



Traffic Signals

Material Producer List

Traffic Operations Division – Traffic Management Section

Traffic Signals

The following materials are pre-qualified for use with the Department's *Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges* and are associated with Department Material Specifications (DMS) referenced in Standard Specification Items 680, 681, 682, 685, and 690, which pertain to the installation of highway traffic signals.

Material Producer List (MPL) for DMS-11120, "VEHICLE SIGNAL HEADS"

The following products are pre-qualified for use on projects where vehicle signal heads are furnished or installed as required by the item descriptive code. Signal heads are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor will furnish products that meet the requirements of the plans and specifications.

Vehicle Signal Housings

Manufacturer/Distributor	Model/Number
Chapel Hill Manufacturing	TPY series (12"/Polycarbonate/Yellow)
	TAY series (12"/Aluminum/Yellow)
Econolite	TPY series (12"/Polycarbonate/Yellow)
	TAY series (12"/Aluminum/Yellow)
General Traffic Equipment Corp. (GTE)	T30H-Poly-TxDOT (Polycarbonate/3-section)
	T40H-Poly-TxDOT (Polycarbonate/4-section)
	T50H-Poly-TxDOT (Polycarbonate/5-section)
	T30H-Poly-TxDOT (Aluminum/3-section)
	T40H-Poly-TxDOT (Aluminum/4-section)
	T50H-Poly-TxDOT (Aluminum/5-section)
McCain	MTSTP series (Polycarbonate)
	MTSTA series (Aluminum)
	PT5X-XXXXXXX-TX (Polycarbonate/5-Section)
	AT3X-XXXXXXX-TX (Aluminum/3-Section)
	AT4X-XXXXXXX-TX (Aluminum/4-Section)
	AT5X-XXXXXXX-TX (Aluminum/5-Section)
Mobotrex Distribution (formerly Brown Traffic)	SA series (Polycarbonate w/Internal Hinges)
	SG series (Polycarbonate or Aluminum w/external hinges)

Vehicle Signal Housings

Manufacturer/Distributor	Model/Number
North American Signals	PT3X-XXXXXXX-TX (Polycarbonate/3-Section)
	PT4X-XXXXXXX-TX (Polycarbonate/4-Section)
	PT5X-XXXXXXX-TX (Polycarbonate/5-Section)
	AT3X-XXXXXXX-TX (Aluminum/3-Section)
	AT4X-XXXXXXX-TX (Aluminum/4-Section)
	AT5X-XXXXXXX-TX (Aluminum/5-Section)
Peek Traffic	HSS83E003FO-TxDOT (Aluminum/3-section)
	HSS85E005FO-TxDOT (Aluminum/5-section)
	PSS83E003FO-TxDOT (Polycarbonate/3-section)
	PSS85E005FO-TxDOT (Polycarbonate/5-section)
Trafficware (Engineered by Naztec)	12004 series (Polycarbonate/Yellow)
	2007 series (Aluminum/Yellow)

*Material Producer List (MPL) for
DMS-11121, "TWELVE-INCH LED TRAFFIC SIGNAL LAMP UNIT"*

The following products are pre-qualified for use on the projects where 12 in. (300 mm) light emitting diode (LED) traffic signal lamps are furnished or installed as required by the item descriptive code. LED traffic signal lamp units are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

LED Modules

Manufacturer	Color/Type	Brand Name/Model Number
Dialight	Red Ball	433-1210-003XL (tinted)
		433-1210-003XL15 (tinted)
		433-1270-003XL (clear)
		433-1270-003XL15 (clear)
	Yellow Ball	433-3230-901XL (tinted)
		433-3230-901XL15 (tinted)
		433-3270-901XL (clear)
		433-3270-901XL15 (clear)
	Green Ball	433-2220-001XL (tinted)
		433-2220-001XL15 (tinted)
		433-2270-001XL (clear)
		433-2270-001XL15 (clear)
	Red Arrow	432-1314-001XODTE (tinted)
		432-1314-001XOD15 (tinted)
		432-1374-001XOD15 (clear)
	Yellow Arrow	431-3334-901XODTE (tinted)
		431-3334-901XOD15 (tinted)
		431-3374-901XOD15 (clear)
	Green Arrow	432-2324-001XODTE (tinted)
		432-2324-001XOD15 (tinted)
432-2374-001XOD15 (clear)		
Duralight/Trastar	Red Ball	JXC-300HFTR (tinted)
		JXC300-HFTR03 (tinted)
		JXC300-HFTR04 (tinted)
		JXC300-HFR-C (clear)
	Yellow Ball	JXC-300HFTY02 (tinted)
		JXC300-HFTY03 (tinted)
		JXC300-HFTY04 (tinted)
		JXC300-HFY-C (clear)

LED Modules

Manufacturer	Color/Type	Brand Name/Model Number
Duralight/Trastar	Green Ball	JXC-300HFTG (tinted)
		JXC300-HFTG03 (tinted)
		JXC300-HFTG04 (tinted)
		JXC300-HFG-C (clear)

LED Modules

Manufacturer	Color/Type	Brand Name/Model Number
Duralight/Trastar	Red Arrow	JXJ300-07R03 (clear)
		JXJ300-07R04 (clear)
	Yellow Arrow	JXJ300-07Y03 (clear)
		JXJ300-07Y04 (clear)
	Green Arrow	JXJ300-07G03 (clear)
		JXJ300-07G04 (clear)
Excellence Opto, Inc. (EOI)	Red Ball	TRV-R12SG-D2T (tinted)
	Yellow Ball	TRV-Y12SG-D1T (tinted)
	Green Ball	TRV-G12SG-D2T (tinted)
	Red Arrow	TRA-R12DG-IN (tinted)
	Yellow Arrow	TRA-Y12DG-IN2 (tinted)
	Green Arrow	TRA-G12DG-IN (tinted)
GE Lighting Solutions	Red Ball	DR6-RTFB-77A (tinted)
		DR6-RTFB-VLA-037 (tinted)
	Yellow Ball	DR6-YTFB-77A (tinted)
		DR6-YTFB-VLA-037 (tinted)
		DR6-YZFB-VLA-037 (tinted)
	Green Ball	DR6-GTFB-77A (tinted)
		DR6-GCFB-77A (clear)
		DR6-GCFB-VLA-037 (clear)
	Red Arrow	DR6-RTAAN-17A (tinted)
		DR6-RTAAN-VLA (tinted)
	Yellow Arrow	DR6-YTAAN-17A-YX (tinted)
		DR6-GTAAN-VLA (tinted)
	Green Arrow	DR6-GTAAN-VLA (tinted)
		DR6-GCAAN-17A (clear)

LED Modules

Manufacturer	Color/Type	Brand Name/Model Number
Leotek Electronics	Red Ball	TSL-12R-LX-IL6-A1-P2 (tinted)
		TSL-12R-LX-IL6-A1-P3 (tinted)
		TSL-12R-LX-IL6-A1-P2-CLR* (clear)
		TSL-12R-LX-IL6-A1-P3-CLR (clear)
	Yellow Ball	TSL-12Y-LX-IL6-A1-P2 (tinted)
		TSL-12Y-LX-IL6-A1-P3 (tinted)
		TSL-12Y-LX-IL6-A1-P2-CLR *(clear)
		TSL-12Y-LX-IL6-A1-P3-CLR (clear)
	Green Ball	TSL-12G-LX-IL6-A1-P2 (tinted)
		TSL-12G-LX-IL6-A1-P3 (tinted)
		TSL-12G-LX-IL6-A1-P2-CLR* (clear)
		TSL-12G-LX-IL6-A1-P3-CLR (clear)
	Red Arrow	TSL-12RA-IL6-A1 (tinted)
		TSL-12RA-IL-A1-P3 (tinted)
		TSL-12RA-IL6-A1-CLR (clear)
	Yellow Arrow	TSL-12YA-IL6-A1 (tinted)
		TSL-12YA-IL-A1-P3 (tinted)
		TSL-12YA-IL6-A1-CLR (clear)
		TSL-12YA-IL6-A1-P3-CLR (clear)
	Green Arrow	TSL-12GA-IL6-A1 (tinted)
TSL-12GA-IL-A1-P3 (tinted)		
TSL-12GA-IL6-A1-CLR (clear)		
TSL-12GA-IL6-A1-P3-CLR (clear)		

NOTE: For Leotek LED Modules marked with an asterisk (*), only modules with manufacture date codes of January 2013 or later are approved for use on Department projects.

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11130, "PEDESTRIAN SIGNAL HEADS"**

The following products are pre-qualified for use on the projects where LED optical units for pedestrian signal heads are furnished or installed as required by the plans or item descriptive code. LED optical units for pedestrian signal heads are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

Pedestrian Signal Heads

Manufacturer/Distributor	Model/Number
Chapel Hill Manufacturing	6745 (Aluminum)
	7300 (Polycarbonate)
General Traffic Equipment Corp. (GTE)	P7-EMPTY-*SAM-*GV-TxDOT (Polycarbonate)
	P7-EMPTY-*PO-*GV-TxDOT (Polycarbonate)
	P8-EMPTY-*SAM-*GV-TxDOT (Aluminum)
	P8-EMPTY-*PO-*GV-TxDOT (Aluminum)
	*SAM = Swing Arm Mount (Clamshell) *GV = Grid Visor (Z-Crate) *PO = Ports Open (Unplugged)
McCain	MPA (Aluminum/Drilled/Standard)
	MPP (Polycarbonate/Drilled/Standard)
Mobotrex Distribution (formerly Brown Traffic)	SG7M (Aluminum/Polycarbonate)
	SG7S (Aluminum/Polycarbonate)
North American Signals	PP-XXXOZB-TX (Polycarbonate)
	AP-XXXOZB-TX (Aluminum)
Trafficware (Engineered by Naztec)	12053 (Aluminum/Yellow)
	12056 (Aluminum/Black)
Peek Traffic	4302A (Aluminum)
	4302P (Polycarbonate)

Symbolic LED Optical Units

Manufacturer/Distributor	Model/Number
Cooper Lighting Products	CLP18DFA
Dialight	4306472001
Duralight/Trastar	JXM-300VIA
	JXM-400VIA
GELcore	PS7-CFC1-01A
	PS7-CFC1-26A
Leotek Electronics	7300 (Polycarbonate)
Peek Traffic	LEDP-HMM-002

NOTE: The above Symbolic Pedestrian LED Modules (without an integrated countdown display) are not approved for traffic signals specified on Department projects let March 2013 and after.

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11131, "PEDESTRIAN LED COUNTDOWN SIGNAL MODULES"**

The following products are pre-qualified for use on projects where countdown Symbolic LED optical units for pedestrian signal heads are furnished or installed as required by the plans or item descriptive code. Countdown Pedestrian LED Signal Modules are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

Pedestrian LED Countdown Signal Modules

Manufacturer/Distributor	Model/Number
Dialight	430-6479-001XTE
Duralight/Trastar	JXM400VIEIL
	JXM-400VIEILO1
GE Lighting Solutions	PS7-CFF1-26A-FS
	PS7-CFF1-VLA-037
Leotek Electronics	TSL-PED-16-CIL-P1
	TSL-PED-16-SPC-V1

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11132, "ACCESSIBLE PEDESTRIAN SIGNALS"**

The following products are pre-qualified for use on projects where Accessible Pedestrian Signals are furnished or installed as required by the plans or item descriptive code. Accessible Pedestrian Signals are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

Accessible Pedestrian Signals

Manufacturer/Distributor	Model/Number
Pelco	SP-1055-TX
Polara Enterprises, LLC	iN2 iNavigator
	EN2 EZCOMM Navigator
Campbell Company	WiAAPS
	(Wireless Advisor Advanced Accessible Pedestrian Station)

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11150, "SOLAR POWER FLASHER CONTROLLER ASSEMBLY"**

The following products are pre-qualified for use on the projects where solar power flasher controller assemblies are furnished or installed as required by the plans or item descriptive code. Solar power flasher controller assemblies are subject to testing.

24-Hour Flasher Assembly

Manufacturer	Model/Number	Type
BDesign	BD24-1R-Z1	Single Red Indication
	BD24-2R-Z1	Dual Red Indication
	BD24-1Y-Z1	Single Yellow Indication
	BD24-2Y-Z1	Dual Yellow Indication
	BD24-1R-Z2	Single Red Indication
	BD24-2R-Z2	Dual Red Indication
	BD24-1Y-Z2	Single Yellow Indication
	BD24-2Y-Z2	Dual Yellow Indication
Carmanah	R829-G	Dual Yellow Indication
Chapel Hill	SP24-TX1-1R	Single Red Indication
	SP24-TX1-2R	Dual Red Indication
	SP24-TX1-1Y	Single Yellow Indication
	SP24-TX1-2Y	Dual Yellow Indication
Consolidated Traffic Controls, Inc.	RTC SF24-TX1R	Advance Red Indication
	RTC SF24-TX2R	Advance Red Indication
	RTC SF24-TX1Y	Advance Yellow Indication
	RTC SF24-TX2Y	Advance Yellow Indication
Eltec	S890502	Single Yellow Indication
	S890503	Single Red Indication
	S890505	Dual Yellow Indication
	S890506	Dual Red Indication
	S890507	Dual Yellow Indication
	S890508	Dual Red Indication
Paradigm Traffic, Inc.	AI070-90W-15CAB	Dual Yellow Indication
RTC	TXDCSZ (1 Battery)	Dual Yellow Indication
	TXDC2BATT (2 Battery)	Dual Yellow Indication
Traffic and Parking Control Company, Inc. (TAPCO)	600173 (Dual BlinkerBeacon)	Dual Yellow Indication

24-Hour Flasher Assembly

Manufacturer	Model/Number	Type
Texas Highway Products (formerly ACM Highway Products)	SF24-1R-Z1	Single Red Indication
	SF24-1Y-Z1	Single Yellow Indication
	SF24-2R-Z1	Dual Red Indication
	SF24-2Y-Z1	Dual Yellow Indication
	SF24-1R-Z2	Single Red Indication
	SF24-1Y-Z2	Single Yellow Indication
	SF24-2R-Z2	Dual Red Indication
Texas Highway Products (formerly ACM Highway Products)	SF24-2Y-Z2	Dual Yellow Indication

School-Zone Flasher Assembly

Manufacturer	Model/Number	Type
BDesign	BDSZ-1Y-Z1	Single Beacon School-Zone
	BDSZ-2Y-Z1	Dual Beacon School-Zone
	BDSZ-1Y-Z2	Single Beacon School-Zone
	BDSZ-2Y-Z2	Dual Beacon School-Zone
Carmanah	R829-G	Dual Beacon Indication
Chapel Hill	SPSZ-TX1	School-Zone
Consolidated Traffic Controls Inc.	RTC SZF-TX1Y	School-Zone
	RTC SZF-TX2Y	School-Zone
Eltec	S890501	Single Beacon School-Zone
	S890504	Dual Beacon School-Zone
Paradigm Traffic, Inc.	AI070-90W-15CAB	Dual Yellow Indication
RTC	TXDCSZ (1 Battery)	Dual Yellow Indication
	TXDC2BATT (2 Battery)	Dual Yellow Indication
Texas Highway Products (formerly ACM Highway Products)	SFSZ-2Y-Z1	School-Zone
	SFSZ-2Y-Z2	School-Zone

Replacement Parts

Manufacturer	Model/Number	Type
Consolidated Traffic Controls Inc.	RTC 502598TxDOTF	Panel DC with Flasher & Regulator

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11160, "FLASHER CONTROLLER ASSEMBLY"**

The following products are pre-qualified for use on the projects where flasher controller assemblies are furnished or installed as required by the plans or item descriptive code. Flasher controller assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

Flasher Cabinets

Manufacturer/Distributor	Model/Number
B Designs	FB1-TX
Chapel Hill / Traffic Parts	2859
Henke Enterprises	NFF2C
Mobotrex Distribution (formerly Brown Traffic)	EPS217
RTC	RTCAC
TEC (Traffic Engineering Controls)	NF2C-TX
Trafficware (Engineered by Naztec)	50040-2000

Time Clocks

Manufacturer/Distributor	Model/Number	*** Software/ Firmware Version
ELTEC (Electrotechnics)	TC-18	1.9.6
	<u>Software used to connect:</u> DLPRO 18	1.7.8
RTC	AP21T	4.00
	<u>Software used to connect:</u> trcomp	1.06
	AP22	3.80 Build 1
Trafficware (Engineered by Naztec)	<u>Software used to connect:</u> RTC Connect	2.25 Build 1
	50075-2001 (Chronomax)	3.5
	<u>Software used to connect:</u> Chronomax Direct	1.12

***This denotes latest approved software/firmware by TRF-TM Branch.

**MATERIAL PRODUCER LIST (MPL) FOR
DMS-11170, "TRAFFIC SIGNAL CONTROLLER ASSEMBLY"**

The following products are pre-qualified for use on the projects where traffic signal controller assemblies are furnished or installed as required by the plans or item descriptive code. Traffic signal controller assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

CONTROLLER UNIT (ONLY)

NEMA, TS-2, Pole-Mount/Base-Mount (12 and 16 positions), SDLC Traffic Controller Assembly with ABC Connectors (Type 2) and without ABC Connectors (Type 1)

Manufacturer/Distributor	Model/Number	Type	*** Firmware Version
Econolite	ASC 3-1000	Type 1	2.64.10
	ASC 3-2100	Type 2	2.64.10
	Cobalt (Color Touch Screen)	Type 1 and 2	32.64.10
	Cobalt (Non Touch Screen)	Type 1 and 2	32.64.10
Econolite ATMS Software	Centracs		2.0
	Centracs Local Edition (Standalone)		2.0
Intelight	X1	Type 1 and 2	1.9.11
	X1L (Lite)	Type 1 and 2	1.9.11
	X2 (Color Touch Screen)	Type 1 and 2	1.9.11
	X3	Type 1 and 2	1.9.11
	X3 (Color Touch Screen)	Type 1 and 2	1.9.11
	X3L (Lite)	Type 1 and 2	1.9.11
Intelight ATMS Software	MaxView		1.8.5.494
McCain, Inc.	M57970 (ATCeX2)	Type 1	1.11.0
	M57390 (ATCeX2)	Type 2	1.11.0
McCain ATMS Software	Transparity		1.4
Peek Traffic Corporation	ATC 1000 Gen 1	Type 1 and 2	3.18
	ATC 1000 Gen 2	Type 1 and 2	3.18
Peek ATMS Software	Spinnaker		2.0.0
	ATC Link (Standalone)		3.25
Siemens	8130-0400-*** (M52)	Type 2*	4.58c/3.58c
	8130-1900-*** (M52)	Type 2*	4.58c/3.58c
	8130-0402-*** (M52)	Type 2*	4.58c/3.58c
	8130-0402-*** (M52 Master/Local)	Type 2*	4.10/3.58c
	8132-0000-*** (M60 NEMA Linux)	Type 2*	5.0
	8133-0000-*** (M60 ATC Lite)	Type 2*	5.0
	8133-0004-*** (M60)	Type 2*	5.0
Siemens ATMS Software	Tactics		5.0.0
Trafficware (Engineered by Naztec)	50099-22300-1	980 Type 1	61.4u
	50099-20300-1	980 Type 2	61.4u

CONTROLLER UNIT (ONLY)

NEMA, TS-2, Pole-Mount/Base-Mount (12 and 16 positions), SDLC Traffic Controller Assembly with ABC Connectors (Type 2) and without ABC Connectors (Type 1)

Manufacturer/Distributor	Model/Number	Type	*** Firmware Version
	50260-2001	ATC Type 1	76.15g
	50260-2011	ATC Type 2	76.15g
	50280-2140	980 ATC Type 1	76.15g
	50280-2240	980 ATC Type 2	76.15g
Trafficware ATMS Software	ATMS.Now		2.7
	Street Sync		1.5

*Only Type 2 Siemens controllers with power adapter cables are being supplied to TxDOT.

***This denotes latest approved firmware by TRF-TM Branch.

CABINET ASSEMBLY

NEMA, TS-2, Pole-Mount/Base-Mount (12 and 16 positions), SDLC Traffic Controller Assembly without ABC Connectors

Manufacturer/Distributor	Model/Number
Econolite	CAB17366 (Size 6, 16-position, Base Mount) <ul style="list-style-type: none"> • Model P44 • Part# 170-1094-501-2-4
Henke Enterprises, Inc.	M128T-TS2-1 (Size 5, 12-position, Pole Mount) P128T-TS2-1 (Size 6, 12-position, Base Mount) P168T-TS2-1 (Size 6, 16-position, Base Mount) HEN-TS2 (Size 6, 16-position, Base Mount)
McCain	M47800 (Size 6, 16-position, Base Mount)
Mobotrex Distribution (formerly Brown Traffic)	EL702-TX2 (Size 5, 12-position, Base Mount)
	EL702-TX2P (Size 5, 12-position, Pole Mount)
	EL712-TX2 (Size 6, 16-position, Base Mount)
Paradigm Traffic Systems, Inc.	PT-M55128TS2-1 (Size 5, 12-position, Pole Mount)
	PT-P44128TS2-1 (Size 6, 12-position, Base Mount)
	PT-P44168TS2-1 (Size 6, 16-position, Base Mount)
Peek Traffic Corp.	8500-17568 (Size 6, 16-position, Base Mount)
RTC Manufacturing	TS-2-P16-TX (Size 6, 16-position, Base Mount)
Trafficware (Engineered by Naztec)	70006-TS2TX (Size 6, 16-position, Base Mount)
	70006-3044 (Size 6, 16-position, Base Mount)
	70006-3044 (E) (Size 6, 16-position, Base Mount)
	70006-TS2TX12 (Size 6, 12-position, Base Mount)
	70008-TS2TX12 (Size 5, 16-position, Base Mount)
	70006-3060 (Size 6, 16-position, Base Mount)

Malfunction Management Unit (MMU)

Manufacturer/Distributor	Model/Number	Firmware Ver.
Eberle Design (EDI)	MMU-16LE	**
	MMU-16LEip	**
	MMU2-16LE	7.3
	MMU2-16LEip	7.3
Eberle Design (EDI) Software	ECcom	4.2.3
Trafficware (Engineered by Naztec)	516L MMU	2.5

**Not NEMA FYA compliant unless updated to 7.3, then they become MMU2's which meets the NEMA FYA Standard.

Flasher Load Switch

NEMA, TS-2, TWO CIRCUIT, SOLID STATE, 15-AMP

Manufacturer/Distributor	Model/Number
Eberle Design (EDI)	810
GDI	204
PDC	204

Load Switch

NEMA, TS-2, THREE CIRCUIT, SOLID STATE, 10-AMP

Manufacturer/Distributor	Model/Number
Eberle Design (EDI)	510
PDC	200
TSC	200

Bus Interface Unit (BIU)

NEMA, TS-2

Manufacturer/Distributor	Model/Number
Eberle Design (EDI)	BIU-700
Econolite	160-1003-501
Eagle (By Mobotrex formerly Siemens)	BIU-200
Trafficware (Engineered by Naztec)	BIU-130

**Power Supply (PS)
NEMA, TS-2**

Manufacturer/Distributor	Model/Number
Eberle Design (EDI)	PS 250 A
	PS 250 B
Eagle (Mobotrex Distribution, formerly Brown Traffic)	CPS 105
Trafficware (Engineered by Naztec)	PS2D

Surge Protection Device (SPD)

Manufacturer/Distributor	Model/Number
Dehn	SN 4616 (Part#989409/S)
Eaton	ITCF1203-RJ
Emerson	SHA-1235FS
HESCO	SPD130KV2

**MATERIAL PRODUCER LIST (MPL) FOR
BATTERY BACK-UP SYSTEM FOR SIGNAL CABINETS**

The following products are pre-qualified for use on the projects where Back-Up System for Signal Cabinets are furnished or installed as required by the plans or item descriptive codes. Battery Back-Up System assemblies are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown.

**Battery Back-Up Systems
for Signal Cabinets**

Manufacturer/Distributor	Model/Number
Alpha Technologies, Inc.	FXM-2000, Model AOES-6 Cabinet 030-127-22 (with four 220 GXL Alpha batteries)
American Power Conversion (APC)	XU1K3LLXRCC Cabinet CTCBBS (with four Interstate DCM0100L batteries and/or four MK8A30 HEI batteries)
Clary	SP2000PD-N, Cabinet BISON-51X24X16-BBS-CAB (with eight OPB-1251 batteries) SP2000LX, Cabinet Bison-014406 (with 8ea. - 8A24HEI MK Batteries)
Myers Power Products	MP2000E, Cabinet BC1280 (with four MK31HR4000S batteries) *Mobotrex Cabinet EL762TX1 (with MK Batteries 8A30 HEI)
Peek Traffic	Powerback 2000 UPS System, PEEK Part Number 5200#15774 (includes cabinet, with four UB121100 Universal batteries)

* This UPS cabinet with batteries was originally approved under Sensata, but is now being sold with the approved Myers BBU (MP2000E).