

**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
<b>4. Recipient Organization</b>  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>  09-30-2014	<b>6. Is this the last Report of the Award Period?</b>  <input type="radio"/> Yes <input checked="" type="radio"/> No	
<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>		
<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>  11-12-2014	

**Project Indicators (This Quarter)**

**1. Please describe significant project accomplishments completed during this quarter (600 words or less).**  
 System Design Activities (97% Complete). Core system design is 100% complete. The backhaul system is 90% complete. The Inventory Management Subsystem Design is on a separate development track which is 100% complete as of this period.  
  
 System Design Review (71% Complete). System Design Review consists of the submittal and presentation of the detailed design and the incorporation of Authority edits. The primary system detail design was submitted and the official design review was completed. During this reporting period, Motorola submitted the revised Detailed Design Document, which incorporates the Authority's comments.

**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	7	Phase 1. System Design is 71% complete. On September 8, 2014 the Authority issued Notice To Proceed (NTP) 4 to proceed with Work related to Supply Public Safety Broadband Network (PSBN) Components under Phase 3 for Additive Alternate No. 1a Home Subscriber Server (HSS). Notice To Proceed for Phase 2, Site Construction and Site Modification for Additive Alternate No. 1a Home Subscriber Server (HSS) is anticipated within the next two weeks. Additionally, Motorola is awaiting the Notice to Proceed for Additive Alternative 2 Redundant Evolved Packet Core (Redundant EPC). An Amendment and Notice To Proceed for Phase 4 PSBN Implementation is anticipated to be approved by the Board in the next reporting period to keep the program on schedule.
2b.	Environmental Assessment	80	LA-RICS prepared the draft Final Environmental Assessment (EA), awaiting finalization of the Programmatic Agreement (PA) with the State Historic Preservation Office (SHPO) to document the completion of the Section 106 process in the Final EA. By end of quarter, 143 FCC 620 forms had been submitted and consultation was ongoing with SHPO regarding completion of the 620 process and the finalization of the PA. Consultation with federal land management agencies is ongoing for the use of the four sites on federal lands.  Percent complete for this effort has been rolled back from 92 percent to 80 percent to reflect continued SHPO consultation and supplemental effort associated with further NEPA consultation with federal land management agencies for four proposed sites on federal land and potential project optimization elements (i.e. updates in backhaul and system design, etc.).
2c.	Network Design	75	LA-RICS defined equipment for each site and completed design and installation of the Evolved Packet Core at LA County Fire Command and Control Facility (FCCF). The remaining network design aspects are finalization of the backhaul design, although each site has some form of connectivity.
2d.	Rights of Way	85	Site access approvals and or Right of Entry agreements are required to perform site walks and site surveys for the remaining sites consisting of Independent Cities' facilities and specified County properties that require parcel owner agreements. State Historical Preservation Office (SHPO) approval is required prior to conducting any geotechnical/geological site surveying work. The geotechnical survey is required to develop a tower foundation design.
2e.	Construction Permits and Other Approvals	38	Activities for this task include the FAA Determination findings, Geotechnical/Geological site surveying reports, Construction Drawings, Zoning package submittals and Building Permit package submittals. As of this reporting period 212 sites have been reviewed and determined by the FAA, 1 site is determined as an Obstruction, and 18 sites are still

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			work in progress. 47 geotechnical/geological surveys and reports have been started with 158 remaining. 26 sites do not require the survey due to the use of an existing structure.
	<b>2f. Site Preparation</b>	73	Activities for this task include site walks, site surveys, and geotechnical/geological site surveying authorization. As of this reporting period 222 sites have been walked to identify potential equipment locations. The total number of site walks will exceed the original 232 site list due to several site changes. Sketches of each site have been created to identify primary and alternate locations for the placement of towers, cabinets, and generators. 220 sketches have been delivered to the Authority for review and a total of 197 sketches have been approved. Upon completion of a site sketch approval, a site survey is conducted. 185 sites have been surveyed as of this reporting period. 22 sites are on hold for design work pending outreach. 10 sites have been removed. 16 sites are at new locations and will start the design process over. 85 sites in total have Authority requested changes to the antenna support structure.
	<b>2g. Equipment Procurement</b>	10	LA-RICS has provided NTPs for equipment and site civil construction materials for 75 sites.
	<b>2h. Network Build (all components - owned, leased, IRU, etc)</b>	5	The Evolved Pocket Core at FCCF was installed starting in July and consisted of two phases. Phase one was to install and hook system up, phase two is the optimization of the core. Install was completed within two weeks of start and the optimization is on-going and will complete in mid November.
	<b>2i. Equipment Deployment</b>	0	No equipment has been deployed at this time
	<b>2j. Network Testing</b>	0	No testing has been performed
	<b>2k. Other (please specify):</b>	0	N/A

**3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).**

The backhaul design has taken longer than anticipated due to geographical challenges associated with microwave and line of site surveys discovering more microwave blockages than originally anticipated. We have resolved all of the line of site issues and have progressed the design to the point where final connectivity using fiber or other means are being determined and finalized. The final backhaul design will not occur until we have confirmation of the balance of independent cities that will remain in the program and determination of all final site locations. This will take at least a few more months to obtain all final information that could affect final backhaul design.

**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)
<b>New network miles deployed</b>	0	It is estimated that 675 new network miles will be deployed when the project is completed.
<b>New network miles leased</b>	0	N/A
<b>Existing network miles upgraded</b>	0	Although currently at zero miles, it is estimated that 303 existing network miles will be upgraded.
<b>Existing network miles leased</b>	0	Although currently at zero miles, it is estimated that 48 existing network miles will be leased.
<b>Number of miles of new fiber (aerial or underground)</b>	0	N/A
<b>Number of new wireless links</b>	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	The final count of Community Anchor Institutions will be reported after the network design has been made final.

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).

LA-RICS anticipates the NTIA to issue a Finding of No Significant Impact (FONSI) during the next quarter.

Construction can start on multiple sites and as groups of sites complete, the process of system testing will begin and backhaul

connections will be made as the network is built out.  
 No new network miles or community anchor institutions are expected to be added next quarter.

**2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).**

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	18	Additional independent cities will be added to the permitting process and we will finalize the process of getting sites approved for use in the program. Once we know the final site count, including all participating independent cities, the final equipment orders can be placed and the final stage of backhaul design can be formalized and completed.
2b.	Environmental Assessment	98	PA anticipated in early October, and FONSI anticipated in mid-October. Provide supplemental support for federal agency-administered sites, and any follow-on environmental work required as a result of Special Award Conditions (SAC) items (i.e. any additional NEPA work required by those agencies). Complete the Section 106 process with SHPO.
2c.	Network Design	93	There will likely still be some Site Access Agreements being negotiated with Authority members which would likely impact backhaul design and coverage.
2d.	Rights of Way	95	To-date, 164 Rights of Entry and 91 Site Access Agreements were executed; 78 outreach activities were conducted, and 104 sites released for Geotech drilling.
2e.	Construction Permits and Other Approvals	75	Applications for building permits will be on-going with batches of permits submitted weekly until the process completes in mid 2015.
2f.	Site Preparation	85	Projection based on current plan for receipt of permits
2g.	Equipment Procurement	40	Additional procurement will be based upon receipt of pending Site Access Agreements and final backhaul design.
2h.	Network Build (all components - owned, leased, IRU, etc.)	5	The Evolved Pocket Core at FCCF was installed starting in July and consisted of two phases. Phase one was to install and hook system up, phase two is the optimization of the core. Install was completed within two weeks of start and the optimization is on-going and will complete in mid November
2i.	Equipment Deployment	20	Dependent upon progress of construction permits and other approvals and site preparation.
2j.	Network Testing	0	None yet.
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).**

Technical assistance from the BTOP program may be useful by approving the award action request LA-RICS will submit for the removal of the reimbursement-only policy to enable funds to be drawn in advance in anticipation of increased spending when construction starts.

