ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identification Number	3. DUNS Number
Department of Commerce, National Telecommunications and Information Administration	NT10BIX5570158	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)	6. Is this the last Annual Report of the Award Period?
12-31-2015	○ Yes ◉ 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	7c. Telephone (area code, number and extension)
Gina Samy	1323881825
	7d. Email Address
Fiscal Officer	Gina.Samy@la-rics.org

7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):
Submitted Electronically	02-25-2016

OVERALL PROJECT PERFORMANCE INDICATORS

1. Please provide the following average cost figures for your project. Please review the instructions to determine how to calculate these figures. Write "0" in the second column and "N/A" in the third column if your project does not yet have this information. Depending on whether your project contains Middle Mile and/or Last Mile components, some metrics may not apply. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Cost Indicator	Average Cost / Speed	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Average cost per new mile (Middle Mile)	0	N/A
Average cost per household passed (Last Mile)	0	N/A
Average cost per subscriber (Last Mile)	0	N/A
Maximum broadband speed advertised (Middle Mile)	0	N/A
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	0	N/A
Average broadband speed provided (Last Mile)	0	N/A

2. Please provide each facility name and type, the county where the facility is located, and census tract information for any facilities funded by your project during this annual reporting period. Report only facilities for which construction has been completed.

Facility Identifier / Name	Facility Type	County	Census Tracts
N/A	N/A	N/A	N/A

Add Facility	Remove Facility

3. Please identify (1) the total number of interconnection, peering, and/or transit agreements entered into during this annual reporting period; (2) the total number of agreements of each type that you are currently negotiating; and (3) whether you have denied any request for interconnection and if so, why. If you have not entered into any agreements, please write "N/A."

Interconnection Agreements (600 words or less)

The Authority has integrated PSEN connections with LACoFD and LA County Sheriff's Department. We intend to connect all Member Agency PSENs to our Core. As of now, there are no peering or transit agreements.

Peering and Transit Agreements (600 words or less)

N/A

CAPACITY, UTILIZATION, AND CAPABILITY INDICATORS

4. Community Anchor Institutions: In the chart below, please provide information on the types of community anchor institutions capable of receiving service (i.e., anchor institutions connected to your network plus those passed by your network) as a result of BTOP funds.

Type of Community Anchor Institution	Total Number Within Service Area	Type of Community Anchor Institution	Total Number Within Service Area
Schools (K-12)	0	Public Housing	0
Libraries	0	Other Institutions of Higher Education	0
Medical and Healthcare Providers	0	Other Community Support Organizations	0
Public Safety Entities	606	Other Government Facilities	0
Community Colleges	0	Total Community Anchor Institutions	606

5. Please indicate the average increase in broadband speed provided to the community anchor institution customers as a result of your project, including a description of how this increase was calculated (600 words or less).

The CAIs served by LA-RICS are only able to experience the increased speed and service of the network once they have installed the required equipment or connect their PSEN to the LA-RICS Core. Most of these intuitions have yet to do so.

6. What retail services are being provided by this project? Please describe below. (600 words or less). As an attachment to this report, please provide pricing plans (in $ per month) associated with each retail service. Retail services description:

The Authority has not released a cost structure to the public for subscriber services. It plans to do so in the next fiscal year.

7a. What network management policies (e.g., bandwidth limitations, traffic prioritization) are in place for the services provided by your project? 7b. Have you ever limited or blocked consumers from accessing any lawful content, service, service provider, or application, or prevented any consumers from attaching any legal device to the network? If so, please explain why (300 words or less)?
Currently, there are no processes in place that address the limiting of bandwidth to users or access. However, we did explore bandwidth limiting processes during the Rose Parade to ensure throughput for video devices. Threshold parameters were input to monitor usage and control/manage the available capacity.

8. If applicable, please provide the total number and the percentage of subscribers who have dropped the broadband service provided through this project (total number of households and/or businesses and the "churn rate") and the subscribers' reasons for discontinuing their service (600 words or less).
N/A

9. Please provide the following information regarding the number of fiber strand-miles:

Total Number of Strand-miles	Total Number of Active Fiber Strand-miles Used by Recipient	Total Number of Leased Fiber Strand-miles	Total Number of Dark Fiber Strand-miles	Total Number of Strand-miles Being Built		
				Active	Leased	Dark
0	0	0	0	0	0	0

10. If you wholesale dark fiber, please list your wholesale customers and the number of fiber miles you currently are leasing to those customers:
N/A

11. Please provide the following information regarding the facility collocation capacity:

Total Facility (total square feet for all facilities)	Number of Square Feet Used by Recipient	Number of Square Feet Leased	Number of Square Feet Available
0	0	0	0

12. If you do not own collocation space, please describe how and where other network providers and/or customers interconnect with your network (600 words or less).

The Authority has exercised an Memorandum of Understanding with LA County Fire Department for utilization of their Fire Command and Control Facility to house the LA-RICS Core. This is a no-cost lease and is expected to continue.

13. To the extent that you have made any subcontracts or sub grants, please provide the number of subcontracts or sub grants that have been made to socially and economically disadvantaged small business (SDB) concerns as defined by section 8(a) of the Small Business Act, 15 U.S.C. 647, as modified by NTIA's adoption of an alternative small business size standard for use in BTOP. Please also provide the names of these SDB entities (150 words or less).

The Authority has not made any agreements where this code would apply.

14. Please describe any best practices/lessons learned that can be shared with other similar BTOP projects (900 words or less).

Set up processes for environmental clearance hurdles. Clearly identify sites early in the process and ensure that the environmental process is flexible enough to allow for construction oriented changes.

Communicate extensively with political organizations. Organize and document all outreach activities, both political and community driven.

Be familiar early with implementation vendor's contracting process.

Be cognizant of site selection and constructability issues. If a site is in close proximity to residential neighborhoods, alternatives need to be explored.

Vetting project partners is critical for success.

Key Lessons Learned During Preparations for the 2016 Rose Parade Special Operations Test:
• PSBN communication plan must be in alignment with Los Angeles County Sheriff Department and Los Angeles County Fire Department operational plans including Pasadena Fire Department and Police Department radios be programmed to include LA-RICS Rose Parade talk groups.
• Plan for contingency coverage options such as developing and staging a LA-RICS Cell on Wheels (COW) in order to provide Public Broadband Safety Network (PSBN) service where coverage is lacking.
• Prior to event, verify coverage at all critical sites (coverage from Verdugo Peak was critical to service at Camp 2 but was not available) and ensure PSBN coverage areas in and around the parade location to be more accurately mapped out.
• Provide self training materials for devices and applications as well as ample time be given to programming, training for and deploying PSBN end user devices such as tablets and smartphones (at least two months prior to the parade)
• Plan and implement consistent and meaningful naming conventions for users
• Optimize Video applications prior to start of events
• Device provisioning was a challenge and software and process issues must be resolved far in advance of deployment
• Additional reporting capabilities are needed including near real time information, user "location", and utilization levels
• Need to determine bandwidth limitations on VML-750s.
• Ensure Network Operating Center (NOC) is able to support all technologies utilized (Long Term Evolution (LTE), Land Mobile Radio (LMR) and local applications)

15. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide an updated list of Community Anchor Institutions (CAIs) that you have connected and plan to connect to your network.

16. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide a list of community pairs that are receiving new or improved broadband service as a result of BTOP grant funds.

17. Please provide up-to-date network route maps in a single file, in a Google Earth compatible format (e.g., KMZ file).