new commercial power to sites. The environmental team is also reviewing Environmental Assessments for commercial power designs outside of the polygon.

For COW locations, site visits will be made to determine availability of commercial power.

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)

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	0	The Authority has not acquired or leased any new miles 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	The Authority has not leased any existing miles during this period.
Number of new wireless links	0	The Authority has not installed any new or upgraded wireless links during this period.
Number of new towers	28	A total of sixteen (16) 70 feet monopoles were erected and twelve (12) 70 foot hose towers were erected at fire stations. This represents a total of twenty-eight (28) towers that have been erected to date.
Number of new and/or upgraded interconnection points	0	The Authority has not installed any new or upgraded connections points during this period.

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	The final count of Community Anchor Institutions will be reported after the network design has been made final.
	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).**

The project is expected to make significant progress in sites construction and equipment procurement and deployment until the action by the County Board of Supervisors to stop construction on County fire stations. The City of LA is expected to make the same action next month regarding City fire stations. Planned progress will be delayed by these actions.

COMMUNITY OUTREACH. To secure necessary endorsement and support of stakeholders, LA-RICS has a customized approach/strategy for each site. Sites have been categorized into four neighborhood types: residential, commercial, mixed, and rural. Sites in residential and mixed neighborhoods will receive Type 1 outreach (focus on residents) whereas sites in commercial and rural neighborhoods will receive Type 2 outreach (focus on business). These approaches will be adjusted accordingly, depending on the type of feedback received from local and county officials.

**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	32	The NTIA and NOAA placed the project under suspension on April 3, 2015. LA-RICS submitted the required Corrective Action Plan (CAP) on April 13, 2015 for the suspension to be reviewed and lifted.
2b.	Environmental Assessment	95	Based on discussions with NTIA through April 15, 2015, LA-RICS will submit two supplemental EAs for sites that were previously contemplated in the Supplemental EA, and route mods 03 and 04. We anticipate finalizing Section 106 requirements during this period.
2c.	Network Design	99	The Corrective Action Plan has redefined the PSBN at 67 sites + 15 Cells on Wheels (COW) sites. This redefined PSBN will still require additional Site Access Agreements from independent cities and agencies or Boards. Our planning process is complete regarding site selection with further input on COW locations.
2d.	Rights of Way	99	The redefined PSBN still requires 17 additional Site Access Agreements and an MOU with Caltrans and the California Office of Emergency Services.
2e.	Construction Permits and Other Approvals	60	The Authority expects all Building Permit applications to be submitted by the end of April or early May.
2f.	Site Preparation	90	There are few sites that still require geo-technical drilling. Some rooftop and existing towers require the finalization of load studies and structural integrity testing.
2g.	Equipment Procurement	80	Notices To Proceed have been issued for 25 in-vehicle routers for SOT, 75 TMR cabinets, and backhaul equipment for 79 sites.
2h.	Network Build (all components - owned, leased, IRU, etc.)	30	The Authority, if the CAP is accepted, plans on resuming construction immediately on all approved Baseline PSBN Sites. The expectation is that the Authority will complete approximately 15 sites a month during the period.
2i.	Equipment Deployment	45	The Authority will continue to deploy equipment as sites are completed according to the CAP response.
2j.	Network Testing	99	If the CAP is approved, the Authority will begin the process of Special Operations Testing during the end of this period.
2k.	Other (please specify):	0	N/A

**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 BTOP program can help by approving the Corrective Action Plan submitted and lifting the suspension for the project to proceed.

### 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	\$13,297,104	\$2,685,484	\$10,611,620	\$12,572,795	\$7,740,982	\$4,831,813	\$18,215,893	\$8,619,687	\$9,596,206
b. Land, structures, right-of-ways, appraisals, etc.	\$73,597,901	\$37,780,781	\$35,817,120	\$4,007,005	\$4,007,005		\$4,007,005	\$4,007,005	
c. Relocation expenses and payments									
d. Architectural and engineering fees	\$16,360,786	\$1,543,236	\$14,817,550	\$10,638,315	\$1,125,046	\$9,513,269	\$12,285,112	\$1,205,414	\$11,079,698
e. Other architectural and engineering fees									
f. Project inspection fees									
g. Site work									
h. Demolition and removal									
i. Construction							\$8,154,007		\$8,154,007
j. Equipment	\$113,368,574	\$20,394,864	\$92,973,710	\$13,108,157		\$13,108,157	\$23,933,810	\$330,480	\$23,603,330
k. Miscellaneous	\$1,270,000	\$850,000	\$420,000				\$3,135,738		\$3,135,738
<b>l. SUBTOTAL (add a through k)</b>	\$217,894,365	\$63,254,365	\$154,640,000	\$40,326,272	\$12,873,033	\$27,453,239	\$69,731,565	\$14,162,586	\$55,568,979
m. Contingencies									
<b>n. TOTALS (sum of l and m)</b>	\$217,894,365	\$63,254,365	\$154,640,000	\$40,326,272	\$12,873,033	\$27,453,239	\$69,731,565	\$14,162,586	\$55,568,979

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