



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**BUREAU OF ENGINEERING**  
SUITE 700, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 741-5017

**JOHN C. SCHROER**  
COMMISSIONER

**BILL HASLAM**  
GOVERNOR

**TO:** Gregory M. Duncan, Assistant Chief Engineer of Operations  
**FROM:** Brad Freeze, Director of Traffic Operations  
**SUBJECT:** Proprietary Item Request and Justification  
Mt. Juliet Traffic Signal Controller Request

The City of Mt. Juliet is requesting to specify Peek traffic signal controllers to be used in the signalization component of projects within Mt. Juliet's control and maintenance over the next 3 years using federal or state funds. This request is based on the necessity for the synchronization with the existing traffic signal system managed by the City. The following are justification items for this request:

- 1) Operation Majority: Of the total 23 signalized intersections maintained by the city, 65% (15 intersections) operate using Peek traffic signal controllers.
- 2) Full Synchronization along corridor: The eight intersections within the project limits operate using Peek traffic signal controllers. In the fall of 2012, the City purchased and replaced three existing Eagle traffic controllers with Peek along the project corridor to provide full synchronization.
- 3) Maintenance and Technical Training: The City of Mt. Juliet's signal technicians have been extensively trained to maintain, program, and trouble shoot Peek traffic signal controllers. Allowing the purchase of Peek controllers will help minimize repair time when failures occur.

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.



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Assistant Chief Engineer of Operations

3-14-14  
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  
Marlin Keel, Director of Public Works/City Engineer, City of Mt. Juliet



# City of Mt. Juliet

## Public Works Department

January 27, 2014

Brad Freeze, Director  
Traffic Operations Division  
Suite 300, James K. Polk Building  
505 Deaderick Street  
Nashville, TN 37243

**RE: Proprietary Item Request and Justification  
Peek Traffic Signal Controllers and Related Component Items**

**Project Information:**

**S.R. 171 (Mt. Juliet Road) Signal System  
From Graves Crossing to Pleasant Grove Road  
Federal Project No.: STP-M-171(28)  
State Project No.: 95LPLM-F3-033  
State PIN: 119203.00  
Contract: 130199**

Dear Mr. Freeze,

The City of Mt. Juliet is requesting a proprietary certification to specify Peek traffic signal controllers and related component items such as conflict monitors and software on City of Mt. Juliet signal projects for the next three (3) years.

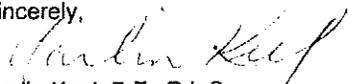
Justification for this request is based on the following:

- 1) **Current Operation Majority:** The City of Mt. Juliet currently maintains a total of 23 traffic signalized intersections. Of those, 15 intersections operate using Peek traffic signal controllers (65%) and eight intersections operate using Eagle traffic signal controllers (35%).
- 2) **Communications, Full Synchronization, and Integration of the Existing Facilities:** The City of Mt. Juliet currently has Peek traffic signal controllers located at all eight signalized intersections within the project limits. In the Fall of 2012, the City purchased and replaced three existing Eagle traffic controllers along the project corridor with Peek traffic signal controllers in order to provide communications, full synchronization, and integration of the existing facilities.
- 3) **Maintenance and Technical Training:** The City of Mt. Juliet's signal technicians have been extensively trained in the maintenance, programming, and trouble shooting of Peek traffic signal controllers. When a traffic signal controller malfunctions, it is important to the City that our trained staff be able to respond and provide solutions promptly in order to reduce the traffic signal controller's downtime.

Thank you for considering this request in our effort to better serve the public with increased safety and efficiency through normal operations and maintenance activities.

After your review, if you have any questions, please feel free to contact me at 615-773-7957 or at

Sincerely,

  
Marlin Keel, P.E., R.L.S.  
Director of Public Works/City Engineer  
City of Mt. Juliet