



North Carolina Department of Public Safety

State Highway Patrol

Roy Cooper, Governor
Erik A. Hooks, Secretary

Glenn M. McNeill, Jr.
Commander

MEMORANDUM

To: Chairs of Joint Legislative Oversight Committee on Justice and Public Safety

From: Erik A. Hooks, Secretary, Department of Public Safety
Glenn M. McNeill, Jr., Commander, State Highway Patrol *GHM*

Subject: VIPER Quarterly Report

Date: December 1, 2019

Pursuant to Session Law 2016-94, Section 17B.1, The Department of Public Safety shall report annually no later than March 1 and quarterly thereafter to the chairs of the Joint Legislative Oversight Committee on Justice and Public Safety on the progress of the State's VIPER system.

Network Status - 241 total sites planned for statewide coverage of which 227 sites are constructed and on-the-air representing 94% completion. A total of six sites are underway but are waiting on the resolution of leases or completion of site construction. Four (4) additional sites have been identified for construction in the FY19/20 budget year. Four (4) sites will still require funding after this fiscal year. 126,845 users are currently on the VIPER Network consisting of more than 182 Federal, State and County emergency responding agencies. This quarter gain represented over 2,600 additional user radios.

SUA Status - VIPER is currently operating the most recent software, Release 7.17. The Legislature provided \$1.5M non-recurring for the Service Upgrade Assurance (SUA) program, which allowed VIPER to enter into a nine (9) year agreement with Motorola to provide a long-term SUA contract with subsequent system upgrades scheduled every three (3) years. This contract has a defined, recurring funding appropriation of \$1.5M from the Legislature, which began July 1, 2019.

New Tower Construction Progress - Four (4) new sites have been identified for new construction. These four (4) sites are located in Johnston, Sampson, Anson, and Clay Counties. The site slated for Newton Grove (Sampson County) will replace the current Newton Gove site where the tower lease has expired and will not be renewed. VIPER is also rebuilding three (3) sites in Chinquapin (Duplin County), Jacksonville Onslow County, and Laurinburg (Scotland County) that sustained significant damage during Hurricane Florence.

MAILING ADDRESS:
4231 Mail Service Center
Raleigh, NC 27699-4231
www.ncdps.gov
www.ncshp.org



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Fax: (919) 715-4059

Other Significant Projects:

- **GTR upgrade-** The end of life (EOL) has been reached for the current Quantar Base Stations and additional funds are needed to purchase replacement GTR Base Stations prior to the cancellation of product support scheduled for 31 December 2018. The anticipated cost for replacement of the Quantar Base Stations at the 187 affected sites is \$28,500,530. This, like the SUA upgrade represents the most critical of VIPER's current needs. Through S.L. 2018-5, we were provided \$8.7M for the GTR base station upgrade this fiscal year. All GTR replacement equipment funded from our FY18/19 appropriation has been installed. VIPER will still require an additional \$19,800,530 to complete the upgrade of the remaining Quantar stations statewide. It is important to note that the EOL for the Quantar base stations was 31 December, 2018. As a result, Quantar station replacement remains a critical need for VIPER. The Legislative budget includes \$18M over the biennium for the replacement of Quantar base stations with the newer GTR platform equipment.
- **MOSCAD-** VIPER has completed the transition to its new network monitoring system replacing the previous MOSCAD technology. This allows VIPER to continue to monitor power, HVAC, tower lighting, fuel levels and generator operational time periods from a central location.
- **Microwave Upgrade-** Finally, VIPER operates a statewide microwave network in conjunction with the University of North Carolina. This network utilizes T1 technology (circuit based) which has been the national standard for connectivity for over 50 years. With the transition over the Ethernet and the ability to manage bandwidth needs more efficiently, the Manufacturer (Alcatel) will no longer support our current MDR-8000 microwave radios past the end of CY2021. This will require the state to seek funding to replace the current microwave radios beginning in FY2021 and extending through FY2024. The anticipated funding requirement for the replacement of the microwave radios is \$18,000,000 and would be split equally across the four fiscal years at \$4,500,000 per year.