



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

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JOHN C. SCHROER
COMMISSIONER

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GOVERNOR

TO: Chuck Rychen
Assistant Chief Engineer of Operations

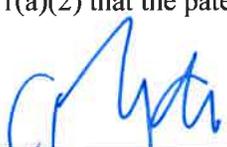
FROM: Brad Freeze, Director of Traffic Operations

**SUBJECT: Proprietary Item Request and Justification
Cleveland Utilities and City of Cleveland
Cisco IE 3000-4TC Industrial Ethernet Switch**

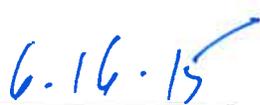
The Cleveland Utilities and City of Cleveland are requesting that the Cisco IE 3000-4TC Industrial Ethernet Switch and the PWR-IE3000-AC Plug be used in the signalization component of projects within the City of Cleveland's control and maintenance over the next three years where Federal and/or State 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 justification items for this request:

- 1) This communications equipment is necessary at intersections where the job calls for an interconnection or communications between the central computer and the other traffic signals and is utilized in Cleveland where the ATC 1000 control is installed.
- 2) Cleveland Utilities stocks the Cisco Ethernet switch and associated items to have for troubleshooting and maintenance. Having this one brand of switch instead of having multiple brands ensures faster and easier repair times along with ensuring compatibility and synchronization with existing equipment.

I, Brad Freeze, Director of TDOT Traffic Operations, do hereby certify that in accordance with the requirements of 23 CFR 6356.411(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
Director of Traffic Operations



Cleveland Utilities

August 8th, 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 – Cisco IE 3000-4TC Industrial Ethernet Switch

Dear Mr. Falkenberg:

Cleveland Utilities and the City of Cleveland would like to request a proprietary product certification for the Cisco IE-3000-4TC industrial Ethernet switch and the PWR-IE3000-AC Plug. This communications equipment is necessary for jobs that call for an interconnect or communications between the central computer and other traffic signals.

The Ethernet switch should be required at all intersections utilizing the ATC 1000 controller. The older generation controllers do not have Ethernet capability. A compatible serial modem should be installed with the 3000E controller.

Cleveland Utilities stocks the Cisco Ethernet switch and associated items for future signal growth and troubleshooting. Having one switch ensures compatibility and synchronization with the existing equipment and provides for faster repair times.

Thank you for your consideration of this request,

Tad Bacon
Cleveland Utilities
Traffic Signals Coordinator
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(423) 478-9397