



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

BUREAU OF ENGINEERING  
SUITE 700, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 741-0791

JOHN C. SCHROER  
COMMISSIONER

BILL HASLAM  
GOVERNOR

TO: Greg Duncan  
Assistant Chief Engineer of Operations

FROM: Brad Freeze, Director of Traffic Operations

SUBJECT: **Proprietary Item Request and Justification  
Cleveland Utilities and City of Cleveland  
Opticom GPS Preemption Equipment**

The Cleveland Utilities and City of Cleveland are requesting that the Opticom GPS Preemption equipment be used in the signalization component of projects within the City of Cleveland's control and maintenance over the next three years where Federal and/or State funding is used. This request is based on the necessity for the synchronization with the existing traffic signal system operated and maintained by the City. The following are justifications for this request:

- 1) The City of Cleveland currently has 21 intersections equipped with the Opticom GPS Preemption equipment and has programed all 21 intersection controllers to preempt the signals from any approach. In addition, the City has seven other intersections where other type preemption equipment is installed and they have planned to convert that equipment to the GPS model. Being able to utilize this equipment on new projects will help with the coordination of the operation and maintenance of all these intersections.
- 2) The Cleveland Fire Department has equipped most of their engines, ladder trucks, and hazmat vehicles with the Opticom GPS equipment and are also exploring preemption on other department vehicles. Being able to specifically use the Opticom equipment will further enhance the preemption capability within the City.

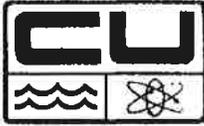
I, Brad Freeze, Director of TDOT Traffic Operations, do hereby certify that in accordance with the requirements of 23.CFR 635.411(a)(2) that the patented or proprietary items listed above are essential for the synchronization of existing facilities.

Assistant Chief Engineer of Operations

Date

Cc: Jeff C. Jones, TDOT Assistant Chief Engineer of Design  
Mike Tugwell, TDOT State Traffic Engineer  
Danny Lane, TDOT H.Q. Materials & Test Division  
Tad Bacon, Cleveland Utilities

Recommended for Approval



Cleveland Utilities

August 8<sup>th</sup>, 2014

Mr. Pete Falkenberg, P.E.  
Civil Engineering Manager  
Design Division of TDOT  
James K. Polk Building, Suite 1300  
Nashville, TN 37243

Re: Request for Proprietary Traffic Signal Products Certification  
City of Cleveland – Opticom GPS Preemption

Dear Mr. Falkenberg:

Cleveland Utilities and the City of Cleveland would like to request a proprietary product certification for Opticom GPS preemption equipment. The City of Cleveland currently has 21 intersections equipped with Opticom GPS and Cleveland Utilities has programmed all 21 intersections to preempt the signals from any approach. Seven Opticom IR intersections will be phased out over the coming years and converted to the GPS model.

The Cleveland Fire Department has equipped most of their engines, ladders, and hazmat vehicles with Opticom GPS and the City is exploring preemption use by other departments. A central software system has also been installed that keeps detailed logs on the use and maintenance of the system.

Cleveland Utilities requests that all projects inside the City of Cleveland that use federal or state funds include the Opticom GPS preemption equipment to provide full synchronization with the existing infrastructure.

Thank you for your consideration of this request,

Tad Bacon  
Cleveland Utilities  
Traffic Signals Coordinator  
tbacon@clevelandutilities.com  
(423) 478-9397