

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
PROPRIETARY PRODUCT CERTIFICATION

630-020-07  
SPECIFICATION  
08/14

To: Mario Bizzio, P.E.  
Design Engineer

Date: 1/18/2018

Financial Project ID: 442547-1-93-01 New Const.  RRR   
Federal Aid Number: N/A  
Project Name: Procurement of Signal Performance Metric (SPM) Equipment for Osceola County  
State Road Number: N/A Co. / Sec. / Sub.: Osceola County  
Begin Project MP: N/A End Project MP: N/A  
Full Federal Oversight: No  Yes  Note: If Yes, submit to FHWA Director.

A justification and all supporting documents must be attached to this document.  
Mark the appropriate certification:

"I, Joedel Zaballero, Traffic Operations Engineer, of the Osceola County Transportation & Transit  
Print Name of Initiator Position Title Name of Agency

do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2),  
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.  
 that no equally suitable alternative exists for this patented or proprietary item."

Joedel A. Zaballero 1/18/2018  
Signature Date

For Department Use Only

"I, JAMES S. STROZ, JR., DTOE  
Print Name Position Title

of the Florida Department of Transportation, do hereby approve this certification request made in accordance with the  
requirements of 23 CFR 635.411(a)(2),  
Mark appropriately (choose only one option):

- that this patented or proprietary item is essential for synchronization with existing highway facilities.  
 that no equally suitable alternative exists for this patented or proprietary item."  
Identify any conditions and limitations:

James S. Stroz, Jr. 1/22/18  
Signature Date

# Transportation & Transit Department



January 18, 2018

Mario Bizzio, P.E. – District 5 Design Engineer  
Florida Department of Transportation  
719 South Woodland Boulevard  
DeLand, FL 32720

RE: **Justification for Use of Proprietary Products for Traffic Signal and ITS Equipment  
by Osceola County – FPID: 442547-1-93-01**

**Tawny Olore, PE**  
Executive Director

**Joedel Zaballero, PE,**  
PTOE  
Traffic Engineering

**Mary Moskowitz, AICP**  
Transportation Planning

Dear Mr. Bizzio:

Osceola County Transportation & Transit Department requests the approval of the attached Proprietary Product Certification Form No. 630-020-07, completed in accordance with Proprietary Products Review and Certification Procedure 630-020-005-a, adopted August 20, 2014, for the following proprietary products:

- Econolite, Cobalt TS2-2 ATC Controller with Ethernet – NEMA TS2

This equipment is being requested for replacement of legacy traffic signal controllers in the Osceola County area. Approving this proprietary product is required for consistency with the County's existing traffic signal systems and will prevent the need for supplemental training and synchronization efforts. Further justification for the use of this proprietary product has been provided below.

#### Function

- The Osceola County operates Econolite's Centracs ATMS central control software from the Osceola County Traffic Management Center (TMC). Econolite traffic signal controllers are required to function with this software system.
- The Cobalt ATC controller is the most recent addition to Econolite's line of traffic signal controllers. Use of this controller will support future connected vehicle and automated traffic signal performance metric data collection functionality, which are goals of the County and FDOT District 5.
- The County's ITS communication network utilizes Ethernet at the Data-link layer; therefore, Ethernet communications is a requirement of traffic signal controllers.

**Osceola County**

1 Courthouse Square • Kissimmee, Florida 34741

### Logistics

- Econolite's traffic signal controller are utilized throughout Osceola County. County staff is familiar with the maintenance and operations of these traffic signal.
- The County's Centracs ATMC central software system requires Econolite traffic signal controllers.

### Lifecycle

- The City of Kissimmee, who maintains signals in the County, and Osceola County maintains spare Econolite traffic signal controllers. Use of Econolite traffic signal controllers will allow for timely repair and replacement of failed or damaged components.
- The County exclusively uses Econolite traffic signal controllers for new traffic signals and upgrades of existing traffic signal controllers and has found that the equipment performs well over extended periods of use.

### Training


- Since Econolite traffic signal controllers are used throughout the County, maintenance and operations personnel have extensive experience with this equipment. No additional training will be required.

### Synchronization

- Consistency in the traffic signal system is critical due to limited Osceola County and City of Kissimmee resources and staff. Use of the Econolite traffic signal controller allows both agencies to leverage significant sunk cost in training, lessons learned, software, and spare components.
- Osceola County operates Econolite's Centracs ATMS central control software from the Osceola County TMC. Econolite traffic signal controllers are required to function with this software system
- The Econolite Cobalt ATC controllers are capable of fulfilling the automated traffic signal performance metric data collection goals of FDOT District 5, which will support the District's Integrated Corridor Management, Decision Support System, and Data Fusion initiatives.

In summary, Osceola County is requesting approval for the use of the aforementioned proprietary product listed in this document.

Sincerely,



Joedel Zaballero

Traffic Operations Engineer

Osceola County Transportation & Transit

Attachment: Proprietary Product Certification Form No. 630-020-07

cc: File



Financial Project ID: 442547-1-1-93-01

Federal Project Number: N/A

Name of Initiator: Joedel Zaballero P.E., Traffic Operations Engineer Osceola County

ITEM	Patented or Proprietary Item is Essential for Synchronization with Existing Highway Facilities	No Equally Suitable Alternative Exists for this Patented or Proprietary Item	APPROVED	NOT APPROVED	IN SEMP
Econolite, Cobalt TS2-2 ATC Controller with Ethernet – NEMA TS-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



James S. Stroz, Jr, P.E.

District Traffic Operations Engineer