

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570158	3. DUNS Number 962696089
--	---	--

4. Recipient Organization

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

5. Current Reporting Period End Date (MM/DD/YYYY) 06-30-2014	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> 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 Arnaldo de la Paz	7c. Telephone (area code, number and extension) 3238818318
	7d. Email Address arnaldo.delapaz@la-rics.org

7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 08-22-2014
---	--

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 During this quarter, the build out of the LA-RICS Public Safety Broadband Network (PSBN) continued and reached 29% completion of phase 1, the system design phase. LA-RICS issued to Motorola Solutions, Inc. Notices to Proceed for additional detailed design services for Additive Alternate 1-Home Subscriber Server and Additive Alternate 2-Redundant Evolved Packet Core. The contractor was also authorized to proceed with planning and non-site mobilization work related to phase 2, site construction. However, no construction activity will be conducted until all required NEPA and other approvals have been obtained.

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	6	The Project Management and Work Plan was completed 100%. It consists of 13 subplans covering areas such as Resource Planning, Documentation Control, and Communications. The LTE system Integrated Master Schedule was also completed 100%. Also completed were working draft NEPA documents, delivery of project descriptions, CEQA exempt sites (post Public Comment period). On May 28, 2014, the LA-RICS Board adopted the proposed funding plan that will cover the operating costs of the Land Mobile Radio and Long Term Evolution systems.
2b.	Environmental Assessment	92	The LTE Biological Assessment (BA) was completed and submitted to US Fish and Wildlife Service (USFWS) for informal consultation. Review comments were received, and responses to comments and well as BA revisions were provided to USFWS. LA-RICS also submitted its draft Environmental Assessment and received initial comments back from the US Forest Service, and draft responses to comments were developed. The FCC 620 Form template was revised and production process was revamped with support from Jacobs Environmental to continue consultation with California State Historic Preservation Office (SHPO).
2c.	Network Design	68	Motorola submitted Initial drafts of design documents including System Detailed Design, eNodeB Antenna and Line of Site (LOS) Survey Set, Backhaul LOS Path Profiles, and LTE Construction Drawing Template. The LA-RICS technical team has completed reviewing these drafts and have provided comments back to Motorola. The review included detailed documentation covering how the PSBN system will be installed, configured, and tested. The core system design is 100% complete while the backhaul system is 40% complete. The Inventory Management Subsystem Design is 67% complete.
2d.	Rights of Way	80	Right of Entry (ROE). For the independent cities, ROE permits have been completed for Arcadia, Bell Gardens, Covina, Downey, Long Beach, Manhattan Beach, Pomona, Southgate, Torrance, and Vernon. These ten cities cover a total of 28 sites. There are ten cities that do not require a ROE permit to conduct core drills: Alhambra, Azusa, Baldwin Park, Beverly Hills, Burbank, Compton, Culver City, Diamond Bar, El Monte, City of Industry. Site Access Agreement (SAA) The SAA with the City of Industry was approved. There are 15 SAAs out for review by the cities. The LA-RICS Board approved the site access agreements with the County of Los Angeles and will present it to the County Board of Supervisors for approval in July. The site access agreements for sites owned by the City of Los Angeles will be presented to their city council in Aug, 2014.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2e.	Construction Permits and Other Approvals	10	Received on June 18, 2014, State Historic Preservation Officer (SHPO) approval for 105 sites proposed for geotechnical boring, under condition that no construction or ground-breaking activity will be conducted pending execution of a Memorandum of Agreement or completion of Section 106 of the National Register of Historic Places. Activities for FAA Determination findings continued and resulted to 199 sites having been reviewed and determined, with 4 sites in the circularization process, and 23 sites are still work-in-progress.
2f.	Site Preparation	53	221 sites have been walked to identify potential equipment locations. Sketches of each site have been created to identify primary and alternate locations for the placement of towers, cabinets, and generators. 219 sketches have been submitted and 174 sketches have been approved. The process is that upon approval of a site sketch, a site survey follows. To-date, 143 sites have been surveyed.
2g.	Equipment Procurement	5	Initial orders were placed for approximately 90-150 sites for standard equipment such as EPC components, Network Management Systems, eNodeB components, antennas, and associated accessories. No orders were placed for microwave equipment.
2h.	Network Build (all components - owned, leased, IRU, etc)	0	Pending FONSI
2i.	Equipment Deployment	0	Pending FONSI
2j.	Network Testing	0	Pending
2k.	Other (please specify):	0	None

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).
 N/A

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	Zero miles of microwave backhaul will be in place over the next quarter. In August, the final backhaul design parameters will be available from which the projected number of microwave miles will be calculated. It is estimated that 675 new network miles will be deployed when the project is completed.
New network miles leased	0	N/A
Existing network miles upgraded	0	Although currently at zero miles, it is estimated that 303 existing network miles will be upgraded.
Existing network miles leased	0	Although currently at zero miles, it is estimated that 48 existing network miles will be leased..
Number of miles of new fiber (aerial or underground)	0	N/A
Number of new wireless links	0	N/A

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Number of new towers	0	No new towers will be completed during the next quarter but when the project is completed, 180 new monopoles and 1 new lattice tower will be built.
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 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	When completed, the PSBN is capable of providing service to the following CAIs: 915 schools, 121 medical and healthcare providers, 420 public safety entities, 9 community colleges, 1 institution of higher education, 14 community support organizations. Total estimated CAI is 1,480.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	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).

During the next quarter, LA-RICS looks forward to the NTIA completing its environmental assessment of the proposed LTE sites and issuing a Finding of No Significant Impact (FONSI).

<p>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).</p>			
	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	10	<p>After FONSI is issued, LA-RICS can begin site construction activities and placing orders for microwave equipment.</p> <p>On August 13 an updated schematic backhaul design will be completed for review by the Authority. The backhaul design will utilize backhaul solutions previously presented and fine-tuned by both the design/builder and the Authority. It will be the basis of the formal and final design. The final design will provide connectivity to all PSBN sites through a hybrid of microwave and fiber. The microwave solution will utilize both new and existing links while the fiber deployment will include commercial and private (Member Agency – owned) links.</p> <p>The overall project plan will be completed once the final backhaul design is submitted and approved in August.</p>
2b.	Environmental Assessment	97	<p>Conclude ESA Section 7 informal consultation with USFWS. Complete the final EA incorporating all federal agencies' EA review comments. Continue SHPO consultation and the submittal of FCC 620/621 Forms to California SHPO for review and concurrence.</p>
2c.	Network Design	100	<p>All system design activities are expected to be completed 90-100% while site design activities will continue on 45 sites.</p> <p>The final list of potential sites is expected by mid-August which will have all previous Authority design review comments incorporated. This site list will determine the network design because it will be the universe of sites and will also dictate the routing of the backhaul design. The specifics on how the traffic will be routed within the paths will not be finalized until all sites are confirmed.</p>
2d.	Rights of Way	90	<p>Right of Entry. The ROE for the City of Monrovia is expected to be completed. There are 10 ROEs that are currently under review by city attorneys, many of which are expected to be completed.</p> <p>Site Access Agreement. The SAA for the City of Diamond Bar is expected to be executed, while that of the City of Gardena will be presented to their city council. The L.A. County site access agreements will be fully executed by mid-August and the site access agreements by all City of L.A. sites will be executed by September 1. The remaining independent city site access agreement process will be completed without any impact to the project master schedule with the final agreements anticipated no later than the end of January, 2015.</p> <p>Site surveys (inclusive of geo-technical boring) will continue through September and possibly as late as November as the final Right to Enter and/or Site Access Agreements are received and SHPO concurrence is received. A significant number of site surveys will be completed by the end of August to insure that when construction begins in mid-September that construction operations will be able to commence and continue without any loss to schedule as all remaining site surveys are completed.</p>
2e.	Construction Permits and Other Approvals	80	<p>All County and City of L.A. sites are exempt from the zoning process. The remaining Independent City sites will have zoning activities on-going through the end of the year. An expedited permit process has been agreed to with the County and City which will allow for building permits within three to four days from submission of each set of plans. Independent City plan review and permitting will take longer and will be in process starting in July and August and completing in the first quarter of 2015 with no impact to the project schedule. There are several Independent Cities who agreed to expedite the process for LA-RICS sites.</p> <p>Outreach efforts will continue through August and September as zoning meetings and presentations take place at independent cities or other locations as necessary.</p>
2f.	Site Preparation	100	<p>Review and approval of site sketches will continue and be followed by site walks/surveys.</p>

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2g.	Equipment Procurement	60	<p>The first equipment order (approximately 35 sites) was placed in July and will see equipment arriving in late August. The next equipment order will be placed mid to late August with subsequent equipment orders placed every few weeks until all equipment has been ordered.</p> <p>The order for towers will continue through the next several months as batches of sites are released for construction. Factory pre-orders are in place and in August the next batch of towers will be released for production and delivery. Fabrication and delivery of each order will take approximately three to four weeks.</p>
2h.	Network Build (all components - owned, leased, IRU, etc.)	35	<p>Civil construction activities will begin on a site by site basis. During the next quarter: No new network miles will be deployed. No CAIs will be served Broadband Wholesalers or Last Mile Providers is not applicable for this project.</p>
2i.	Equipment Deployment	35	Deployment of PSBN components will start on a site by site basis.
2j.	Network Testing	0	Pending
2k.	Other (please specify):	0	None

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).

During the next quarter when expenditures will pick up, the BTOP program can assist LA-RICS maintain its revolving cash by expediting processing of drawdown requests, especially when equipment procurement and site construction activities begin.

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	\$7,181,812	\$5,872,483	\$1,309,329	\$8,199,238	\$6,481,624	\$1,717,614
b. Land, structures, right-of-ways, appraisals, etc.	\$73,597,901	\$37,780,781	\$35,817,120	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$16,360,786	\$1,543,236	\$14,817,550	\$6,060,533	\$860,181	\$5,200,353	\$6,889,232	\$991,218	\$5,898,015
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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
j. Equipment	\$113,368,574	\$20,394,864	\$92,973,710	\$0	\$0	\$0	\$5,814,676	\$0	\$5,814,676
k. Miscellaneous	\$1,270,000	\$850,000	\$420,000	\$0	\$0	\$0	\$0	\$0	\$0
l. SUBTOTAL (add a through k)	\$217,894,365	\$63,254,365	\$154,640,000	\$13,242,345	\$6,732,664	\$6,509,682	\$20,903,146	\$7,472,842	\$13,430,305
m. Contingencies									
n. TOTALS (sum of l and m)	\$217,894,365	\$63,254,365	\$154,640,000	\$13,242,345	\$6,732,664	\$6,509,682	\$20,903,146	\$7,472,842	\$13,430,305

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
---	--------------------------------