



U.S. Department
of Transportation
**Federal Highway
Administration**

New Mexico Division

July 6, 2017

4001 Office Court Drive
Suite 801
Santa Fe, NM 87507
505-820-2021

In Reply Refer To:
HFO-NM
ENGI 23

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 certain signalization equipment and street lighting material to be used on Federal aid projects in Las Cruces.

The Certification establishes that the referenced equipment cited therein by specific reference 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 this project. 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. Trent Doolittle, NMDOT
Ms. Sally Reeves, NMDOT
Mr. Michael Smelker, NMDOT
Mr. Jesus Sandoval, NMDOT
Mr. Afshin Jian, NMDOT



June 28, 2017

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 within the boundary of the City of Las Cruces city limits.

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.

Susana Martinez
Governor

Tom Church
Cabinet Secretary

Commissioners

Ronald Schmeits
Chairman
District 4

Dr. Kenneth White
Secretary
District 1

David Sepich
Commissioner
District 2

Keith Mortensen
Commissioner
District 3

Butch Mathews
Commissioner
District 5

Jackson Gibson
Commissioner
District 6

The extent of the Certification is for the City of Las Cruces which will be owned and maintained by the City. 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,

A handwritten signature in blue ink, appearing to read "Michael J. Smelker".

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

June 23, 2017

Mr. Arthur Romero, 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 Mr. Romero,

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/Cooper

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.

Mr. Arthur Romero
June 23, 2017
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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: 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

	MODEL
Econolite.....	ASC/3-2100
Cobolts	COBZ211202210000

NEMA ON-STREET MASTER CONTROLLER

	MODEL
Econolite.....	ASC/2M – MA 2000010S0

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

NEMA CABINET AND BACK PANEL ASSEMBLIES

	MODEL
Econolite.....	CAB16721 (55")
Econolite.....	CAB17125 (55" Railroad)
Econolite.....	CAB17127 (48")

CABINET RISERS

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

POWER SUPPLY FOR CARD RACK DETECTORS - NEMA

	MODEL
Econolite	PS200-E

16-CHANNEL DETECTOR RACK.....

	MODEL
Econolite	34030G2

PREEMPTION

	MODEL
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

	MODEL
Econolite	MMU2-16LEIP-E

CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

CABINET ACCESSORIES

FLASHERS	MODEL
Eberle Design Incorporated (EDI).....	810-E
FLASH TRANSFER RELAYS	MODEL
Struthers-Dunn.....	21XBXPL
LOAD SWITCHES	MODEL
Eberle Design Incorporated (EDI).....	510-E
SURGE PROTECTORS	MODEL
Eaton.....	ITCF 12060-RJ

DETECTORS

PEDESTRIAN PUSH BUTTONS	MODEL
Polara Engineering.	PPB Bulldog BDL3-B
Polara Engineering	PPB Bulldog BDPM3-B (Adaptor)

SIGNAL HEADS

BACKPLATES	MODEL
Econolite	E1692P43-14 (3 section)
Econolite	E8265P45-14(5 section)
HARDWARE	
Pelco products	
LOUVERS	MODEL
Pelco.....	GPL-GL-100
SIGNAL HEADS	MODEL
Econolite	TP31HJF20000 (3 section, black)
Econolite	TP55HJF2000(5 section, black)
PEDESTRIAN HEAD	MODEL
Siemens.....	SG75Z20CIBBFIO-02
PEDESTRIAN LED SIGNAL INDICATION	MODEL
GE.....	PS7-CFF1-VLA

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, ALUMIMUM

MODEL

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

MODEL

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)

CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

PROGRAMMABLE VIEW (Railroad Application)

	MODEL
3M	P46-3R33-003 (Red Ball)
3M	P46-3Y33-003 (Yellow Ball)
3M	P46-3G33-003 (Green Ball)

WARNING BEACONS

	MODEL
Dialight	JXC-300DCYL (Solar)
Dialight	433-323-000 (Solar)
Dialight	JXC-300Y (Grid)

VIDEO DETECTION SYSTEMS

VIDEO DETECTOR

	MODEL
Iteris	Vantage Edge2

CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

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	MODEL
Cree	BXSP-B-HT-3ME-B-40K-UH-SV-R, w/factory installed 7 pin receptacle, 480V service, arterial and collector, 106 Watt
Cree	BXSP-B-HT-3ME-B-40K-UL-SV-R, w/factory installed 7 pin receptacle, 240V service, arterial and collector, 101 Watt
Cooper	VERD-A018-D-8-T2-7030/4N7/10K- AP, w/factory installed 7 pin receptacle, 480V service, residential, 60 Watt
Cree	BXSP-B-HT-2ME-A-30K-UL-SV-N- Q9, w/factory installed 7 pin receptacle, 240V service, residential, 54 Watt
Cree	BXSP2-HO-HT-4ME-165W-40K- UH(or UL for 240V)-SV-R, w/factory installed 7 pin receptacle, 480V(or 240V) service, arterial*, 165 Watt
*only selective NMDOT corridors	

SIGN LIGHTING	MODEL
Temple Edge-Lit	Razor Series

CONTROL EQUIPMENT

CONTACTORS-ELECTROMECHANICAL	MODEL
Eaton	Type OC 1020P4

LIGHTNING ARRESTER	MODEL
Eaton	ITCF 12060-RJ

MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL	MODEL
Ripley	5926

PHOTOELECTRIC CONTROL	MODEL
Tork	5007M

TYPE A CIRCUIT BREAKERS	MODEL
Eaton	Type OC1020P4

CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

MISCELLANEOUS

AVIATION LIGHTING

MODEL

TBA

FUSED Holder **MODEL**

Buchannon.....82S-ADB1C

TRANSFORMER BASES

Union Metals

CITY OF LAS CRUCES APPROVED PRODUCT LIST FOR TRAFFIC SIGNAL

III. SIGNING EQUIPMENT

SIGNS

MANUFACTURER	DESCRIPTION, MODEL
Temple Edge-Lite	Razor Series, Double faced, mounted on top of master arms