

RECIPIENT NAME:Executive Office of the State of Mississippi

AWARD NUMBER: NT10BIX5570094

DATE: 04/20/2017

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2015

ANNUAL 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 NT10BIX5570094	3. DUNS Number 019202949
4. Recipient Organization Executive Office of the State of Mississippi 550 High Street Stillers Building Suite 1900, Jackson, MS 39201-1113		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2016	6. Is this the last Annual 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	7c. Telephone (area code, number and extension)	
	7d. Email Address	
7b. Signature of Certifying Official	7e. Date Report Submitted (MM/DD/YYYY):	

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)	\$12,247.34	1,344 new miles completed through the end of 2013 which included the installation of equipment for 73 new network links in Phase 2C, 2D and 3. The cost associated with the installation of the microwave equipment is \$16,460,430 which equates to \$12,247.34 average cost per new mile.
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)	over 10 mbps	<p>On May 11, 2012, NTIA determined it was necessary to partially suspend, the LTE-related components of Mississippi's BTOP grant until Mississippi was able to secure long term access to the spectrum from FirstNet. Mississippi was unable to reach an agreement which would allow for a sustainable statewide public safety broadband network.</p> <p>At the time of the grant suspension, the majority of the LTE network had been deployed to 135 Mississippi Wireless Information Network (MSWIN) tower sites across the state. Mississippi used a portion of BTOP grant funds to upgrade its existing MSWIN microwave backbone network to a greater bandwidth to accommodate the broadband network.</p> <p>Mississippi was allowed to finalize its capacity upgrade to the microwave backbone and continue the scheduling and installation of land mobile radios until December 31, 2013.</p> <p>The MSWIN microwave network is complete and currently in use by 32,000 first responders statewide for emergency communication needs.</p> <p>The MSWIN Microwave network has the capacity to transport data up to 300 mbps however, due to the lack of necessary spectrum, the State is primarily using the network for Land Mobile Radio communications.</p> <p>Due to the inability to obtain spectrum for the use of the Mississippi LTE Network and the upcoming expiration of the original BTOP grant (September 2015), Mississippi had no choice but to commence with and finalize the deconstruction of the statewide LTE network.</p> <p>On September 30, 2015, via Continuing Resolution, Congress extended the BTOP program to September 2020. The State submitted a formal grant modification request to NTIA to use the remaining BTOP funds to improve public safety communications focusing on three components - the Mississippi Tele-Assist System, the Integrated Public Safety Communications Center, and mission critical data for public safety which has been approved by NTIA. The State's grant award has been extended until June 30, 2020.</p>
Maximum broadband speed advertised (Last Mile)	N/A	N/A

Average broadband speed provided (Middle Mile)	over 10 mbps	<p>On May 11, 2012, NTIA determined it was necessary to partially suspend, the LTE-related components of Mississippi's BTOP grant until Mississippi was able to secure long term access to the spectrum from FirstNet. Mississippi was unable to reach an agreement which would allow for a sustainable statewide public safety broadband network.</p> <p>At the time of the grant suspension, the majority of the LTE network had been deployed to 135 Mississippi Wireless Information Network (MSWIN) tower sites across the state. Mississippi used a portion of BTOP grant funds to upgrade its existing MSWIN microwave backbone network to a greater bandwidth to accommodate the broadband network.</p> <p>Mississippi was allowed to finalize its capacity upgrade to the microwave backbone and continue the scheduling and installation of land mobile radios until December 31, 2013.</p> <p>The MSWIN microwave network is complete and currently in use by 32,000 first responders statewide for emergency communication needs.</p> <p>The MSWIN Microwave network has the capacity to transport data up to 300 mbps however, due to the lack of necessary spectrum, the State is primarily using the network for Land Mobile Radio communications.</p> <p>Due to the inability to obtain spectrum for the use of the Mississippi LTE Network and the upcoming expiration of the original BTOP grant (September 2015), Mississippi had no choice but to commence with and finalize the deconstruction of the statewide LTE network.</p> <p>On September 30, 2015, via Continuing Resolution, Congress extended the BTOP program to September 2020. The State submitted a formal grant modification request to NTIA to use the remaining BTOP funds to improve public safety communications focusing on three components - the Mississippi Tele-Assist System, the Integrated Public Safety Communications Center, and mission critical data for public safety which has been approved by NTIA. The State's grant award has been extended until June 30, 2020.</p>
Average broadband speed provided (Last Mile)	N/A	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)

N/A

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	14
Medical and Healthcare Providers	90	Other Community Support Organizations	1
Public Safety Entities	242	Other Government Facilities	20
Community Colleges	14	Total Community Anchor Institutions	381

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).

Mississippi used a portion of BTOP grant funds to deploy a microwave backbone network in regions of the state which has provided new access to mission critical data for emergency responders. The statewide microwave network is complete and currently in use by 32,000 first responders statewide for emergency communication needs. The microwave backbone network has the capacity to transport data up to 300 mbps and is currently being used by community anchor institutions for limited data applications.

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:

N/A

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)?

7a. Traffic prioritization is in accordance with the State's license for use of the 700 MHz spectrum.

7b. No

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).

N/A

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).

N/A

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

1. The State deployed its LTE network using existing infrastructure (towers, etc) which had met all EHP requirements and approvals. This allowed the State to deploy the LTE network in a timely, expedient manner.

2. The demand for mission critical public safety data communications is very high as are the expectations of the types of applications which will be available to the public safety community once a dedicated data network for public safety is available. The availability of funds necessary to subscribe to these types of services are very limited which will limit the public safety users that will be able to benefit from a LTE network. The pricing structure of service plans will be very important in determining the success of a public safety data network which allows all public safety users access to data and data sharing.

3. Partnering with third parties is crucial in the sustainment of a dedicated public safety data network.

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).