Traffic Operations

APPROVED PRODUCTS LIST

TRAFFIC SIGNALS AND HIGHWAY LIGHTING EQUIPMENT

MISSOURI DEPARTMENT OF TRANSPORTATION
APPROVED PRODUCTS LIST

TRAFFIC SIGNALS AND HIGHWAY LIGHTING EQUIPMENT

I. GENERAL

This Approved Products List (APL) is based on equipment meeting department specifications and being tested for the specified test period with satisfactory performance. All models shall conform to the latest revision of the Missouri Standard Specifications for Highway Construction unless otherwise indicated. The models indicated on the list are approved, but are subject to final field inspection before acceptance.

The department frequently tests new products and equipment for traffic signals and highway lighting. These new products may be installed on a construction project, purchased on parts orders or with controller orders. Vendors may also submit items, at no cost to the department, for the test period. Only a limited number of units will be accepted for test statewide until an item is added to the Approved Products List. A vendor wishing to initiate a test on a new product shall submit a Product Evaluation Request Form - Signal and Lighting Equipment. Copies of this form can be obtained from our website at www.modot.state.mo.us or contact MoDOT Traffic Operations. Minor model changes do not require an evaluation period, although the vendor shall submit specification sheets and a sample of the product for the Department to inspect.

All equipment evaluations are coordinated through MoDOT Traffic Operations. The vendor supplying the equipment shall provide equipment specifications and a certification that the equipment meets department specifications before the test is performed. The equipment is tested for the period specified on the APL. Products that are not performing satisfactorily will be replaced with an approved product if the vendor cannot provide timely correction of the problem or if unsatisfactory operation of the intersection results.

If a vendor is proposing a product that does not meet department specifications, an explanation of why the product meets or exceeds the current specifications must be provided by the vendor in writing to Traffic Operations. If approved, the product may be tested for the specified period as described above. If the product is satisfactory, the Department will consider a revision to the applicable specifications. Products will not be added to the Approved Products List that do not meet department specifications.

Products on the APL shall continue to perform satisfactorily. In addition, the vendors shall support the products. Products not performing as required or not supported are subject to removal from the APL.

Grounds for removal of products include but are not limited to:

Significant change in product specifications or design without notification to the department.

Failure to correct or replace products that are defective in manufacturing or workmanship.

Repeated patterns of malfunctions of a product not adequately corrected by the vendor.

Unreasonable pricing of repair parts or repair work. Repair work not completed in a reasonable time frame.

Excessive delivery times for new purchases or replacement parts.

Changes in standard specifications may also necessitate removal of specific products from the APL. If this occurs, there will be a grace period where the product will be retained on the list after the specifications are changed. However the product will be removed from the list if it is not revised to meet specifications.

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II. TRAFFIC SIGNAL EQUIPMENT

All traffic signal equipment requires a one-year evaluation period.

CONTROLLERS

NEMA TS1 CONTROLLERS	MODEL
Eagle	EPAC Genesis M40
Eagle	EPAC M42
Eagle	EPAC M52
Econolite	ASC/2-2100
Econolite	ASC/2S-2100
Naztec	980
Peek	3000
Traffic Control Technologies (TCT)	LMD-8000

NEMA ON-STREET MASTER CONTROLLER	MODEL
Eagle	MARC 360
Econolite	KMC-10,000
Econolite	ASC/2M

SOLID STATE PRETIMED CONTROLLERS (ALL TYPES)	MODEL
Eagle	EPIC Series
Traffic Control Technologies (TCT)	LMD 40 Series

170 CONTROLLERS	MODEL
Eagle	170E
McCain	170E
Phillips/Sisson Industries, Inc.	170E
Safetran	170E

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

NOTE: Cabinets and Back panels that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.

NEMA CABINET AND BACK PANEL ASSEMBLIES

Control Technology
Eagle
Econolite
Henke/Bison
IDC/Gibbons
Naztec P-44

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SOLID STATE PRETIMED CABINET AND BACK PANEL ASSEMBLIES
Eagle

CABINETS AND RACKS (TYPE 170 CONTROLLERS)

NOTE: Cabinets and Racks that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.

332 AND 336S CABINET AND RACK ASSEMBLIES

McCain
Phillips/Sisson Industries, Inc.
Safetran

CONFLICT MONITORS

NEMA CONFLICT MONITORS	MODEL
Eberle Design Incorporated (EDI)	NSM-6
Eberle Design Incorporated (EDI)	NSM-12
Eberle Design Incorporated (EDI)	SSM-12LE
Naztec, Incorporated	NM512
Peek/Transyt	1200
Power Distribution & Control (PDC)	CM82-03
Power Distribution & Control (PDC)	CM82-06
Power Distribution & Control (PDC)	CM82-12
Solid State Devices	NM-6
Solid State Devices	NM-12
Solid State Devices	LCD-6P
Solid State Devices	LCD-12P
Traffic Control Technologies (TCT)	LNM Series

170 CONFLICT MONITORS	MODEL
Eberle Design Incorporated (EDI)	210E
Solid State Devices	210P

CABINET ACCESSORIES

AUXILIARY TIME CLOCK	MODEL
Eltec	NTC-17E
Eltec	TC-14
RTC	AP41

EXTERNAL T.B.C. COORDINATORS	MODEL
Eltec	TC-14

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FLASHERS (NEMA & 170)	MODEL
Eberle Design Incorporated (EDI)	810
Power Distribution & Control (PDC)	SSF-86
Power Distribution & Control (PDC)	SSF-88
TSC	204
TSC	204-15
TSC	304
TSC	304-15

FLASH TRANSFER RELAYS	MODEL
AMECO	136-4962
Magnacraft	W21ACPX-2/W21ACPXD-5
Mid-Tex	136-62T-3A1
Power Distribution & Control (PDC)	FTR 91

LOAD SWITCHES (NEMA & 170)	MODEL
Eberle Design Incorporated (EDI)	510
Power Distribution & Control (PDC)	SSS-86
Power Distribution & Control (PDC)	SSS-88
Traffic Control Technologies (TCT)	SSS-86
TSC	200
TSC	200-15
TSC	300
TSC	300-15

ISOLATORS (170 only) (242=DC, 252=AC)	MODEL
Detector Systems	242
Detector Systems	252
GDI	242
GDI	252
Power Distribution & Control (PDC)	242
Power Distribution & Control (PDC)	252
Safetran	242
Safetran	252

SURGE PROTECTORS	MODEL
Edco	SHA 1210
Edco	SHA-1250

TONE RECEIVERS	MODEL
Iniven	IR30M-05-30

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TONE TRANSMITTERS	MODEL
Iniven	IT30

DETECTORS

MICROWAVE DETECTORS	MODEL
Microwave Sensors	TC-26B
Electronic Integrated Systems, Inc. (EIS)	RTMS X-2

MICROLOOP, PROBE	MODEL
3M	Canoga 701

PEDESTRIAN PUSH BUTTONS	MODEL
Pelco	SE-2000-00 (Round Pole Mount)
Pelco	SE-2001-00 (Flat Mount)
Polara Bull Dog	BDLM2-B/PBC-B (ADA Compliant)

POWER SUPPLY FOR CARD RACK DETECTORS - NEMA	MODEL
Detector Systems	205
ICC	PS24
PGK	PS-1.2

SINGLE CHANNEL SHELF MOUNT DETECTORS, STANDARD	MODEL
Detector Systems	910
Eberle Design Incorporated (EDI)	LM301
Sarasota	535B/MS

SINGLE CHANNEL SHELF MOUNT DETECTORS, TIME DELAY	MODEL
Detector Systems	913
Eberle Design Incorporated (EDI)	LM301T
Sarasota	535T/MS

ULTRASONIC DETECTORS	MODEL
Microwave Sensors	TC-30

2-CHANNEL CARD RACK COUNTING DETECTORS, DUAL OUTPUT	
Eberle Design Incorporated (EDI)	LM632

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2-CHANNEL CARD RACK COUNTING DETECTORS, SINGLE OUTPUT PULSE MODE (170)	MODEL
Detector Systems	222R
Sarasota	222-GP5
Sarasota	222 GP6

2-CHANNEL CARD RACK COUNTING DETECTORS, SINGLE OUTPUT PULSE MODE (NEMA)	MODEL
Eberle Design Incorporated (EDI)	LM632T
ICC	S27B
Reno A & E	C

2-CHANNEL CARD RACK DETECTORS, STANDARD (170)	MODEL
Detector Systems	222R
Eberle Design Incorporated (EDI)	LM222
Reno A & E	222
Sarasota	222-GP5
Sarasota	222 GP6

2-CHANNEL CARD RACK DETECTORS, STANDARD (NEMA)	MODEL
Eberle Design Incorporated (EDI)	LM602R
ICC	S27B
Reno A & E	C
Reno A & E	G

2-CHANNEL CARD RACK DETECTORS, TIME DELAY (170)	MODEL
Sarasota	222T-GP5
Sarasota	222T GP6

2-CHANNEL CARD RACK DETECTORS, TIME DELAY (NEMA)	MODEL
3M	Canoga C800 Series
Detector Systems	262CR
Eberle Design Incorporated (EDI)	LMD602TR

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SIGNAL HEADS

BACKPLATES	MODEL
Neodesia Plastics	BP Series
Pelco	BK-100x Series
Chapel Hill	44xx Series

HARDWARE

NOTE: Hardware that meets MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide equipment that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.

Pelco	
Reliable 3/8" Strandvise	5202
Reliable ¼" Strandvise	5200

LOUVERS	MODEL
Pelco	GPL

POLYCARBONATE SIDE-MOUNT BRACKETS WITH RELATED HARDWARE	MODEL
Component Products	Any
Eagle	UKS1452AB

SIGNAL HEADS - ALUMINUM CONVENTIONAL	MODEL
Automatic/Eagle	SIG Series
McCain	MTSA Series
Safetrans/IDC	ST Series
Traffic Control Technologies (TCT)	HSS Series

SIGNAL HEADS - ALUMINUM PEDESTRIAN	MODEL
Automatic/Eagle	SIG Series

SIGNAL HEADS - OPTICALLY LIMITED	MODEL
McCain	HPTS Series

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SIGNAL HEADS - POLY CONVENTIONAL	MODEL
Chapel Hill	SIG-TPB-305-CTN-NVN-0N (3 section)
Chapel Hill	SIG-TPB-586-CTN-NVN-0N (5 section)
Eagle	SA Series
General Traffic Equipment Corp	T-30 POLY
IDC/Safetrans	LT Series
McCain	MTSTP Series
Traffic Control Technologies (TCT)	PSS Series

PEDESTRIAN HEAD – POLY 1-SECTION	MODEL
McCain	M32258L (clamshell mount left)
McCain	M32258R (clamshell mount right)
McCain	M32258 (side-of-pole mount)

PEDESTRIAN HEAD MOUNTING – CLAMSHELL	MODEL
McCain	P9050B

PEDESTRIAN LED SIGNAL INDICATION	
Act One Communications, Inc.	TP-16WP-1
Dialight	430-6473-001
Duralight	JXM-400VIAIL
Gelcore	PS7-CFC1-01A
Gelcore	PS7-CFC1-26A
Leotek	TSL-PED-DP-16-FS

SIGNAL LENSES-GLASS	MODEL
Eagle	PBL Series
Kopp	Any
McCain	MSP Series

POSTS AND MAST ARMS

Note: Posts and Mast Arms do not require an evaluation period. Posts and Mast Arms shall be fabricated in accordance with MoDOT specifications and standards. Posts and Mast Arms shall be pre-approved as required by the MoDOT standards and specifications to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Posts and Mast Arms are subject to field inspection before acceptance.

STEEL POSTS AND MAST ARMS	DRAWING NUMBER
Ameron International	MO9811 - Rev. 9 (Type C)
Ameron International	MO9812 - Rev. 10 (Type CL)
JEM Engineering & Manufacturing	MODOT1-4 Rev. 2 (Types C, CL, B & BL)
Union Metals	30443-B202 - Rev. 18 (Types C, CL, B & BL)
Valmont	DB00408 - Rev. C (Types C, CL, B & BL)

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MISCELLANEOUS

LOOP SEALANTS (Loop sealants do not require material certification)	MODEL
3M	5000
Bondo	560
Bondo	575
Bondo	P606
Chemque	290S
Chemque	296-06
Durant Paints	Stat-A-Flex Polyseal
RAI Products	Pro-Seal 6006

PEDESTAL BASES	MODEL
Akron Foundry	TS-1000-L-P
Akron Foundry	TS-1000-L-WP
Component Products	CPI-BAS-1
Pelco	PB5336
Pelco	PB5337
Pelco	PB5340
Pelco	PB5341
Traffic Parts	TP 289 X

SPLICE KITS (DETECTOR LEAD-IN)	MODEL
3M	DBY Series
HOMAC HMC Industries	RAB 1/0 Series

METER SERVICE PEDESTAL (SIGNALS/SIGNALS & LIGHTING)	MODEL
Milbank Signal Service Only 120/240 volt	CP3B51C1PAAOMO1
Milbank Signal with Lighting 120/240 volt	CP3B51C1PBAOMO2
Milbank Signal with Lighting 120/240 volt dual meter	CP3B62C2NBAOMO1
Pacific Utility Products Signal with Lighting 120/240 volt	USPA-100-100-MODOT

SIGNAL BULBS

OPTICALLY LIMITED	MODEL
3M	78-8008-7703-3
General Electric (GE)	150PAR46/TS
Philips	150PAR46/TS

STANDARD - 1260 LUMEN *(8 inch indications)*	MODEL
Sylvania	116A21TS8M

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STANDARD - 1750 LUMEN *(12 inch indications)*	MODEL
Aero-Tech	01605
Aero-Tech	01614
H&H Industries	HH229
H&H Industries	HH217
Philips	K135A21/TS/EW
Radiant	K135A21TS
Sylvania	135A21/TS/8M/SS

LIGHT EMITTING DIODES (LED)

REGULAR VIEW	MODEL
Act One Communications, Inc.	T1-08A-0004 (8" Yellow Ball – for use at fire stations)
Act One Communications, Inc.	TA-12A-5 (Yellow Arrow)
Act One Communications, Inc.	TA-12G-5 (Green Arrow)
American Signal Corporation	ASC-0300-GA1 (Green Arrow)
American Signal Corporation	ASC-0300-YA1 (Yellow Arrow)
Dialight	431-3334-001 Rev. B2 (Yellow Arrow)
Dialight	432-2374-001 (Green Arrow)
Dialight	431-3334-001X (Yellow Arrow)
Dialight	432-2324-001X (Green Arrow)
Duralight	JXJ-300VIGB (Green Arrow)
Duralight	JXJ-300VIYB (Yellow Arrow)
GELcore	DR4-YTFB-20A-22 (8" Yellow Ball – for use at fire stations)
GELcore	DR6-YTAAN-21A (Yellow Arrow)
GELcore	DR6-GCAAN-21A (Green Arrow)
Ledtronics	TRF-108-OPY-120A (8" Yellow Ball – for use at fire stations)
Leotek	TSL-12YA-MF-A1 (Yellow Arrow)
Leotek	TSL-12GA-MF-A1 (Green Arrow)

EXPANDED VIEW	MODEL
Act One Communications, Inc.	T1-12R-W (Red Ball)
Act One Communications, Inc.	T1-12G-W (Green Ball)
Act One Communications, Inc.	T1-12A-W (Yellow Ball)
Dialight	433-1210-003 (Red Ball)
Dialight	433-2270-001 (Green Ball)
Dialight	433-3230-001 (Yellow Ball)
Dialight	435-1210-001 (Red Ball)
Dialight	435-2220-001 (Green Ball)
Dialight	435-3230-001 (Yellow Ball)
Duralight	JXC300-CAG (Green Ball)
Duralight	JXC300-CAY (Yellow Ball)
Duralight	JXC300-CAR (Red Ball)
GELcore	DR6-RTFB-20A-40 (Red Ball)

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GELcore	DR6-GCFB-20A-40 (Green Ball)
GELcore	DR6-YTFB-20A-40 (Yellow Ball)
Leotek	TSL-EV12R-HP3-A1 (Red Ball)
Leotek	TSL-EV12G-HP3-A1 (Green Ball)
Leotek	TSL-EV12Y-HP1-A1 (Yellow Ball)

PROGRAMMABLE VIEW	MODEL
Dialight	P463R33003 (Red Ball)
Dialight	P463Y33003 (Yellow Ball)
Dialight	P463G33003 (Green Ball)
GELcore	DR3-RCFB-01A (Red Ball)
GELcore	DR3-YCFB-01A (Yellow Ball)
GELcore	DR3-GCFB-01A (Green Ball)

VIDEO DETECTION SYSTEMS

VIDEO DETECTOR	MODEL
Econolite	Autoscope 2004
Econolite	Autoscope 2020
Econolite	Autoscope Solo Pro
Iteris	Vantage Edge2
Traficon	VIP 3.1
Traficon	VIP 3.2

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III. HIGHWAY LIGHTING

All highway lighting equipment require a one-year evaluation period except for items noted requiring a six-month evaluation.

LIGHTING POLES

Note: Poles do not require an evaluation period. Poles shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Lighting poles are subject to field inspection before acceptance.

STEEL POLES	DRAWING NUMBER
Ameron International	MO98AT3 – Rev. 4 (Type AT45) Design 1 & 2
Ameron International	MO98AT2 – Rev. 4 (Type AT45)Design 3, 4 & 5
Ameron International	MO98AT4 – Rev. 3 (Type AT30)
Ameron International	MO98B2 – Rev. 3 (Type B45 & MB45)
Ameron International	MO98B4 – Rev. 2 (Type B30)
Millerbernd Manufacturing Co.	730B907 (Type AT30)
Millerbernd Manufacturing Co.	730B653 (Type AT45)
Millerbernd Manufacturing Co.	730B908 (Type B30)
Millerbernd Manufacturing Co.	730B909 (Type B45)
Millerbernd Manufacturing Co.	730B910 (Type MB45)
Union Metals	71019-B6 - Rev. 7 (Type AT45)
Union Metals	71019-B7 - Rev .4 (Types B45 & MB45)
Union Metals	71020-B2 - Rev. 5 (Type AT30)
Union Metals	71020-B3 - Rev. 4 (Type B30)
Valmont	DB00019 – Rev. N (Types AT30 & B30)
Valmont	DB00020 – Rev. N (Types AT45, B45 & MB45)

FOUNDATIONS

Note: Screw anchor foundations do not require an evaluation period. Screw anchor foundations shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Screw anchor foundations are subject to field inspection before acceptance.

SCREW ANCHOR FOUNDATIONS	DRAWING NUMBER
J. H. Botts	JHB MOH 30 – Rev. C (Type AT30)
J. H. Botts	JHB MOH 45 – Rev. D (Type AT45)
Hubbell Chance	SA112-0696 – Rev. F (Type AT30)
Hubbell Chance	SA112-0786 – Rev. B (Type AT45)

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LUMINAIRES

NOTE: Luminaires will not be furnished with photoelectric cells. Receptacles will have a shorting plug in place of cell. Multi-tap ballast for 120 Volt and 240 Volt fixtures is permissible.

BRACKET ARM MOUNT - 150 WATT	MODEL
American Electric Lighting	115 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVZ Series
Crouse-Hinds/Cooper	OVX Series
General Electric (GE)	M2RR Series
Holophane	Mongoose Series

BRACKET ARM MOUNT - 250 WATT	MODEL
American Electric Lighting	115 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVZ Series
Crouse-Hinds/Cooper	OVX Series
General Electric (GE)	MSRL Series
Holophane	Mongoose Series

BRACKET ARM MOUNT - 400 WATT	MODEL
American Electric Lighting	125 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVX Series
General Electric (GE)	MSRL Series
Holophane	Mongoose Series

HIGH MAST LIGHTING	MODEL

NOTE: High mast lighting is custom designed for the location. Fixtures from the following manufacturer's series are considered pre-approved.

Cooper	HMC Series
General Electric (GE)	HMA Series
Holophane	HMS Series
Metrolux	VA Series

POLE TOP MOUNTING	MODEL
Holophane	HL2A Series
Holophane	Mongoose Series

SIGN LIGHTING - 250 WATT	MODEL
General Electric (GE)	V2FN Series
Guth	B17632 Series
Holophane	PANL Series
Holophane	SNVW Series

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SIGN LIGHTING - 400 WATT	MODEL
Holophane	PANL Series
Holophane	SNVW Series

UNDERPASS (WALLPACKS)	MODEL
American Electric Lighting	582 Series
Cooper	WPK Series
General Electric (GE)	WAL Series
Holophane	MDWP Series
Holophane	WL2K Series
Hubbell	PGM-150S Series

CONTROL EQUIPMENT

CONTACTORS-ELECTROMECHANICAL	MODEL
Square D	Type S
Westinghouse/Cutler-Hammer	A202 Series

CONTACTORS-MERCURY	MODEL
Dayton/Duracool	6A/6X Series
Magnecraft	WM Series

BASE MOUNTED CONTROL CABINETS

NOTE: Cabinets that meet MoDOT specifications from the following manufacturers will be accepted. All other manufacturers must provide a model that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.

Cleveland Switchboard
Coxline
Hoffman
Shallbetter
Inland Technologies

LIGHTNING ARRESTER	MODEL
Delta	LA 600 Series
General Electric Tranquell	9L15ECB001

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MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL	MODEL

NOTE: Mounting sockets require a six-month evaluation.

American Electric Lighting	PBC
Fischer-Pierce	S476-71
General Electric (GE)	MB-PECTL

PHOTOELECTRIC CONTROL	MODEL
Area Lighting Research	SST-120 (120 volt)
Area Lighting Research	SST-240 (240 volt)
Area Lighting Research	SST-PV (120/240 volt)
American Electric Lighting	D120-1.0-STJ (Dark to Light) (120 volt)
American Electric Lighting	D124-1.0-STJ (120/240 volt)
American Electric Lighting	D240-1.0-STJ (240 volt)
American Electric Lighting	DE480-1.0-TJ (480 volt)
Fischer-Pierce	FPN7790B (105 – 285 volt)
Fischer-Pierce	FPN7772 (195 – 305 volt)
Fischer-Pierce	FPN7794 (480 volt)
Fischer-Pierce	FPN7760 (120 volt)
General Electric (GE)	PEC01TL (>120v/< 305v w/ time delay)
General Electric (GE)	PEC1TL (120v)
General Electric (GE)	PEC5TL (480v)
ITT	SAT-15

TYPE A CIRCUIT BREAKERS	MODEL
Square D	FAL Series
Westinghouse/Cutler-Hammer	EHD Series (1-Pole)
Westinghouse/Cutler-Hammer	FDB Series (2-Pole)

MISCELLANEOUS

AVIATION LIGHTING	MODEL
Hughey & Philips	KG114

FUSED SLIP CONNECTORS	MODEL

NOTE: Slip connectors require a six-month evaluation.

Buss	HEB-JWRYC

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METER SERVICE PEDESTAL (LIGHTING)	MODEL
Milbank	CP3B51C1PBAOMO3 (240 volt)
Milbank	CP3B51D1PBAOMO1 (480 volt)
Myers	MEUGLA -M100-MDOT (120/240 volt)
Myers	MEUG20 (120/240 volt)
Pacific Utility Products	USP16-M2100-112C-MODOT (120/240 volt)
Pacific Utility Products	USP16-M2100-112C-MODOT (240/480 volt)
Tesco	28-105 Type III BF (120/240 volt)
Tesco	28-102F (120/240 volt)

NAVIGATION LIGHTING	MODEL
Tideland	ML-140 with TF-3AC Lamp Changer
Automatic Power, Inc.	FA-143

SPLICE KITS	MODEL
3M	82A1 (Single)
3M	82A2 (Single)
3M	82B1 (Three Way)
3M	82B2 (Three Way)
HOMAC HMC Industries	RAB 1/0 Series

TRANSFORMER BASES	MODEL
Akron Foundry	TB1-17H (for AT30)
Akron Foundry	TB3-17H (for AT45)

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IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

All items require a six-month evaluation period.

MAIN SERVICE DISCONNECT ENCLOSURE WITH SAFETY SWITCH (NEMA 4)	MODEL
General Electric (GE)	TE 100 CS
Square D	FA-100-DS Series E2
Westinghouse	WFDN 100

PREFORMED PULL BOX-CLASS 1	MODEL
Straight	
Armorcast Products Company	A6001640TAPCX22 (Box & Lid)
Carson Industries	H1730-24 (Box)
	H1730-PI (Lid)
Strongwell/Quazite	PG1730B532 (Box)
	PG1730H511 (Lid)
	PG1730BA Series
Synertech	S1730B24AA (Box)
	S1730HBB0A (Lid)
Flared	
Armorcast Products Company	A6001640TAX24 (Box & Lid)
CDR	SA12-1730-22 Series (Box & Lid)
NewBasis	FCA173022CC4126-62 (Box & Lid)
NewBasis	FCA173022CC4749-61 (Box & Lid)
NewBasis	FCA173024CC40303 (Box & Lid)
Pencell Plastics	PEM-1830-PCX (Box & Lid)

PREFORMED PULL BOX-CLASS 2	MODEL
Straight	
Armorcast Products Company	A6001974TAPCX26 (Box & Lid)
Armorcast Products Company	A6001974TAPCX24
Carson Industries	H2436-24 (Box)
	H2436-PI (Lid)
Strongwell/Quazite	PG2436B539 (Box)
	PG2436H508 (Lid)
	PG2436BA Series
Synertech	S2436B26AA (Box)
	S2436HCB0A (Lid)
Flared	
Armorcast Products Company	A6001974TAX26 (Box & Lid)
Armorcast Products Company	A6001974TAX24
CDR	SA12-2436-24 Series (Box & Lid)
NewBasis	FCA243630CC4126-61 (Box & Lid)
NewBasis	FCA243630CC4749-61 (Box & Lid)
NewBasis	FCA243624CC40716 (Box & Lid)
Pencell Plastics	PEM-2436-36 (Box & Lid)
Pencell Plastics	PEM-2436-PCX-24 (Box & Lid)
Synertech	S2436B24AA (Box)
	S2436HCB0A (Lid)

MISSOURI DEPARTMENT OF TRANSPORTATION
APPROVED PRODUCTS LIST

PREFORMED PULL BOX-CLASS 3	MODEL
Straight	
Armorcast Products Company	A6001430TAPCX36 (Box & Lid)
Carson Industries	H3048-36 (Box)
	H3048-P1 (Lid)
Strongwell/Quazite	PG3048B560 (Box)
	PG3048H517 (Lid)
	PG3048BA Series
Synertech	S3048B36AA (Box)
	S3048HCB0A (Lid)
Flared	
Armorcast Products Company	A6001550TAX36 (Box & Lid)
CDR	SA12-3048-36W Series (Box & Lid)
NewBasis	FCA304836EE4749-61 (Box & Lid)
NewBasis	FCA304836EE40304 (Box & Lid)
Pencell Plastics	PEM-3048-36-PCX-SPLIT (Box & Lid)

PREFORMED PULL BOX-CLASS 5	MODEL
Flared	
Armorcast Products Company	A6001466TA (Box & Lid)
Armorcast Products Company	A6000172TAX36 (Box & Lid)
CDR	SA12-3200-36 (Box & Lid)
NewBasis	FCA540036C4800 (Box & Lid)
NewBasis	FCA540036C40336 (Box & Lid)
NewBasis	FCA540036-MODOT