Mr. Tom Church  
Cabinet Secretary  
New Mexico Department of Transportation  
PO Box 1149  
Santa Fe, NM 87507

Dear Secretary Church:

The Federal Highway Administration, New Mexico Division Office, has reviewed the New Mexico Department of Transportation’s (NMDOT’s) Certification of Proprietary Products pertaining to signalization and street lighting material for projects LC00140 and LC00120 in Las Cruces.

The Certification establishes that the referenced signalization and lighting systems and the equipment cited therein are to be used on both projects and components are essential for synchronization with the existing systems on the City of Las Cruces’ system inventory.

In accordance with 23 CFR 635.411 and the supporting information provided in the request, it is hereby acknowledged and approved specifically for these projects. As established in Guidance on Patented and Proprietary Products a sunset provision must be established in order to assess changes in market conditions, technologies and re-examine the need for specifying proprietary products. Actions may be approved to extend the sunset as justified accordingly. As such the sunset established for this specific project action is four (4) years from date of this memo as noted in your letter.

The equipment while proprietary in nature as identified in the Certification request must conform to the Buy America requirements as it is part of a Federal aid highway project.

If you have any further questions, feel free to contact Mr. Max Valerio (505)820-2035 or at max.valerio@dot.gov.

Sincerely yours,

Max Valerio, P.E.
Field Operations Engineer

For: J. Don Martinez  
Division Administrator

cc:
Mr. Anthony Lujan, NMDOT
Mr. Armando Armendariz, NMDOT
Mr. Elias Archuleta, NMDOT
Mr. Trent Doolittle, NMDOT
Ms. Sally Reeves, NMDOT
Mr. Michael Smelker, NMDOT
Mr. Jesus Sandoval, NMDOT
November 2, 2016

Mr. J. Don Martinez  
Division Administrator  
Federal Highway Administration  
New Mexico Division  
4001 Office Court Suite 801  
Santa Fe, NM 87507

Re: Certification 23 CFR 635.411(a)(2) Certification – Request for Sole Source / Propriety signalization equipment and street lighting material, CN LC 00140 and CN LC 00120

Dear Mr. Martinez,

NMDOT is currently completing lighting signal agreements with the City of Las Cruces for multiple projects within the City limits, which is currently in the approval process, and do not anticipate any issues with completing these agreement.

The City of Las Cruces has requested Certification for Sole Source / Propriety for the signalization equipment and street lighting material. The City of Las Cruces has provided Sole Source Request Letter and Product equipment list for traffic signal and street lightings for your review and approval.

The cost incurred by purchasing and integrating traffic signal control equipment other than that listed by the City of Las Cruces signal systems are unknown, because the cost per signalized intersection of using other equipment cannot be readily calculated. However, City of Las Cruces has determined that the use of this equipment is essential to insure the proper operation and synchronization of their existing signal traffic systems. The cost to utilize the aforementioned items results in less expensive cost to City of Las Cruces by standardization of equipment for increased cost efficiencies through reduced timelines to abate equipment malfunctions and for contractors to install these items.

In accordance with 23 CFR 635.411(a)(2), that the above particular and proprietary products is necessary for synchronization within the existing facilities. Synchronization is based on the function of the proprietary product that is necessary for the satisfactory operation of the existing facility, and logistics the proprietary product is interchangeable with products in the City of Las Cruces maintenance inventory as described above.

I Michael Smelker, Assistant South Regional Manager of New Mexico Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), that this patented and proprietary items are essential for synchronization within the existing highway facilities, and considered the synchronization of the system to be in the public interest.
The extent of the Certification is for CN LC 00140 and LC 00120 signalization project at the intersection of US 70 / 17th street and US 70 / Solano Ave will be owned and maintained by the City of Las Cruces. City of Las Cruces request the extent of the Certification to extended beyond this project, therefore request a sunset date of four years.

I appreciate you taking your time for this consideration, if you should have any questions please feel free to contact me. I can be reached at 575-202-3339 or via email at michaelj.smelker@state.nm.us.

Sincerely,

Michael Smelker, PE
Assistant Regional Manager
NMDOT South Region Design

Attachments:  CLC Sole Sources Request Letter for NMDOT
               CLC approved product equipment list for traffic signal and street lighting
September 21, 2016
STO-17-010

Ms. Sherri Holliefield, P.E., Project Development Engineer
NMDOT-SRD
750 N. Solano
Las Cruces, NM 88001

Subject: REQUEST FOR SOLE SOURCE/PROPRIETY SIGNALIZATION EQUIPMENT AND STREET LIGHTING MATERIAL

Dear Ms. Holliefield,

Please provide your blanket approval to use federal funding when the New Mexico Department of Transportation (NMDOT) is furnishing the materials and equipment listed in this letter.

A. Traffic Signal Control and Street Lighting Equipment: The traffic signal control equipment requested as a sole source/proprietary are:

1. Econolite Controllers
2. Econolite Controller Cabinets
3. Econolite Signal Heads

The street light poles requested as a sole source/proprietary are:

1. All poles installed on project to be Hapco
2. All luminaires to be Cree

Detailed list including model number attached.

Factors considered in selecting this equipment include:

1. System Expansion: The Traffic Engineering section of the City of Las Cruces (City) is responsible for the operation and maintenance of traffic control devices including 121 traffic signals and approximately 8,000 street lights within the city including traffic control devices on the NMDOT highway system. All capital construction projects including new installation or replacement of traffic control devices should be considered as a system expansion and interconnected with the existing city network and signal system.
to allow City’s staff to maintain and operate without new trainings and stocking of additional types of materials/equipment.

2. Maintenance: All of the controllers and signal heads in the City are manufactured by Econolite. Because of this, the City’s inventory of spare parts is geared primarily towards Econolite equipment and using Econolite products can avoid project delays due to fabrication, delivery, testing, operational unit programming, modifications, and retesting requirements. In addition, volume purchase benefits the City due to typical project small quantities. The City signal maintenance staff have attended regular trainings provided by the Econolite or 3rd party training providers at least once a year in order to properly operate and maintain the system.

Similarly, all of LED luminaires (approximately 2,000 Cree LED fixtures installed and 2,500 Cree LED fixtures will be installed within three months) in the City are manufactured by Cree except approximately 200 LED fixtures that were installed as a pilot program. Because of this, the City’s inventory of spare luminaires is geared primarily toward Cree LED luminaires. The majority of the street light poles (approximately 95% poles among 8,000 poles) in the City are manufactured by Hapco. Selecting a different manufacturer would require a considerable investment in reworking the City’s inventory of spare parts to gear toward a new manufacturer.

3. Compatibility: The City currently operates Econolite traffic management software, which controls most signals throughout the city. The specified sole source items are unique in the ability to:

- Implement signal coordination through the traffic management software.
- Connect to and allow interchangeability of existing controllers.
- Connect to NMDOT system.

The City currently utilizes Cree LED luminaires and Hapco aluminum street light poles throughout the city. The specified sole source items are the only ones that can:

- Match existing luminaires installed throughout the city.
- Match existing poles installed throughout the city.

4. Safety, Efficiency and Benefit: The FHWA Highway Safety Improvement Program discusses the proven effectiveness and long recognized benefits that effective signal coordination has on the quality of traffic flow. Signal coordination generates measurable safety benefits through platooning and improved operation of turning movements. This minimizes stops, keeps speeds more consistent and provides adequate gaps resulting in conflict and crash reduction. In addition, travel times improve and stopped delays are reduced which reduces emissions.
Ms. Sherri Holliefield  
August 1, 2016  
Page 3

The combined benefit of compatibility, maintenance, safety and efficiency far outweigh the cost of incorporating different components already used by the City.

If you have any questions, feel free to contact me at (575) 541-2566.

Respectfully,

SooGyu Lee, P.E.  
Traffic Operations Engineer

cc: David Maestas, P.E., Transportation Director  
Willie Roman, P.E., PTOE, Street & Traffic Operations Administrator
CITY OF LAS CRUCES
TRAFFIC SIGNAL AND STREET LIGHTINGS
APPROVED PRODUCTS LIST

I. TRAFFIC SIGNAL EQUIPMENT

CONTROLLERS

NEMA TS1 CONTROLLERS
Econolite ................................................................. ASC/3-2100
Cobolts ................................................................. COBZ211202210000

NEMA ON-STREET MASTER CONTROLLER
Econolite ................................................................. ASC/2M – MA 2000010S0

CABINETS AND BACK PANELS (NEMA & S.S. PRETIMED)

NEMA CABINET AND BACK PANEL ASSEMBLIES
Econolite ................................................................. CAB16721 (55")
Econolite ................................................................. CAB17125 (55" Railroad)
Econolite ................................................................. CAB17127 (48")

CABINET RISERS
Econolite ................................................................. P-riser SK3050P1-19 (55")
Econolite ................................................................. M-riser SK3051P1-19 (48")

POWER SUPPLY FOR CARD RACK DETECTORS - NEMA
Econolite ................................................................. PS200-E

16-CHANNEL DETECTOR RACK
Econolite ................................................................. 34030G2

PREEMPTION
3M .................................................................................... 78-8113-4700-0, 752 Phase Selector
3M .................................................................................... 76-1000-1054-0, 754 Phase Selector
Global Traffic Technologies(GTT) ...................................... 76-1000-1054-0, 754 Phase Selector
Opticom ............................................................................ 78-8095-3852-9 (Detector)

CONFLICT MONITORS

NEMA CONFLICT MONITORS
Econolite ................................................................. MMU2-16LEIP-E
## CABINET ACCESSORIES

### FLASHERS
- **MODEL**: 810-E  
  Eberle Design Incorporated (EDI)

### FLASH TRANSFER RELAYS
- **MODEL**: 21XBXPL  
  Struthers-Dunn

### LOAD SWITCHES
- **MODEL**: 510-E  
  Eberle Design Incorporated (EDI)

### SURGE PROTECTORS
- **MODEL**: ITCF 12060-RJ  
  Eaton

## DETECTORS

### PEDESTRIAN PUSH BUTTONS
- **MODEL**: PPB Bulldog BDL3-B  
  Polara Engineering
- **MODEL**: PPB Bulldog BDPM3-B (Adaptor)  
  Polara Engineering

## SIGNAL HEADS

### BACKPLATES
- **MODEL**: E1692P43-14 (3 section)  
  Econolite
- **MODEL**: E8265P45-14 (5 section)  
  Econolite

### HARDWARE
- Pelco products

### LOUVERS
- **MODEL**: GPL-GL-100  
  Pelco

### SIGNAL HEADS
- **MODEL**: TP31HJF20000 (3 section, black)  
  Econolite
- **MODEL**: TP55HJF2000 (5 section, black)  
  Econolite

### PEDESTRIAN HEAD
- **MODEL**: SG75Z20CIBBFIO-02  
  Siemens

### PEDESTRIAN LED SIGNAL INDICATION
- **MODEL**: PS7-CFF1-VLA  
  GE
CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

POSTS AND MAST ARMS

STEEL POSTS AND MAST ARMS
Union Metal ........................................................................................................ Refer to NMDOT website

TYPE 1 PEDESTRIAN POLE, ALUMINUM

Pelco ........................................................................................................... PB-5100-10-PNC (10’x4’)
Pelco .......................................................................................................... PB-5100-12-PNC (12’x4’)
Pelco .......................................................................................................... PB-5100-15-PNC (15’x4’)
Pelco .......................................................................................................... PB-5100-5325-PNC (3 piece adaptor)
Pelco ..................................................................................................... PB5334-15-GL-PNC (base)

CAMERA MOUNT EXPANSION, ALUMINUM

Pelco .................................................................................................... SE-0494-120 (10’x2”)
Pelco .................................................................................................... SE-04840-70(6’x1-1/2”)
Pelco .................................................................................................... AB-3040-45-PNC (Triton Astro bracket)
Pelco .................................................................................................... AB-0163-62-PNC (Astro Mini bracket)
Pelco .................................................................................................... SH-0534 (camera bracket adaptor)

MISCELLANEOUS

LOOP SEALANTS ................................................................................ MODEL
3M ......................................................................................................... 5000, black

SPLICE KITS (DETECTOR LEAD-IN) .................................................. MODEL
3M .......................................................................................................... DBY 6HO3A2

METER SERVICE PEDESTAL w/ BATTERY BACKUP .................................. MODEL
Milbank 120V Signal with 2 –Circuit 240V Lighting w/Battery Backup ...CP3A5111VCAOPBSP1 (white, w/photocell)
Solar School Zone Flashers ................................................................... MODEL
Consolidated Traffic Control ................................................................. PNS10 Series

LIGHT EMITTING DIODES (LED)

PROGRAMMABLE VIEW ........................................................................ MODEL
GE-GELcore .......................................................................................... DR6-RCFB-VLA (Red Ball)
GE-GELcore .......................................................................................... DR6-YCFB-VLA (Yellow Ball)
GE-GELcore .......................................................................................... DR6-GCFB-VLA (Green Ball)
GE-GELcore .......................................................................................... DR6-RTAAW-VLA (Red Arrow)
GE-GELcore ........................................................................................ DR6-YTAAW-VLA (Yellow Arrow)
GE-GELcore ........................................................................................ DR6-GTAAW-VLA (Green Arrow)
PROGRAMMABLE VIEW (Railroad Application)

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<td>3M</td>
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<td>3M</td>
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WARNING BEACONS

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<td>Dialight</td>
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<td>Dialight</td>
<td>JXC-300Y (Grid)</td>
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VIDEO DETECTION SYSTEMS

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<td>Iteris</td>
<td>Vantage Edge2</td>
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II. STREET LIGHTING

LIGHTING POLES

POLES MODEL
Hepco ................................................................. 35’ (commercial), 25’ (residential) Aluminum
Sternberg ............................................................. Decorative lighting, 25’, LED

FOUNDATIONS: Refer to the NMDOT standards drawings

LUMINAIRES

BRACKET ARM MOUNT - 101 WATT MODEL
Cree ................................................................. BXSP-B-HT-3ME-A-40K-UL-SV,
w/factory installed photocell receptacle

SIGN LIGHTING MODEL
Temple Edge-Lit ................................................. Razor Series

CONTROL EQUIPMENT

CONTACTORS-ELECTROMECHANICAL MODEL
Eaton ................................................................. Type OC 1020P4

LIGHTNING ARRESTER MODEL
Eaton ................................................................. TCF 12060-RJ

MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL MODEL
Ripley ............................................................... 926

PHOTOELECTRIC CONTROL MODEL
Tork ................................................................. 5007M

TYPE A CIRCUIT BREAKERS MODEL
Eaton ................................................................. Type OC1020P4

MISCELLANEOUS

AVIATION LIGHTING MODEL
TBA
FUSED Holder
Buchannon

MODEL
82S-ADB1C

TRANSFORMER BASES
Union Metals
### III. SIGNING EQUIPMENT

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<th>MANUFACTURER</th>
<th>DESCRIPTION, MODEL</th>
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<tr>
<td>Temple Edge-Lite</td>
<td>Razor Series, Double faced, mounted on top of master</td>
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<tr>
<td></td>
<td>arms</td>
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