STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PROPRIETARY PRODUCT CERTIFICATION

630-020-07
SPECIFICATION
08/14

To: Mario Bizzio, P.E.
Design Engineer

Date: 01/12/2018

Financial Project ID: 442544-1-93-01 New Const. ☒ RRR ☐
Federal Aid Number: N/A
Project Name: Procurement of Signal Performance Metric (SPM) Equipment for City of Orlando.
State Road Number: N/A Co. / Sec. / Sub.: Orange 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, Benton StJ Bonney, PE (Print Name of Initiator), Transport (Position Title), of the City of Orlando (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."*

Digitally signed by Benton StJ Bonney, PE
DN: cn=Benton StJ Bonney, PE, o=City of Orlando, ou=Transportation Engineering Division, email=benton.bonney@cityoforlando.net, c=US
Date: 2018.01.31 18:02:24 -05'00'

Signature , January 31, 2018 *Date*

For Department Use Only

"I, JAMES S. STROZ, JR. *Print Name*, DTOE *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:

Signature , 2/1/18 *Date*

CITY OF ORLANDO

January 31, 2018

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

Subject: **Justification for Use of Proprietary Products for Traffic Signal and ITS Equipment by City of Orlando – FPID: 442544-1-93-01**

Dear Mr. Bizzio,
The City of Orlando Transportation Engineering Division 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:

- Trafficware Group, Wired Cabinet Assembly TS2 Size 6 with Trafficware Group TS2-1 ATC Controller with Ethernet — NEMA TS2
- Trafficware Group, TS2-1 ATC Controller with Ethernet – NEMA TS2

This equipment is being requested for replacement of legacy traffic signal controllers and cabinet assemblies in the Orlando area. Approving these proprietary products is required for consistency with the City of Orlando'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 City of Orlando operates Trafficware's ATMS.now central control software from the City of Orlando TMC. Trafficware traffic signal controllers are required to function with this software system.
- The Trafficware Group ATC controller is the most recent addition to Trafficware's line of traffic signal controllers. Use of this controllers will support future connected vehicle and automated traffic signal performance metric data collection functionality, which are goals of the City and FDOT District 5.
- The Trafficware Group TS2 Size 6 — NEMA TS2 cabinet is manufactured by Trafficware and is verified to be compatible with the Trafficware Group ~~TS2-2~~ TS2-1 ATC Controller.
- The City of Orlando's ITS communication network utilizes Ethernet at the Data-link layer; therefore, Ethernet communications is a requirement of traffic signal controllers.

Aesthetics

- The design of the Trafficware TS2 Size 6 cabinet is consistent with other City of Orlando traffic signal controller cabinets recently deployed.

Logistics

- Trafficware traffic signal controllers and cabinets are utilized throughout the City of Orlando. City staff is familiar with the maintenance and operations of these traffic signal controllers and controller cabinets.
- The City's ATMS.now central software system requires Trafficware traffic signal controllers.

Lifecycle

- The City maintains spare Trafficware cabinets and parts. Use of Trafficware traffic signal controllers and controller cabinets will allow for timely repair and replacement of failed or damaged components.
- The City exclusively uses Trafficware traffic signal controllers and has found that the equipment performs well over extended periods of use.

Training

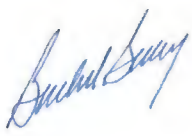
- Since the City solely uses Trafficware traffic signal controllers, maintenance and operations personnel has extensive experience with this equipment. No additional training will be required.

Synchronization

- Consistency in the traffic signal system is critical due to limited City resources and staff. Use of the Trafficware traffic signal controller and controller cabinets allows the City to leverage significant sunk cost in training, lessons learned, software, and spare components.
- The City of Orlando operates Trafficware's ATMS.now central control software from the City of Orlando TMC. Trafficware traffic signal controllers are required to function with this software system
- The Trafficware 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, the City of Orlando is requesting approval for the use of the aforementioned proprietary products listed in this document.
Sincerely,

Benton StJ Bonney, PE
Transportation Systems Engineer



Digitally signed by Benton StJ Bonney, PE
DN: cn=Benton StJ Bonney, PE, o=City of Orlando, ou=Transportation Engineering Division, email=benton.bonney@cityoforlando.net, c=US
Date: 2018.01.31 18:14:18 -05'00'

Financial Project ID: 442544-1-93-01

Federal Project Number: N/A

Name of Initiator: Benton StJ Bonney P.E., Transportation Systems Manager City of Orlando

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
Trafficware Group, Wired Cabinet Assembly TS2 Type 6 with Trafficware Group ~~TS-1~~ ATC Controller with Ethernet – NEMA TS2	☒	☐	☑	☐	☒

TS2-1

James S. Stroz, Jr, P.E.

District Traffic Operations Engineer