

EXHIBIT A - MONTHLY PURCHASE SPECIFICATION EXAMPLE

NEW ITEM NO.	OLD ITEM NO.	STOCK NO.	UNIT	PURCHASE SPECIFICATIONS
1 PH DISTRIBUTION TRANSFORMERS ON THE CERTIFIED STOCK LIST ITEMS 1-23				
1-22		unused		
PAD-MOUNTED DIST. TRANSFORMER, 1 PHASE, 120/240V, REDUCED SIZE, ITEM 23				
23		907	ea	<p>TRANSFORMER, 50 KVA, PADMOUNT, REDUCED SIZE, COMPARTMENTAL TYPE, SINGLE PHASE, DISTRIBUTION CLASS. IN ACCORDANCE WITH ELECTRIC DEPARTMENT ALL UNITS MUST HAVE A COPPER GROUNDING STRAP CONNECTED FROM THE X2 COPPER STUD TO A COPPER LUG LOCATED IN THE LOWER RIGHT HAND CORNER". SPECIFICATION E-0762-15APR19, LATEST REVISION. ON QUALIFIED PRODUCTS LIST EL-206..</p> <p>Approved Brands: Spec E-762 LATEST REVISION ABB COOPER POWER CNTRL MOLONY ERMCO HOWARD INDUS</p>
BUS BAR 50/30/20 SPLIT				
24		4719	ea	<p>BUS, BAR,COPPER,FLAT,3/8 IN X 6 IN X 12FT,WITH FULL ROUNDED EDGES. SIZES AS SPECIFIED. IN 12 FOOT LENGTHS UNLESS STATED OTHERWISE ON PURCHASE ORDER. MANUFACTURED IN COMPLIANCE WITH ALL APPLICABLE SECTIONS OF ASTM DESIGNATION B 187-94. ON QUALIFIED PRODUCTS LIST EL-261. MATERIAL MUST BE PACKED IN WOODEN CRATES. U/M CHANGED 12/5/02 FROM FT TO EA, 1 EA = ONE 12 FT STICK</p> <p>Approved Brands: QPL #EL261 FANNER MFG. (SPECIAL ORDER) FARMERS COPPER (SPECIAL ORDER) HUSSEY COPPER (SPECIAL ORDER) REVERE COPPER (S1250.5625.2375)</p>
25-27		unused		
SELECTED ELECTRICAL MATERIALS ON THE CERTIFIED STOCK LIST, ITEMS 28-75				
28		6504	ea	<p>ANCHOR, expanding, for 5/8" or 3/4" rod sizes. QPL #EL-96</p> <p>Approved Brands: QPL #EL-96 HPS (88135) MPS (J-8135) ALLIED BOLT (19021)</p>
29		unused		
30		unused		

31		16477	ea	<p>ARRESTER, SURGE, 10 KV, 8.4 KV MCOV, METAL-OXIDE TYPE, TOP TERMINAL SUPPLIED WITH NUT AND WIRE CLAMP MOUNTING HARDWARE SHALL BE INSULATED BASE BRACKET WITH ISOLATOR, LOWER TERMINAL SHALL BE INSOLATOR, NUT, WASHER AND THREADED TERMINAL NUT. ARRESTER SHALL MEET ANSI STANDARD C62.11 LATEST REVISION FOR METAL-OXIDE SURGE ARRESTERS. ON QUALIFIED PRODUCTS LIST EL1210.</p> <p>Approved Brands: ALUMA FORM (59045 (AHD-10B-1GB-2X1-2X) COOPER POWER (UHS10050B1A1A1A) SIEMENS (3EK8-100-3CA4) MPS (ZHP010-0000000) HPS (213709-7214)</p>
32		1195	ea	<p>BRACKET, Fiberglass Triple Ear 18" 1-1/2 Dia Shaft, end fittings shall be hot dip galvanized or aluminum alloy A356- T6. Minimum ultimate strengths to be as follows: Vertical 1,200 lbs., Longitudinal 700 lbs., Transverse 10,000 lbs. Bracket shall have a pole-mounting dimension of 8 inches. The top mounting hole of the bracket shall be a round 11/16 inch hole or horizontal 11/16 in slot. Provisions and hardware shall come with the bracket. A keyhole mounting hole will not be acceptable.</p> <p>Approved Brands: QPL #EL-1467 ALUMA FORM (FICA-MV-A18-JC411) HPS (1SBM18CLRHR) Hughes Bros (CF892-18) MPS (G1MAA218AG) Performed (FM18FB)</p>
Also report local stock in linear feet not circuit feet on Certified Stock List form PSD 3140.				
33		1207	linear/ft	<p>CABLE, POWER, ALUMINUM, 15KV 1/0 A WG, 1 CONDUCTOR, XLPE 133%, 220 MIL INSULATION, FULL NEUTRAL, PER SPECIFICATION E-1517 LATEST REVISION, ON QPL EL-1472. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 66" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 42".PURCHASING FOOT-AGE SHALL BE 2500 FT, + OR - 10%.</p> <p>Approved Brands: QPL EL-1472, SPEC E-1517 LATEST REVISION BICC GENERAL CME HENDRIX WIRE NEXANS OKONITE PRYSMIAN CBL SOUTHWIRE</p>

34		1208	linear/ft	<p>CABLE, POWER, ALUMINUM, 15KV 1/0 AWG, 3 CONDUCTORS, XLPE 133% INSULATION, EACH CONDUCTOR TO CARRY 1/3 NEUTRAL CURRENT, PER SPECIFICATION E-1531 LATEST REVISION, ON QPL EL-1473. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. HOLE MAX FLANGE MEASUREMENT SHALL BE 66" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 42". PURCHASING FOOTAGE SHALL BE 1000 CURCUIT FT OR 3000 LINEAR FT, + OR - 10% "URD"-underground residential distribution</p> <p>Approved Brands: QPL EL-1473, Spec E-1531D LATEST REVISION</p> <p>BICC GENERAL CME HENDRIX WIRE NEXANS OKONITE PRYSMIAN CBL SOUTHWIRE</p>
35		1422	linear/ft	<p>CABLE, 15KV, 1000 MCM, COMPACT COPPER, JACKETED, REDUCED CONCENTRIC NEUTRAL, SINGLE CONDUCTOR, EPR INSULATION. ON QUALIFIED PRODUCTS LIST EL-1532 AND PURCHASING SPEC E-992. CABLE TO BE SHIPPED ONLY ON A RETURNABLE STEEL REEL 90.0" flange size X 50.25" overall width of reel.</p> <p>Approved Brands: QPL EL-1532, Spec E-992</p> <p>CME BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE</p>
35.1		19558	linear/ft	<p>CABLE, POWER, 15 KV COPPER 1000MCM JACKETED, REDUCED CONCENTRIC NEUTRAL EPR, LATEST REVISION OF SPEC E-992. SAME AS CSN # 0000001422 EXCEPT WHEN ORDER IS PLACED WIRE SHALL BE SMOOTH CUT AND ENDS CAPPED.</p> <p>Approved Brands: QPL EL-1532, Spec E-992</p> <p>BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE</p>
36		1644	linear/ft	<p>CABLE, 15 KV, COMPACT COPPER CONDUCTOR, EPR INSULATED, LLDPE JACKET, JACKETED, REDUCED CONCENTRIC NEUTRAL (AS PER SPECIFICATION E-0992 LATEST REVISION). ON QUALIFIED PRODUCTS LIST EL-1532.</p> <p>Approved Brands: QPL EL-1532, Spec E-992</p> <p>BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>

36.1		1644	linear/ft	<p>Same as certified bid item number 36 except wire is to be furnished in cut-to-length footage as specified when the order is placed by Austin Energy. Wire shall be saw cut and the ends capped. Reels shall be clearly marked with the type of cable and footage. As provided by Austin Energy, the job name and work order number must also be clearly marked on the reel.</p> <p>Approved Brands: QPL EL-1532, Spec E-992</p> <p>BICC Cable OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
37		1696	linear/ft	<p>CABLE,15KV,COMPACT COPPER CONDUCTOR,EPR INSULATED,LLDPE JACKET,JACKETED, REDUCED CONCENTRIC NEUTRAL (AS PER SPECIFICATION E-0992,LATEST REVISION). ON QUALIFIED PRODUCTS LIST EL-1532.</p> <p>Approved Brands: QPL EL-1532, Spec E-0992 LATEST REVISION</p> <p>BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
38		1697	linear/ft	<p>CABLE,15 KV,COMPACT COPPER CONDUCTOR,EPR INSULATED,LLDPE JACKET,JACKETED, REDUCED CONCENTRIC NEUTRAL (AS PER SPECIFICATION E-0992 LATEST REVISION). ON QUALIFIED PRODUCTS LIST EL-1532.</p> <p>Approved Brands: QPL EL-1532, Spec E-992 LATEST REVISION</p> <p>BICC Cable OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
39		1698	linear/ft	<p>CABLE,15 KV,COMPACT COPPER CONDUCTOR,EPR INSULATED,LLDPE JACKET,JACKETED, REDUCED CONCENTRIC NEUTRAL (AS PER SPECIFICATION E-0992 LATEST REVISION) ON QUALIFIED PRODUCTS LIST EL-1532.</p> <p>Approved Brands: QPL EL-1532, Spec E-992 LATEST REVISION</p> <p>BICC Cable OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>

40		1746	linear/ft	<p>CABLE, POWER, 15 KV, ALUMINUM, 1/0 AWG, THREE CONDUCTOR PARALLEL, XLPE, FULL NEUTRAL, 133% INSULATION LEVEL. CABLE SHALL BE MADE AS PER SPECIFICATION E-1531, LATEST REVISION, WITH THE EXCEPTION OF PACKAGING. EACH REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 66" AND MAX OUTSIDE TO OUTSIDE WIDTH OF 42". T.</p> <p>PURCHASING FOOTAGE SHALL BE 3000 FT +/- 10%, CIRCUIT FOOTAGE WILL BE 1000 FT.</p> <p>REPLACES 28080115001 - FULL NEUTRAL ONLY. NOTIFY STANDARDS IF CUSTOMER REQUESTS MORE THAN ONE REEL OR USAGE BEGINS INCREASING.</p> <p>SPECIAL NOTE: BEGIN STOCKING ONE REEL AT ST. ELMO AND KRAMER AS INSURANCE STOCK FOR EMERGENCY AND MAINTENANCE USE PER DCS STANDARDS.</p> <p>"ON QPL EL-1473"</p> <p>Approved Brands: Spec E-1531 LATEST REVISION BICC HENDRIX WIRE NEXANS OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
41		1650	linear/ft	<p>CABLE POWER 35KV THREE CONDUCTOR #350 MCM COMPACT COPPER JACKETED, REDUCED CONCENTRIC NEUTRAL EPR. 1200 CIRCUIT FT./3600 FT TOTAL PER REEL +/- 10 PCT.</p> <p>ON QUALIFIED PRODUCTS LIST EL-1550, SPECIFICATION E-992 (SEE LATEST REVISION).</p> <p>Approved Brands: QPL EL-1550, Spec E-992 updated 10/16/19 BICC GENERAL KERITE OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
41.1		1650		<p>Same as certified bid item number 41 except wire is to be furnished in cut-to-length footage as specified when the order is placed by Austin Energy. Wire shall be saw cut and the ends capped. Reels shall be clearly marked with the type of cable and footage. As provided by Austin Energy, the job name and work order number must also be clearly marked on the reel.</p> <p>Approved Brands: QPL EL-1550, Spec E-992 updated 10/16/19 BICC GENERAL KERITE OKONITE PRYSMIAN CBL SOUTHWIRE CME</p>
42		1649	linear/ft	<p>CABLE POWER 35KV THREE CONDUCTOR #1/0 PARALLEL COMPACT COPPER JACKETED, REDUCED CONCENTRIC NEUTRAL EPR. ON QUALIFIED PRODCUTS LIST EL1550 AND SPECIFICATION E-992..</p> <p>Approved Brands: QPL EL-1532, Spec E-992 dated 1/26/00 BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE CME KERITE</p>

42.1		1649		<p>Same as certified bid item number 42 except wire is to be furnished in cut-to-length footage as specified when the order is placed by Austin Energy. Wire shall be saw cut and the ends capped. Reels shall be clearly marked with the type of cable and footage. As provided by Austin Energy, the job name and work order number must also be clearly marked on the reel.</p> <p>Approved Brands: QPL EL-1532, Spec E-992 dated 1/26/00 BICC GENERAL OKONITE PRYSMIAN CBL SOUTHWIRE</p>
43		15478	linear/ft	<p>CABLE,STATION CONTROL,12 CONDUCTOR,600 VOLT,10 AWG,CLASS C, 19 STRAND, SOFT DRAWN,BARE COPPER CONDUCTOR,ON 2,500 FT REELS WITH 3 IN ARBOR HOLE. REELS TO HAVE 3-1/16 INCH PRESSED IN STEEL HUBS. PER AE SPECIFICATION E-0856 LATEST REVISION CHANGED TO INSURANCE STOCK PER LENNY MOLBERT BECAUSE LOW USAGE AND OTHER SUBSTATION CONTROL CABLES ARE INSURANCE STOCK. ON QPL EL-738</p> <p>Approved Brands: QPL EL738, SPEC E-0856 LATEST REVISION BICC GENERAL ESSEX OKONITE ROCKBESTOS TAMAQUA SOUTHWIRE</p>
44		1242	ea	<p>CONNECTOR, ELBOW, LOAD BREAK WITH TEST POINT, FOR 15 KV CABLE, CONCENTRIC NEUTRAL URD CABLE, 8.3/14.4 KV, MOLDED RUBBER SHIELDING, ON QUALIFIED PRODUCTS LIST EL-940</p> <p>Approved Brands: QPL #EL-940 Cooper POWER (LE215CC06T) HPS (215LE45T) HPS (9U01AAD645) RICHARDS MFG (21LBT2B9BAA) T&B (162LRB5240)</p>
45		1248	ea	<p>CONNECTOR, TRANSFORMER SECONDARY, DISCONNECTABLE, 5/8" STUD, WITH 6 OUTLETS, CABLE RANGE #6 TO 350 MCM, WITH STREETLIGHT OPTION FOR #12-#4 WIRE, AND SEE-THRU INSULATED COVER. WITH INHIBITOR. ON QUALIFIED PRODUCTS LIST EL-1482</p> <p>Approved Brands: QPL #EL-1482 Alcon (BTOT61-350-FGSOC) T & B (TSB6359SD58RC) Homac (CSW6350SLC-5/8) UTILCO (PTF6-350CJUSLP) CMC (RLSS350-6I-SLI)</p>

46		15552	ea	<p>DEADEND, Arm, Fiberglass 5 Foot Approximate Length, 9500 lbs minimum strength per phase. UV Inhibitors shall be added through and through with an additional UV coating on the outside of arm to prevent blooming and prevent breaddown of the integrity of the fiberglass. All arms will be filled with a high density, closed cell, expandable foam. The crossarm shall be tested as per ATSM 154-00ae1. All arms shall have a minimum of 60 inches distance between outside phases. All deadend attachments will be 5/8 inch eyebolts. All pin holes will be 11/16 inch. Mounting brackets will have a 13/16" keyhole on top and a 13/16" slot on the bottom. Mounting holes will be on 12-inch centers with the top measurement at 3/8" from the top of the slot part of the hole. Center mount will have a dual guy attachment with 13/16" holes rated at 10,000 lb minimum per hole. ", THE CROSSARM SHALL HAVE A MAXIMUM ALLOWABLE DEFLECTION OF 0.17 INCHES PER 1000 POUNDS.</p> <p>Approved Brands: QPL #EL-14240 PUPi (DA2500068E2AU12) Shakespeare (HEB066G12242AE) MPS (PY06SD037-2E-SM)</p>
47		15553	ea	<p>DEADEND, Arm, Fiberglass 8 Foot Overall Length, 9500 lbs minimum strength per phase. UV Inhibitors shall be added through and through with an additional UV coating on the outside of arm to prevent blooming and prevent breaddown of the integrity of the fiberglass. All arms will be filled with a high density, closed cell, expandable foam. The crossarm shall be tested as per ATSM 154-00ae1. All arms shall have a minimum of 60 inches distance between outside phases. All deadend attachments will be 5/8 inch eyebolts. All pin holes will be 11/16 inch. Mounting brackets will have a 13/16" keyhole on top and a 13/16" slot on the bottom. Mounting holes will be on 12-inch centers with the top measurement at 3/8" from the top of the slot part of the hole. Center mount will have a dual guy attachment with 13/16" holes rated at 10,000 lb minimum per hole.</p> <p>Approved Brands: QPL #EL-14240V MPS (PY08SD003-2E-SM) MPS (PY08SD257-2E-SM) Shakespeare (IDB096G122442AE)</p>
48		15550	ea	<p>ARM DEADEND,FIBERGLASS, 6 IN WIDE X 4 IN DEEP X 10 FT LONG, GRAY, 9500 LBS MINIMUM PER PHASE, UV INHIBITORS ADDED THROUGHOUT W/ADDITIONAL UV COATING ON OUTSIDE OF ARM TO PREVENT BLOOMING & BREAKDOWN OF FIBERGLASS INTEGRITY. ARMS FILLED W/A HIGH DENSITY CLOSED CELL EXPANDABLE FOAM. CROSSARM TESTED PER ASTM154-00AE1. ARMS W/MIN 60" DISTANCE BETWEEN OUTSIDE PHASES. DEADEND ATTACHMENTS TO BE 5/8" EYEBOLTS. PIN HOLES 11/16". MOUNTING BRACKETS HAVE 13/16" KEYHOLE ON TOP & 13/16" SLOT ON BOTTOM. MOUNTING HOLES ON 12" CENTERS W/TOP AT 3/8" FROM TOP OF SLOT. CENTER MOUNT W/A DUAL GUY ATTACHMENT WITH 13/16" HOLES RATED AT 10,000 LB MIN PER HOLE THE CROSSARM SHALL HAVE A MAXIMUM ALLOWABLE DEFLECTION OF 0.33 INCHES PER 1000 POUND. MANUFACTURING PER QPL EL-14240. REPLACES WOOD DEADEND ARM CSN 0000001105 PER DISTRIBUTION STANDARDS COMMITTEE 8/6/2003.</p> <p>Approved Brands: QPL #EL-14240 MPS (PY10SD149-2E-SM) MPS (PY10SD005-2E-SM) Shakespeare (XDB120G12242AE)</p>
49		5663	ea	<p>CONNECTOR, terminal, compression, for 795 MCM AC, all aluminum with inhibitor, 2-hole pad, 1-3/4 inch hole spacing, tin plated. Pad width to be no wider than 1.75 inches. Must be compatible with Burndy crimp die #724 & permanently labeled die 724.</p> <p>Approved Brands: QPL #EL-132 BURNDY (YCAK39A-2G3)</p>

50		9797	ea	<p>CROSSARM, FIR 10 FT LONG X 3-3/4 IN X 4-3/4 IN, PENTA TREATED. On Qualified Products List EL396</p> <p>Approved Brands: QPL #EL-396 BROOKS DISTRAN WOOD HUGHES BROS PENNINGTON</p>
51		9796	ea	<p>CROSSARM, 6 PIN, 8 FOOT LONG X 3-1/2 INCH X 4-1/2 INCH MINIMUM, PENTA TREATED TO SIX (6) POUNDS FINAL RETENTION, IN ACCORDANCE WITH ATTACHED ELECTRIC DEPARTMENT DRAWING. ON QUALIFIED PRODUCTS LIST EL-083. CROSSARM, 6 pin, 3 1/2" x 4 1/2" x 8' penta treated, in accordance with COA drawing.</p> <p>Approved Brands: QPL #EL-83 DISTRAN WOOD HUGHES BROS PENNINGTON W BROOKS</p>
52		22720	EA	<p>CUTOUT SHALL BE RATED 15KV, 100 AMP CONTINUOUS CURRENT, FOR OPERATION ON A 12.5KV SYSTEM. CUTOUT SHALL BE POLYMER WITH A 110KV BIL. CUTOUT SHALL HAVE AN INTERRUPTING RATING OF 10,000A SYMMETRICAL, 16,000A ASYMMETRICAL. CUTOUT SHALL BE DESIGNED TO BE INTERCHANGEABLE WITH OTHER MANUFACTURERS FUSEHOLDERS. FUSE TUBE LINER SHALL BE SYNTHETIC BONE FIBER MATERIAL, OR APPROVED EQUAL.</p> <p>Approved Brands: ABB (X1JCNNLM11) ALUMA FORM (CSG15-100A-110-CB-16KA) COOPER POWER (S4BAP0A) HUBBELL (TP710114P084) MPS (SC15HG116-D)</p>
53		22721	EA	<p>CUTOUT SHALL BE RATED 15KV, 100 AMP CONTINUOUS CURRENT, FOR OPERATION ON A 12.5KV SYSTEM. CUTOUT SHALL BE POLYMER WITH A 110KV BIL. CUTOUT SHALL HAVE AN INTERRUPTING RATING OF 10,000A SYMMETRICAL, 16,000A ASYMMETRICAL. CUTOUT SHALL BE DESIGNED TO BE INTERCHANGEABLE WITH OTHER MANUFACTURERS FUSEHOLDERS. FUSE TUBE LINER SHALL BE SYNTHETIC BONE FIBER MATERIAL, OR APPROVED EQUAL. CUTOUT SHALL UTILIZE A LINKBREAK LEVER TO MECHANICALLY BREAK FUSELINK ELEMENT.</p> <p>Approved Brands: HUBBELL (TP720114P084) ALUMA FORM (CSG15-LK-100A-110-CB16KA)</p>
54		18198	ea	<p>CROSSARM, TANGENT, HEAVY DUTY GRAY FIBERGLASS, 8 FOOT, BRACKET ASSEMBLY WITH 12 INCH BOLT HOLE SPACING WITH TOP HOLE SLOTTED, NO GUY ATTACHMENT, RATED FOR 8,000 LBS ULTIMATE LOAD FOR OUTSIDE POSITIONS/RATING FOR USING ALL FOUR POSITIONS WOULD BE 5,700 LBS. PER POSITION. 4-WIRE POSITIONS DRILLED AS PER AE DWG #1120-15. GRAY IN COLOR. ON QUALIFIED PRODUCTS LIST EL14249. THE CROSSARM SHALL HAVE A MAXIMUM ALLOWABLE DEFLECTION OF 0.53 INCHES PER 1000 POUNDS.</p> <p>Approved Brands: QPL #EL14249 CREATIVE PULTRUSIONS (CP3000 – HT7096100P) PUP I (TB300009604X2) SHAKESPEARE (HTB096N12602)</p>
55		UNUSED		

56		21883	ea	<p>SWITCH, AIR, INTERRUPTER, 900AMP, FIBERGLASS BASE, 15KV,3 POLE, HORIZONTAL ARM, 110KV BIL, 40,000 AMPS MOMENTARY. SWITCH TO HAVE A 1200 AMP CONTINUOUS RATING IN STILL AIR WITH THE MAXIMUM CONTACT TEMP NOT TO EXCEED 90 DEGREE C IN 40 DEGREE C AMBIENT AIR TEMP. THIS 1200 AMP SWITCH WILL BE USED FOR 900AMP APPLICATIONS. THE SWITCH SHALL BE MOUNTED ON THE TOP OF THE BASE IN A HORIZONTAL POSITION. THE CONTROL ROD SHALL HAVE A MINIMUM OF 40FT OF VERTICAL ROD LENGTH. THE CONTROL ROD SHALL BE ROTATING. THE TOP SECTION OF THE CONTROL ROD SHALL EXTEND FROM THE POLE TO APPROX 30 DEGREES TO A POINT NO CLOSER THAN THE MIDDLE PHASE AT THE SWITCH. THIS SECTION OF THE POLE SHALL BE FULLY RATED FIBERGLASS. THE CONTROL MECHANISM SHALL BE FURNISHED WITH A MINIMUM OF 3 INTERPHASE GUIDES. SWITCH SHALL BE A SPADE TYPE WITH HANDLE AND GROUNDING STRAP. SWITCH SHALL BE DELIVERED PREASSEMBLED, ADJUSTED AND READY TO HANG, FOR RISER MOUNTING. EACH TERMINAL PAD SHALL BE ONE PIECE OF CAST BRONZE 1/2 INCH THICK WITH A NEMA TWO HOLE BOLT PATTERN TO ACCOMIDATE .5 INCH BOLTS AND SHALL BE TIN PLATED. THE BASE OF EACH TERMINAL PAD SHALL BE 1.75 INCHES THICK. SWITCH SHALL HAVE PROVISIONS FOR MOUNTING 6 ARRESTERS. SWITCH SHALL ALSO HAVE PROVISIONS FOR U STRAPS AND J BOLTS. ON QPL EL-1498. THIS ITEM REPLACES ITEM NUMBER 1299. QPL #EL-1498</p> <p>Approved Brands: S&C (137392R2-E-A2-Z5-T203)</p>
57		6813	ea	<p>DEADEND CLAMP, side loading, bolted with 2 U-bolts, 3/8" diameter minimum. All steel parts shall be galvanized. Body strength shall be 1 2,000 lbs. minimum. Sag eye strength shall be 8,000 lbs. minimum. Clamp size shall accommodate 795 MCM wire.</p> <p>Approved Brands: QPL #EL-773 HPS (ADEZ-116-N) MPS (ASO-1160-2-N) MPS (HDSO-116)</p>
58		820	ea	<p>INSULATOR, DEADEND/SUSPENSION, 15 KV, POLYMER TYPE, DISTRIBUTION CLASS, WITH TONGUE AND CLEVIS END FITTINGS, SHALL MEET REQUIREMENTS OF IEEE 1024. LENGTH SHALL BE BETWEEN 12 INCHES AND 13.5 INCHES, LEAKAGE SHOULD NOT BE UNDER 15.5 INCHES, AC DRY FLASHOVER SHOULD NOT BE LESS THAN 108kv,AC WET FLASHOVER SHOULD NOT BE UNDER 83kv. ON QUALIFIED PRODUCTS LIST EL-1413.</p> <p>Approved Brands: QPL EL-1413 ADVANCED RUBBER (ARP-15SKCE-S) GLP HI-TECH (DS-15) K-LINE (KL-15ASCTM) MPS (DS-15M) HPS (401015-0215) PPC INSULATORS (PDEI-15) VICTOR (8215) SEVES (PDEI-15)</p>
59		6611	ea	<p>INSULATOR, GUY STRAIN,5/8" OR 3/4" FIBERGLASS ROD, MUNSEL GRAY IN COLOR, 21,000 LB. ULTIMATE STRENGTH, CLEVIS/THIMBLE-EYE,HOT-DIPPED GALVANIZED END FITTINGS. 8 FT. ON QUALIFIED PRODUCTS LIST EL-1084.</p> <p>Approved Brands: QPL #EL-1084 ALUMA FORM (FGS21-96CT) HPS (GS21096CP) HUGHES BROS (CF694CT-96) MPS (GCTE21-96)</p>

60		6553	ea	<p>INSULATOR, PIN TYPE, RADIO NOISE FREE, FOR US ON 12.5 KV GROUNDED "Y" SYSTEM, EE1-NEMA CLASS 55-4, ANSI 70 GRAY, GROOVE DIAMETER 2". ON QUALIFIED PRODUCTS LIST EL-048</p> <p>Approved Brands: QPL #EL-048 CST (1.181) POWER LINE (P554GR) LAPP INSLTOR (6183R-70) PORCELAIN PRODUCTS (366S) SANTANA (PI-23152) MPS (DP55-4) (formerly DULHUNTY POWER) VICTOR (6R) ELECTRO PORC (P554GR)</p>
61		1278	ea	<p>PIN, INSULATOR, F-NECK, 5" ABOVE ARM, 1-1/2" LONG SHANK BY 5/8" DIA., 1" NYLON THREADS, WITH LOCK WASHER AND NUT. ON QUALIFIED PRODUCTS LIST EL-1488.</p> <p>Approved Brands: QPL EL-1488 HPS (886P) MPS (J221Z)</p>
62		1279	ea	<p>PIN, INSULATOR, 5" ABOVE ARM, 5-3/4" LONG SHANK BY 5/8" DIA., 1" INCH NYLON THREADS ONLY, WITH SQUARE WASHER AND NUT. ON QUALIFIED PRODUCTS LIST EL-1488 ORDER.</p> <p>Approved Brands: QPL EL-1488 HPS (881P) MPS (J203Z) POWER LINE (P203Z)</p> <p style="text-align: right;">Updated 10/18/2013</p>
63		1280	ea	<p>PIN, INSULATOR, POLE TOP, FIBERGLASS, 1" NYLON THREADS, ROD IS 1-1/2" DIA. X 18" LONG, 8" BOLT HOLE SPACING, MINIMUM ULTIMATE STRENGTH RATINGS OF 2500 LBS. VERTICAL, 1200LBS. LONGITUDINAL, & 1200 LBS. TRANSVERSE. POLE TOP PIN MUST BE 21 3/8" FROM THE TOP MOUNTING HOLE TO THE TOP OF THE PIN. ON QUALIFIED PRODUCTS LIST EL-1489.</p> <p>Approved Brands: QPL #EL-1489 HPS (RPM-182)</p>
64		1282	ea	<p>PIN, insulator, pole top, 18 in, 1 in threaded nylon head, 3 mounting holes to accommodate 5/8 in hardware, 5 in bolt hole spacing bottom to middle, 8 in bolt hole spacing bottom to top, hot dipped galvanized.</p> <p>Approved Brands: QPL #EL-1490 HPS (2170P) Hughes Brothers (2770-B18-C5-100) MPS (J1368Z)</p>
64.1	496	1292	ea	<p>SPLICE, 15 KV, 1/0 AWG ALUMINUM, WITH COLD SHRINK JACKET DIAMETER RANGE OF 0.637 - 0.900", KIT SUPPLIED WITH COMPRESSION CONNECTOR. COMPRESSION CONNECTOR AND NEUTRALS CONNECTOR ON QUALIFIED PRODUCTS LIST EL-1494</p> <p>Approved Brands: QPL #EL-1494 3M (5411A-CI-1/0) TYCO-DULMISN (CSJA-1521AE)</p>

65		15993	ea	SWITCH, DISCONNECT, SINGLE POLE, 15 KV, 900 AMP. HOOK STICK OPERATED, 110 KV BIL 40,000 AMP MOMENTARY RATING, POLYMER INSULATORS, SUITABLE FOR INVERTED OR VERTICAL MOUNTING ON 3-3/4 INCHES X 4-3/4 INCHES CROSS ARM. SWITCH TO BE COMPLETE W/HANGER BRACKET AND ATTACHMENT TO PERMIT USE OF "LOAD BUSTER" ATTACHMENT. TERMINALS SHALL BE 2 HOLE, TIN PLATED. PER STANDARDS COMMITTEE ON 9/25/02 Approved Brands: QPL #EL-784 S&C ELECTRIC (4752R10-E-D2) HPS (M3D-96B)
66		UNUSED		
66.1	538	5536	ea	TERMINAL, BUSHING PLUG, 8.3/14.4 KV FOR TRANSFORMER BUSHING WELL, LOAD BREAK. On Qualified Products List EL942 Approved Brands: QPL EL-1127 HPS (215BI) COOPER/RTE (LBI215) T & B (1601A4) RICHARDS MFG (21LB1)
67		5483	ea	TIE, PREFORMED, DOUBLE PIN CONSTRUCTION, 795 ALL ALUMINUM (ARBUTIS), FOR USE ON COMBINATION C AND F NECK 2 7/8" DIAMETER ANSI 55-4 CLASS INSULATOR. COLOR CODED GREEN. ON QUALIFIED PRODUCTS LIST EL-209 Approved Brands: QPL #EL-209 MOSDORFER (DSTCF1096) PREFORMED (DST-0161)
68		880	ea	TIE, PREFORMED, 4/0, FOR USE ON SECONDARY CONDUCTORS. ON QUALIFIED PRODUCTS LIST EL-190 Approved Brands: QPL #EL-190 Dulmison (SPL-1325P) MOSDORFER (SPL0588) PREFORMED (SPL-1358-P)
69		4537	ft	WIRE, ACSR, BARE, IN ACCORDANCE WITH ASTM SPECIFICATION, B232 (FOR CONCENTRIC LAY ACSR) AND ASTM SPECIFICATION B245 (FOR STANDARD WEIGHT), ZINC COATED STEEL CORE WIRE FOR ACSR WIRE, CODE NAME RAVEN. ON QUALIFIED PRODUCTS LIST EL669. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 6500 FT +/- 10% Approved Brands: QPL #EL-669 Nexans CME Essex BICC GENERAL Southwire Alcan Cable

70		4530	Lg reel/ft	<p>WIRE, 795 MCM (37 STRAND) ALL ALUMINUM, HARD DRAWN BARE, CLASS AA, IN ACCORDANCE WITH ASTM SPEC. B-231, FOR CONCENTRIC LAY STRANDED ALUMINUM CONDUCTORS, CODE NAME ARBUTUS. ON QUALIFIED PRODUCTS LIST EL-10. WIRE SHALL BE FURNISHED ON RETURNABLE LG STEEL REELS. MAX FLANGE MEASUREMENT 84" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 50 1/4". PURCHASING FOOTAGE SHALL BE 10,400 FT +/- 10%. 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB</p> <p>Approved Brands: QPL #EL-10 ALAN CABLE BICC GENERAL CME ESSEX NEHRING ELEC NEXANS SOUTHWIRE</p> <p>Updated 3/12/15 Per MAX-2</p>
71		1458	Sm reel/ft	<p>WIRE, 795 MCM (37 STRAND) ALL ALUMINUM, HARD DRAWN BARE, CLASS AA, IN ACCORDANCE WITH ASTM SPEC. B-231, FOR CONCENTRIC LAY STRANDED ALUMINUM CONDUCTORS, CODE NAME ARBUSTUS. WIRE TO BE FURNISHED ON RETURNABLE SMALL STEEL REEL, MAX FLANGE MEASUREMENT OF 66" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 44". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. PURCHASING FOOTAGE SHALL BE 5000 FT PLUS OR MINUS 10%. ON QUALIFIED PRODUCTS LIST EL10.</p> <p>Approved Brands: QPL #EL-10 ALCAN CABLE BICC GENERAL CME ESSEX NEHRING ELEC NEXANS SOUTHWIRE</p>
72		851	ft	<p>WIRE, 4/0 AWG, 7 STRAND, ALL ALUMINUM (AAC), HARD DRAWN BARE, CLASS AA, CONCENTRIC LAY LTRANDED ALUMINUM CONDUCTORS. CODE NAME OXLIP. 7000 PURCHASING FT PER REEL +/- 10%. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 32".</p> <p>ON QPL EL-1423.</p> <p>Approved Brands: QPL #EL-1423 ALAN CABLE BICC GENERAL CME ESSEX NEHRING ELEC NEXANS SOUTHWIRE</p>
73		unused		

74		1415	ft	WIRE, GUY 3/8 IN EXTRA HIGH STRENGTH 250 FT/COIL GALVANIZED CLASS A, THIS STEEL SHALL COMPLY WITH ASTM A-475 LATEST REVISION APPLICABLE TO THE GRADES AND SIZES LISTED. ON QUALIFIED PRODUCTS LIST EL-689 Approved Brands: QPL #EL-689 Berkert NTNL STRAND DEACERO
75		889	ft	WIRE, GUY, STEEL, GALVANIZED CLASS A, 7/16 INCH, EXTRA HIGH STRENGTH, (250 FOOT/COIL). THIS STEEL SHALL COMPLY WITH ASTM A-475-78 LATEST EDITION APPLICATION TO THE GRADES AND SIZES LISTED. ON QUALIFIED PRODUCTS LIST EL-689 Approved Brands: QPL #EL-689 Berkert NTNL STRAND
XFMR DIST 1PH POLE 2 BUSH W/ARRESTER (DOE) SPEC E-1579 DATED 11/7/2011				
76		19509	EA	TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 25KVA, 277/480 VOLT, 2 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION : 0-19509 REPLACES 0-1910 APPROVED BRANDS: SPEC E-1579 LATEST REVISION GENERAL ELEC CARTE ERMCO CNTRL MOLONY COOPER POWER HOWARD INDUS POWER PARTNERS
77		19510	EA	TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 50KVA, 277/480 VOLT, 2 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION; 0-19510 REPLACES 0-1911 APPROVED BRANDS: SPEC E-1579 LATEST REVISION GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS
78		19511	EA	TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 75KVA, 277/480 VOLT, 2 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19511 REPLACES 0-1912 APPROVED BRANDS: SPEC E-1579 LATEST REVISION GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS

79		19512	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 100KVA, 277/480 VOLT, 2 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19512 REPLACES 0-1913</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>
80		19513	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 167KVA, 277/480 VOLT, 2 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19513 REPLACES 0-1914</p> <p>CHANGED ROP FOR ESDNORTH FROM 2 TO -1 TO PREVENT REQUISITIONS PER T.BREEDING DKOKAS 03JAN11</p> <p>CHANGED ROP FOR ESDNORTH FROM -1 TO 3 TO ACTIVATE REQUISITIONS AS ITEM # 1914 STOCK DEPLETED DKOKAS 17JAN12.</p> <p>APPROVED BRANDS: SPEC E-1579 DATED LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>
81		19514	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 10KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC E-1579 LATEST REVISION 0-19514 REPLACES 0-1878</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>
82		19515	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 25KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19515 REPLACES 0-1829</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>

83		19516	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 50KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19516 REPLACES 0-1830</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p> <p>Updated 10/27/14 Per MAX-2</p>
84		19517	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 75KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19517 REPLACES 0-1879</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p> <p>Updated 10/27/14 Per MAX-2</p>
85		19518	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 100KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19518 REPLACES 0-1880</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>
86		19519	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, POLE MOUNT, DOE, 167KVA, 120/240 VOLT, 3 WIRE, 2 HV BUSHINGS WITH TANK MOUNTED ARRESTER, SPEC 1579 LATEST REVISION 0-19519 REPLACES 0-1841</p> <p>APPROVED BRANDS: SPEC E-1579 LATEST REVISION</p> <p>GENERAL ELEC CARTE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS POWER PARTNERS</p>
PAD-MOUNTED DIST. TRANSFORMER, 1 PHASE, 120/240V				

87		19520	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 25 KVA, 120/240 VOLT, WITH BAYONET FUSING, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581</p> <p>GE ABB ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>
88		19521	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 50 KVA, 120/240 VOLT, WITH BAYONET FUSING, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581</p> <p>ABB GE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>
89		19522	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 75 KVA, 120/240 VOLT, WITH BAYONET FUSING, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581</p> <p>ABB GE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>
90		19523	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 100 KVA, 120/240 VOLT, WITH BAYONET FUSING, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581</p> <p>ABB GE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>
91		19524	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 167 KVA, 120/240 VOLT, OPEN FRONT DESIGN, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581</p> <p>ABB GE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>

92		19525	EA	<p>TRANSFORMER, DISTRIBUTION, SINGLE PHASE, PAD MOUNT, 250 KVA, 120/240 VOLT, OPEN FRONT DESIGN, PER SPEC E-1581 LATEST REVISION</p> <p>APPROVED BRANDS: SPEC E-1581 ABB GE ERMCO CENTRAL MALONEY COOPER POWER HOWARD INDUS</p>
MATERIALS NOT ON THE CERTIFIED STOCK LIST, ITEMS 1-654				
1		4727	EA	<p>SPACER BUS BAR COPPER 1-1/4 DIA 2 IN LENGTH</p> <p>Approved Brands: QPL #EL1099 APPLEGATE (UNKNOWN) DOSSERT (S125-50-200) FARMERS COPPER (2040-05-08) HOMAC (CSPAC-2.000) I&R MACHING (1008 REV. A) MANGO COPPER (UNKNOWN) MVA POWER INC (MVR12252) OIL FIELD COMPONENTS, INC (2013-28-09) RICHARDS MFG (UNKNOWN) TANCO INC. (UNKNOWN) THERMOWELD (UNKNOWN)</p>
2		4728	EA	<p>SPACER BUS BAR COPPER 1-1/4 DIA 2-3/8"</p> <p>Approved Brands: QPL #EL1099 APPLEGATE (UNKNOWN) DOSSERT (S125-50-237) FARMERS COPPER (2040-05-09) HOMAC (CSPAC2.375) I&R MACHING (1009 REV. A) MANGO COPPER (UNKNOWN) MVA POWER INC (UNKNOWN) OIL FIELD COMPONENTS, INC (2013-28-10) RICHARDS MFG (UNKNOWN) TANCO INC. (UNKNOWN) THERMOWELD (CD-0001)</p>
3-11		unused		
12		unused		
13		6506	ea	<p>DISK, ANCHOR. DISK SHALL BE STEEL WITH A MINIMUM THICKNESS OF .187" AND CAPABILITIES TO ACCEPT A 1" ANCHOR ROD. DISK SHALL BE MASTIC ASPHALT COATED TO INHIBIT CORROSION.</p> <p>On Qualified Products List EL750</p> <p>Approved Brands: QPL #EI-750 A.B. CHANCE (C102-2054) CWA ANCHOR (DA112418)</p>
14		654	ea	<p>ANCHOR, DOUBLE 8-10 INCH HELIX, SCREW TYPE, 1-3/4 INCH SQUARE SHAFT, 10,000 FT LBS INSTALLATION TORQUE, 37 INCH TOTAL LENGTH, GALVANIZED,</p> <p>ON QUALIFIED PRODUCTS LIST EL-1403</p> <p>Approved Brands: QPL #EI-1403 HPS (C110-0227) EARTH CONTACT PRODUCTS (TAF-175-36-8-10)</p>

15		643	ea	ANCHOR, Triple 8-10-12 inch helix, screw type, galvanized, 1-1/2 inch square shaft, 7,000 FT LBS installation torque, 64 inch total length, galvanized Approved Brands: QPL# EL-1402 HPS (C110-0386) MPS (D-6636-7) EARTH CONTACT PRODUCTS (TAF-150-66-8-10-12)
16		656	ea	ADAPTER, ANCHOR, TRIPLE EYE, 1-3/4 INCH SQUARE SHAFT, 10,000 FT LBS INSTALLATION TORQUE, 18 INCH TOTAL LENGTH, GALVANIZED, ON QUALIFIED PRODUCTS LIST EL-1403 Approved Brands: QPL #EL-1403 HPS (T110-0465) EARTH CONTACT PRODUCTS (TAA-175-003 SQUARE)
17		655	ea	EXTENSION, ANCHOR, 1-3/4 INCH SQUARE SHAFT, 10,000 FT LBS INSTALLATION TORQUE, 37 INCH TOTAL LENGTH, GALVANIZED, ON QUALIFIED PRODUCT LIST EL-1403 Approved Brands: QPL #EL-1403 HPS (C110-0136) EARTH CONTACT PRODUCTS (TAE-175-42)
18		unused		
19		8412	ea	BOLTS, MACHINE, 1/2 X 4, HEX HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. On Qualified Products List EL120 Approved Brands: QPL #EL-120 ALLIED BOLT (10037) COOPER POWER (DF2B4) MPS (J8704) ALUMA FORM (AF8704)
20		8413	ea	BOLTS, MACHINE, 1/2 X 6, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. On Qualified Products List EL120 Approved Brands: QPL #EL-120 MPS (J8706) A.B. CHANCE (8706) ALLIED BOLT (8209) COOPER POWER (DF2B6) ALUMA FORM (AF8706)
21		8414	ea	BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NU ASSEMBLED. On Qualified Products List EL120 Approved Brands: QPL #EL-120 MPS (J8708) A.B. CHANCE (8708) ALLIED BOLT (8110) COOPER POWER (DF2B8) ALUMA FORM (AF8708)

22		8415	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED.</p> <p>On Qualified Products List EL120</p> <p>Approved Brands: QPL #EL-120</p> <p>MPS (J8712)</p> <p>A.B. CHANCE (8712)</p> <p>ALLIED BOLT (8112)</p> <p>COOPER POWER (DF2B12)</p> <p>ALUMA FORM (AF8712)</p>
23		8416	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED.</p> <p>5/8 DIAMETER BY 3 INCHES LONG</p> <p>On Qualified Products List EL121</p> <p>Approved Brands: QPL #EL-121</p> <p>MPS (J8803)</p> <p>ALLIED BOLT (8124)</p> <p>COOPER POWER (DF3B3)</p>
24		8417	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED.</p> <p>On Qualified Products List EL121</p> <p>Approved Brands: QPL #EL-121</p> <p>MPS (J8801-1/2)</p> <p>HUGHES BROS (B61-1/2-1-1/4)</p> <p>ALLIED BOLT (8121)</p> <p>COOPER POWER (DF3B150)</p>
25		8422	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED.</p> <p>5/8 DIAMETER X 18 INCHES LONG</p> <p>On Qualified Products List EL121</p> <p>Approved Brands: QPL #EL-121</p> <p>MPS (J8818)</p> <p>POWER LINE (P8818)</p> <p>A.B. CHANCE (8818)</p> <p>ALLIED BOLT (8230)</p> <p>COOPER POWER (DF3B18)</p> <p>ALUMA FORM (AF8818)</p>
26		8423	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 5/8 X 20 INCHES</p> <p>On Qualified Products List EL121</p> <p>Approved Brands: QPL #EL-121</p> <p>MPS (J8820)</p> <p>POWER LINE (P8820)</p> <p>A.B. CHANCE (8820)</p> <p>ALLIED BOLT (8232)</p> <p>COOPER POWER (DF3B20)</p> <p>ALUMA FORM (AF8820)</p>

27		8424	ea	<p>BOLTS, MACHINE, 5/8" X 24", SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED, ON QPL EL-121</p> <p>On Qualified Products List EL121</p> <p>Approved Brands: QPL #EL-121</p> <p>MPS (J8824)</p> <p>POWER LINE (P8824)</p> <p>A.B. CHANCE (8824)</p> <p>ALLIED BOLT (8236)</p> <p>COOPER POWER (DF3B24)</p> <p>ALUMA FORM (AF8824)</p>
28		8428	ea	<p>BOLT, MACHINE, SQUAREHEAD, ROLLED THREADS, HOTDIP, GALVANIZED FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 5/8 X 24 INCHES</p> <p>On Qualified Products List EL122</p> <p>Approved Brands: QPL #EL-122</p> <p>A.B. CHANCE (8910)</p> <p>HUGHES BROS (B710-4)</p> <p>MPS (J8910)</p> <p>ALLIED BOLT (8240)</p> <p>COOPER POWER (DF4B10)</p> <p>ALUMA FORM (AF8910)</p>
29		8431	ea	<p>BOLT, MACHINE, SQUAREHEAD, ROLLEDTHREADS, HOTDIP, GALVANIZED FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 3/4 X 16 INCHES</p> <p>On Qualified Products List EL122</p> <p>Approved Brands: QPL #EL-122</p> <p>A.B. CHANCE (8916)</p> <p>HUGHES BROS (B716-6)</p> <p>MPS (J8916)</p> <p>ALLIED BOLT (8246)</p> <p>COOPER POWER (DF4B16)</p> <p>ALUMA FORM (AF8916)</p>
30		8432	ea	<p>BOLT, MACHINE, SQUAREHEAD, ROLLEDTHREADS, HOTDIP, GALVANIZED FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 3/4 X 18 INCHES</p> <p>On Qualified Products List EL122</p> <p>Approved Brands: QPL #EL-122</p> <p>MPS (J8918)</p> <p>HUGHES BROS (B718-6)</p> <p>A.B. CHANCE (8918)</p> <p>ALLIED BOLT (8248)</p> <p>COOPER POWER (DF4B18)</p> <p>ALUMA FORM (AF8918)</p>
31		8433	ea	<p>BOLT, MACHINE, SQUAREHEAD, ROLLEDTHREADS, HOTDIP, GALVANIZED FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 3/4 INCHES X 18 INCHES</p> <p>On Qualified Products List EL122</p> <p>Approved Brands: QPL #EL-122</p> <p>A.B. CHANCE (8920)</p> <p>MPS (J8920)</p> <p>HUGHES BROS (B720-6)</p> <p>ALLIED BOLT (8250)</p> <p>COOPER POWER (DF4B20)</p> <p>ALUMA FORM (AF8920)</p>

32		8437	ea	<p>BOLTS, CARRIAGE, GALVANIZED, 3/8" X 4", WITH A MINIMUM THREAD LENGTH OF 1 3/4".</p> <p>On Qualified Products List EL366</p> <p>Approved Brands: QPL #EL-366</p> <p>A.B. CHANCE (8634)</p> <p>MPS (J8634)</p> <p>POWER LINE (P8634)</p> <p>ALLIED BOLT (926)</p> <p>COOPER POWER (DF1C4)</p> <p>ALUMA FORM (AF863412)</p>
33		8439	ea	<p>EYEBOLT, FORGED, ROLLED THREADS, HOT DIP GALVANIZED, 5/8" DIAMETER, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. 5/8 INCH DIAMETER X 10 INCHES LONG. MINIMUM TENSILE STRENGTH SHALL BE 12400LBS OR GREATER ON QPL EL115</p> <p>Approved Brands: QPL #EL-115</p> <p>A.B. CHANCE (29960)</p> <p>MPS (J9410)</p> <p>POWER LINE (P9410)</p> <p>ALLIED BOLT (4103)</p> <p>COOPER POWER (DF2E10)</p> <p>ALUMA FORM (AF9410)</p>
34		871	ea	<p>BRACE, cross arm, wood, 60 in span, 18 in drop reversible, 9/16 in hole at arm fitting and 11/16 in hole at pole fitting.</p> <p>Approved Brands: QPL #EL-1544</p> <p>ALUMA FORM (RA-6018)</p> <p>BARFIELD (BAR-6018)</p> <p>HUGHES BROS (2045-CC30-9-11)</p> <p>MPS (JA4760R)</p>
35		1200	ea	<p>BRACE, Wood, Alley Arm, 5 Ft., Reversible, Cross Section Dimensions of Wood are 2-11/16" x 2- 11/16", B34</p> <p>Approved Brands: QPL EL-1468</p> <p>Aluma-Form (RAAB-60)</p> <p>Hughes (1096.5R)</p>
36		8687	ea	<p>BOLT, DOUBLE ARMING, HOT DIP GALVANIZED, FULL LENGTH THREADED, FURNISHED WITH FOUR SQUARE NUTS ASSEMBLED.</p> <p>On Qualified Products List EL112</p> <p>Approved Brands: QPL #EL-112</p> <p>HPS (8866)</p> <p>HUGHES BROS (TR616-F)</p> <p>MPS (J8866)</p> <p>ALLIED BOLT (5956)</p> <p>COOPER POWER (DF2D16)</p> <p>ALUMA FORM (AF8866)</p>
37		8688	ea	<p>BOLT, DOUBLE ARMING, HOT DIP GALVANIZED, FULL LENGTH THREADED, FURNISHED WITH FOUR SQUARE NUTS ASSEMBLED. 5/8 X 18 INCHES</p> <p>On Qualified Products List EL112</p> <p>Approved Brands: QPL #EL-112</p> <p>HPS (8868)</p> <p>HUGHES BROS (TR618-F)</p> <p>MPS (J8868)</p> <p>ALLIED BOLT (5958)</p> <p>COOPER POWER (DF2D18)</p> <p>ALUMA FORM (AF8868)</p>

38		8689	ea	<p>BOLT, DOUBLE ARMING, HOT DIP GALVANIZED, FULL LENGTH THREADED, FURNISHED WITH FOUR SQUARE NUTS ASSEMBLED. On Qualified Products List EL112</p> <p>Approved Brands: QPL #EL-112 HPS (8870) HUGHES BROS (TR620-F) MPS (J8870) ALLIED BOLT (5960) COOPER POWER (DF2D20) ALUMA FORM (AF8870)</p>
39		8693	ea	<p>BOLT, DOUBLE ARMING, HOT DIP GALVANIZED, FULL LENGTH THREADED, 3/4" X 22" FURNISHED WITH FOUR SQUARE NUTS ASSEMBLED. ON QUALIFIED PRODUCTS LIST EL-112</p> <p>Approved Brands: QPL #EL-112 HPS (8892) HUGHES BROS (TR722-F) MPS (J8892) ALLIED BOLT (5988) COOPER POWER (DF3D22) ALUMA FORM (AF8892)</p>
40		8695	ea	<p>BOLT, DOUBLE ARMING, HOT DIP GALVANIZED, FULL LENGTH THREADED, 3/4" 3/4" X 24", FURNISHED WITH FOUR SQUARE NUTS ASSEMBLED. ON QUALIFIED PRODUCTS LIST EL-112</p> <p>Approved Brands: QPL #EL-112 HPS (8894) HUGHES BROS (TR724-F) MPS (J8894) ALLIED BOLT (5990) COOPER POWER (DF3D24) ALUMA FORM (AF8894)</p>
41		8510	ea	<p>NUTS, HEX, 1/2 INCH, SILICON BRONZE, ALLOY 651, AMERICAN NATIONAL COARSE SERIES THREADS. CERTIFIED TEST REPORTS SHALL ACCOMPANY ALL DELIVERIES THAT VERIFIES COMPLIANCE WITH ALLOY 651 CHARACTERIICS</p> <p>Approved Brands: QPL #EL432 BELL FASTENR (UNKNOWN) BURNDY (UNKNOWN) EVERDUR BOLT (UNKNOWN) TX BOLT & SC (UNKNOWN)</p>
42		8361	ea	<p>BOLT, HEX HEAD, 1/2 INCH X 2 INCH, SILICON BRONZE, ALLOY 651, AMERICAN NATIONAL COARSE SERIES THREADS. CERTIFIED TEST REPORTS SHALL ACCOMPANY ALL DELIVERIES</p> <p>Approved Brands: QPL #EL431 BELL FASTENR (183HCC080-032) BURNDY (UNKNOWN) EVERDUR BOLT (UNKNOWN) FASTENAL COMPANY (74952) TX BOLT & SC (UNKNOWN)</p>

43		8362	ea	<p>BOLT, HEX HEAD, 1/2 INCH X 2-1/2 INCH, SILICON BRONZE, ALLOY 651, AMERICAN NATIONAL COARSE SERIES THREADS. CERTIFIED TEST REPORTS SHALL ACCOMPANY ALL DELIVERIES</p> <p>Approved Brands: QPL #EL431 ATP (UNKNOWN) BELL FASTENR (UNKNOWN) BURNDY (UNKNOWN) EVERDUR BOLT (UNKNOWN) STAINLESS (UNKNOWN) STAR (UNKNOWN) TX BOLT & SC (UNKNOWN)</p>
44		unused		
45		1418	ea	<p>BRACKET, CUTOUT, FOR MOUNTING ON CROSSARM, HOT DIP GALVANIZED, WITH BACK PLATE, SHALL ACCOMMODATE AN ARM OF AT LEAST 3-3/4 IN WIDE X 4-3/4 IN HIGH. THERE SHALL BE A MINIMUM OF 5 IN CLEARANCE BETWEEN THE CUTOUT MOUNTING BOLT AND THE CROSS ARM. ON QUALIFIED PRODUCTS LIST EL-1529</p> <p>Approved Brands: QPL #EL-1529 A.B. Chance (C206-0280) AMERICANMETAL (AM-26-WGC) Cooper (129001-8) Cooper (D63B1) MPS (J24711)</p>
46-47		unused		
48		1361	ea	<p>BRACKET, Mounting, Transformer, Clamp Type, 3 Phase Cluster, Aluminum, for 3-3KVA through 3-250KVA.</p> <p>Approved Brands: QPL #EL-1505 HPS (C15M3-6) Aluma-Form (15M3-6) MPS (M15M3-6)</p>
49-51		unused		
52		6581	ea	<p>BRACKET, STAND OFF FOR 2" TO 5" CONDUIT, GALVANIZED AFTER WELDING.</p> <p>On Qualified Products List EL944</p> <p>Approved Brands: QPL #EL-944 S&H MANUFACTURING (APP-2931) MPS (SK-260) SALCO (SALCO-2931) AMERICANMETAL (414SB) ATLAS (APP-2931) AUSTIN METER (SO-2) GRID POWER PRODUCTS (2921)</p>
53-56		unused		
57		1203	ea	<p>BRACKET, STANDOFF, FIBERGLASS ROD, 10-1/4" LONG, TO ACCOMMODATE ONE 5/8" MOUNTING BOLT, WITH 1" NYLON THREADS, MINIMUM ULTIMATE STRENGTH RATINGS OF 700 LBS VERT., 500 LBS LONG., AND 1500 LBS TRANS. FOR CENTER PHASE JUMPER ON 795 KCMIL AAC</p> <p>ON QUALIFIED PRODUCTS LIST EL-1469</p> <p>Approved Brands: QPL EL-1469 MPS (G1MAJ118DS5) HUGHES BROS (CF578-18)</p>
58-61		unused		

62		4673	ft	<p>CABLE,SINGLE CONDUCTOR,COPPER,600 VOLTS,SIZE #2 RHW2, PER ICEA PUBLICATION #S066-524. ON QUALIFIED PRODUCTS LIST EL885. SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 2000 FT +/- 10% .ON QPL EL885</p> <p>Approved Brands: QPL EL-885 ALAN WIRE ALCAN CABLE CME NEHRING ELEC OKONITE PRYSMIAN CBL SERVICE WIRE</p>
63		4674	ft	<p>CABLE,SINGLE CONDUCTOR,COPPER,600 VOLTS,SIZE #6 XLP INSULATION CROSS-LINKED POLYETHYLENE, PER ICEA PUBLICATION #S066-524, TO BE USED IN CONDUIT. ON QUALIFIED PRODUCTS LIST EL885. SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 3000 FT +/- 10% .1 (AE WILL CONTINUE TO USE IN ADDITION TO 0-1340 PER KC FAGEN 10/2000.)</p> <p>Approved Brands: QPL EL-885 ALAN WIRE Alcan Cable CME Nehring Elec Okonite PRYSMIAN CBL Service Wire (USE6BK)</p>
64		4672	ft	<p>CABLE,SINGLE CONDUCTOR,COPPER,600 VOLTS,SIZE 1/0,INSULATION CROSS-LINKED POLYETHYLENE,PER ICEA PUBLICATION #S066-524, TO USE IN CONDUIT. ON QUALIFIED PRODUCTS LIST EL885. SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB</p> <p>PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% . AE WILL CONTINUE TO USE IN ADDITION TO 0-1341 PER KC FAGEN 10/2000. MADE INSURANCE PER RICHARD BUTLER 11/03</p> <p>Approved Brands: QPL EL-885 ALAN WIRE Alcan Cable CME Nehring Elec Okonite PRYSMIAN CBL Service Wire (USE1/0BK)</p>
65		unused		

66		4533	ft	<p>CABLE,BARE STRANDED COPPER,TINNED,SOFT,#2, WIRE BEFORE STRANDING,SHALL BE SOFT OR ANNEALED COPPER TIN COATED CONFORMING BEFORE STRANDING TO ASTM B33, "SPECIFICATIONS FOR TINNED SOFT OR ANNEALED LEAD COATED AND LEAD ALLOY COATED AND LEAD ALLOY COATED SOFT COPPER WIRE," LATEST EDITION. ALL CONDUCTORS SIZES FURNISHED UNDER THIS SPECIFICATION SHALL HAVE ASTM CLASS A OR CLASS B STRANDING AND SHALL BE IN ACCORDANCE WITH ASTM-B8,LATEST EDITION, "SPECIFICATIONS FOR ONCENTRICALLY STRANDED COPPER CONDUCTORS." ON QUALIFIED PRODUCTS LIST EL-813. REEL SHALL BE NON-RETURNABLE WOOD. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 2400 FT +/- 10%.</p> <p>Approved Brands: QPL EL-813</p> <p>ALAN WIRE BICC Cable CME Essex Nehring Electric Works REPUBLIC WIRE Rockbestos Sevice Wire Southwire</p>
67-70		unused		
71		4534	ft	<p>CABLE,BARE STRANDED COPPER,TINNED,SOFT,BEFORE STRANDING,SHALL BE SOFT OR ANNEALED COPPER TIN COATED CONFORMING BEFORE STRANDING TO ASTM B33, COATED SOFT COPPER WIRE," LATEST EDITION. ALL CONDUCTORS SIZES FURNISHED UNDER THIS SPECIFICATION SHALL HAVE ASTM CLASS A OR CLASS B STRANDING AND SHALL BE IN ACCORDANCE ASTM B8, LATEST EDITION,"SPECIFICATIONS FOR CONCENTRICALLY STRANDED COPPER CONDUCTORS." ON QUALIFIED PRODUCTS LIST EL813. REEL SHALL BE NON-RETURNABLE WOOD. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT. 22" 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10%. 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB SPECIFICATIONS FOR TINNED SOFT OR ANNEALED LEAD COATED AND LEAD ALLOY</p> <p>Approved Brands: QPL #EL-813</p> <p>BICC Cable CME Wire and Cable Essex Nehring Electric Works Republic Wire Rockbestos Service Wire Southwire</p>
72		unused		

73		4536	ft	<p>CABLE,BARE STRANDED COPPER,TINNED,SOFT,THE WIRE BEFORE STRANDING, SHALL BE SOFT OR ANNEALED COPPER TIN COATED CONFORMING BEFORE STRANDING TO ASTM B33, "SPECIFICATIONS FOR TINNED SOFT OR ANNEALED LEAD COATED AND LEAD ALLOY COATED SOFT COPPER WIRE,"LATEST EDITION. ALL CONDUCTORS SIZE FURNISHED UNDER THIS SPEC. SHALL HAVE ASTM CLASS A OR CLASS B STRANDING AND SHALL BE IN ACCORDANCE WITH ASTM-B8, LATEST EDITION,"SPECIFICATIONS FOR CONCENTRICALLY STRANDED COPPER CONDUCTORS." ON QUALIFIED PRODUCTS LIST EL813. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 1000 FT.</p> <p>Approved Brands: QPL #EL-813 BICC Cable CME Wire and Cable Essex Nehring Electric Works Republic Wire Rockbestos Service Wire Southwire</p>
74-87		unused		
88		4664	1/C/F	<p>CABLE,NETWORK,1 CONDUCTOR,500 MCM,37 STRANDED COPPER,600 VOLTS. MAXIMUM ON QUALIFIED PRODUCTS LIST EL741 AND SPECIFICATION E-991. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% .</p> <p>Approved Brands: QPL #EL-742, Spec E-991 dated 11/12/87 AMER INSWIRE BICC GENERAL CME OKONITE PRYSMIAN CBL SOUTHWIRE</p>
89		19439	FT	<p>Cable, bare, 2000 kcmil, all aluminum conductor, AAC, concentric laystranded, 91 strands. Code word - COWSLIP Cable to be supplied on non-returnable wood reels with pressed in steel hubs.The hubs shall have a 3 1/16 inch or greater hole. Metal reels are not acceptable. The reels shall have a maximum diameter of 60 inches and a maximum width of 48 inches. The cable length per reel shall be 1000 feet.</p> <p>Approved Brands: ALCAN CABLE ALCATEL ALCOA BICC GENERAL CME ESSEX SOUTHWIRE</p>

90		421	3/C/F	<p>CABLE, NETWORK, 3 CONDUCTOR, 500 MCM, 37 STRAND COPPER, 600 VOLTS. 1500 LINEAR FEET PER REEL +/- 10%, 1500 PURCHASING FEET AND 500 CIRCUIT FEET PER REEL.</p> <p>REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT SHALL BE 50" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 32" ON QPL EL-741,</p> <p>Approved Brands: AMER INSWIRE BICC GENERAL CME OKONITE PRYSMIAN CBL SOUTHWIRE</p>
91		15475	ft	<p>CABLE, STATION CONTROL, 4 CONDUCTOR, 600 VOLT, #10. C CLASS, 19/22 STRAND, SOFT DRAWN, BARE COPPER CONDUCTOR.PER AE SPECIFICATION E-856 LATEST REVISION.</p> <p>8/7/00 REPLACES STK#0000004592 PER STEVE BOOHER. ** 5000 FT REELS ** K1 COLOR CODED. REELS TO HAVE 3-1/16 INCH PRESSED IN STEEL HUBS.</p> <p>Approved Brands: Spec E-856 LATEST REVISION BICC GENERAL ESSEX LAKE OKONITE ROCKBESTOS TAMAQUA SOUTHWIRE</p>
92-96		unused		The cable length per reel shall be 1000 feet.
97		1870	ft	<p>CABLE, TYPE UF-B, 90 DEGREE C. UNDERGROUND FEEDER, #12 AWG SOLID COPPER, 2 CONDUCTOR, ONE BLACK/ONE WHITE WITH BARE GROUND, 30 MILS MINIMUM INSULATION THICKNESS, 0.21 IN.- 0.45 IN. APPROX. OUTSIDE DIAMETER, AMPACITY AT 30 DEGREE C (86 DEGREE F) AMBIENT TEMP SHALL BE 20 AMPS, SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% . REPLACEMENT FOR 0000004606 FOR NEW ILLUMINATION CONSTRUCTION STANDARD PER PETER SOOSAY, ILLUMINATION ENGR. CUT OVER ON 12/1/99</p> <p>Approved Brands: Spec E-1040 ENCORE WIRE SOUTHWIRE UNITED COPPER IND ESSEX ROMEX</p>

98		4606	ft	<p>CABLE,TRAFFIC CONTROL 2 CONDUCTOR #12 STRANDED COPPER WITH BARE GROUND, 600 VOLT, 7 STRAND AS PER SPECIFICATION E-1040.COLOR CODING SHALL BE K1. On Qualified Products List EL567 AND PURCHASING SPEC E-1040. REEL SHALL BE NON-RETURNABLE WOOD. 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB MAX FLANGE MEASUREMENTS 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32". MAINTAIN SMALL QTY OF INSURANCE STOCK OF 0-4606 FOR MAINTENANCE OF EXISTING LINES. PURCHASING LENGTH IS 1500 FT +/- 10%. REPLACEMENT PART 0000001870 FOR NEW ILLUMINATION CONSTRUCTION STANDARD PER PETER SOOSAY, ILLUMINATION ENGR. CUT OVER ON 12/1/99</p> <p>Approved Brands: QPL#EL-567, Spec E-1040 dated 12/30/99</p> <p>ANIXTER BICC GENERAL CME ESSEX SERVICE WIRE LAKE TAMAQUA SOUTHWIRE</p>
99		1082	ft	<p>CABLE, TRIPLEXED, ALUMINUM, XLP 600V, 2/C, 3/0 WITH 1/0 NEUTRAL TIGHT WEAVE, CROSS LINKED POLYETHYLENE INSULATED URD TYPE. REEL SHALL BE NON-RETURNABLE WOOD. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 22" 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. CODE NAME HOLLINS ON QPL 345. MAXIMUM CONDUCTOR OPERATING TEMPERATURE IS 90 DEGREES CELSIUS IN WET OR DRY APPLICATIONS. PURCHASING LENGTH IS 300 FT ROLLS +/- 10%.</p> <p>Approved Brands: QPL #EL-345</p> <p>Alcan Cable BICC GENERAL CME Nexan Okonite PRYSMIAN CBL Southwire</p>
100		1328	ft	<p>CABLE, 4/0 AWG, ALUMINUM TRIPLEX, 600V, REDUCED NEUTRAL (2/0) TYPE USE-2, CODE NAME SWEETBRIAR. ON QPL EL-345. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22" PURCHASING FOOTAGE SHALL BE 300 FT +/- 10% .</p> <p>Approved Brands: QPL #EL-345</p> <p>Alcan Cable BICC GENERAL CME Nexan Okonite PRYSMIAN CBL Southwire</p>

101		1330	ft	<p>CABLE, 2-350 KCMIL AND 1-4/0 AWG, ALUMINUM TRIPLEX, 600V TYPE USE-2, CODE NAME WESLEYAN. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTABLE. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32" PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% .</p> <p>Approved Brands: QPL #EL-345</p> <p>Alcan Cable BICC GENERAL CME Nexan Okonite PRYSMIAN CBL Southwire</p>
102		1455	ft	<p>CABLE, 4/0 AWG, ALUMINIUM TRIPLEX, 600 VOLT, REDUCED NEUTRAL (2/0) TYPE USE-2, CODE NAME SWEETBRIAR, 90 DEGREE C OPERATING TEMPERATURE, REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 66" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 42".</p> <p>PURCHASING FOOTAGE SHALL BE 3000 FT +/- 10%.</p> <p>ON QUALIFIED PRODUCTS LIST EL345.</p> <p>REPLACES 00000004676 FOR 3000 FT REELS PER G NOBLE DCS 5/4/98.</p> <p>Approved Brands: QPL #EL-345</p> <p>Alcan Cable BICC GENERAL CME NEXANS Okonite PRYSMIAN CBL Southwire</p>
103		4675	ft	<p>CABLE,TRIPLEXED,ALUMINUM,XLP,600V,2/C 1/0 WITH #2 NEUTRAL,BRENAU,LINKED POLYETHYLENE INSULATED URD TYPE USE-2, MAXIMUM CONDUCTOR OPERATING TEMPERATURE IS 90 DEGREES CELSIUS IN WET OR DRY APPLICATIONS ON QUALIFIED PRODUCTS LIST EL-345. REEL SHALL BE NON-RETURNABLE WOOD. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 500 FT +/- 10% .</p> <p>Approved Brands: QPL #EL-345</p> <p>Alcan Cable BICC GENERAL CANADA WIRE CME NEXANS OKONITE PRYSMIAN CBL Southwire</p>
104-105		unused		

106		6817	ea	CLAMP, DEAD-END, ALUMINUM BODY COMPLETE WITH KEEPER AND FOUR GALVANIZED U-BOLTS, FOR 336 (26/7) MCM ACSR, 23,000 LBS. ULTIMATE BODY STRENGTH. ON QUALIFIED PRODUCTS LIST EL447. Approved Brands: QPL #EL447 HPS (SD-86-N) MOSDORFER (KMF050086) MPS (MPS)
107		6816	ea	CLAMP, DEAD-END, SIDE LOADING, BOLTED WITH CAPTIVE NUT 1/2" U-BOLTS. ALL STEEL PARTS SHALL BE GALVANIZED. MINIMUM ULTIMATE BODY STRENGTH SHALL BE 8,000 LBS., MINIMUM ULTIMATE SAG EYE STRENGTH OF 5,000 LBS. CLAMPS SIZE SHALL ACCOMMODATE 1/0-336.4 ACSR. On Qualified Products List EL446 Change from STK to JIT at ESDSOUTH per Joe Kuykendall 15MAY14 DKokas Change from SRK to JIT at ESDNORTH per Tracy Breeding 5/28/14 NJONES Change from JIT to STK at ESDSOUTH per Joe Kuykendall 04NOV14 DKokas Approved Brands: QPL #EL446 HPS (ASOD6841N) MPS (ASO-684-1)
108		22947	ea	ALUMINUM SIDE OPENING DEADEND CLAMP, SINGLE U-BOLT (.5 in) #4 (6/1) - 556.5 KCMIL (18/1) ACSR RANGE, (.25 in - .888 in). #2 (7 STR.) - 556.5 (37 STR) ALUMINUM RANGE ULT. STR. (LBS) BODY: 8000 LBS SAG EYE: 6000 LBS Approved Brands: HPS (ASOD-858-1N)
109		6849	ea	CLAMP, HOT TAP, ALL PURPOSE SPRING TYPE, UNPLATED, SIZE #8 SOLID TO 2/0 STRANDED MAIN TO #8 SOLID TO 2/0 STRANDED TAP. On Qualified Products List EL272 Approved Brands: QPL #EL-272 UPI (UHC520CC) T & B (HLC2108) MPS (C1520) HPS (BC 2/0)
110		17302	ea	CLAMP, GROUND, VISE TYPE, FOR 5/8 GROUND ROD, CAST BRONZE WITH SQUARE OR HEX HEAD SCREW. ON QPL EL-191 THIS WILL REPLACE CSN 0000006797 AFTER STOCK HAS DEPLETED. Approved Brands: QPL #EL-191 HPS (GC268) SENIOR FLEXONICS (SI-2142)
111-113		unused		
114		6826	ea	Clamp, line stirrup, bronze body with copper loop, for #6 through 400 MCM copper conductor, 1-1/2 in clamping length Approved Brands: QPL #EL-1148 Hastings (202CC)
115		6823	ea	CLAMP, LINE STIRRUP, ALUMINUM BODY WITH COPPER LOOP FOR 1/0, 6/1 ACSR, 3" MINIMUM CLAMPING LENGTH. On Qualified Products List EL460 Approved Brands: QPL #EL-460 HPS (AHLS-022019E) MPS (HLS-2/0-E)
116		unused		

117		6825	ea	CLAMP, LINE STIRRUP, ALUMINUM BODY WITH COPPER LOOP, FOR 795 MCM ALL ALUMINUM, 4 IN MINIMUM CLAMPING LENGTH. On Qualified Products List EL246 Approved Brands: QPL #EL-246 MPS (HLS-795-LDE) RICHARDS (ASC-1000) HPS (AHLS-954022-E)
118		879	ea	CLAMP, PARALLEL GROOVE, ONE BOLT, BODY - ALUMINUM, HARDWARE - HOT DIP GALVANIZED STEEL. FITS WIRE SIZES: MAIN (#2 STR. - 4/0 ACSR), TAP (#6 SOL. - 1/0 ACSR). ON QUALIFIED PRODUCTS LIST EL-456 Approved Brands: QPL #EL-456 Dossert (AC-103) HPS (LC52C)
119		6827	ea	CLAMP, PARALLEL GROOVE, ALUMINUM BODY WITH ONE HEX HEAD BOLT, FOR 1/0 RUN TO #6 ACSR TAP. On Qualified Products List EL456 Approved Brands: QPL #EL-456 HPS (LC51C) Dossert (AC-101) Burndy (UCG25R) CMC (APC-1/0-I) ESP (PG-51-C)
120		6828	ea	CLAMP, PARALLEL GROOVE, ALUMINUM BODY, FOR THE 4/0 (6/1) TO 1/0 (6/1) ACSR MAIN TO 4/0 (6/1) ACSR TAP, STEEL HARDWARE, 2 BOLTS. On Qualified Products List EL454 Approved Brands: QPL #EL-454 Anderson Electric (LC 66A) CMC (APC-4/0-2I) ESP (MBA-400) HPS (LC 66A)
121		1216	ea	CLAMP, Two Bolt (1 longer), Run #2 to 2/0, Tap #6 to 2/0, copper alloy, Tin-plated with Spacer for CU. or Al. Approved Brands: QPL EL-687 Burndy (KVSU26) T & B (2B20W) Penn-Union (VTA-1) HOMAC (TBC2/OSGP)
122		6700	ea	CLAMP, wedge, for #4 (6/1) ACSR Approved Brands: QPL #EL-651 Blackburn (W62-1) Reliable/Bethea (7195)
123		6701	ea	CLAMP, wedge, for 1/0(6/1) ACSR Approved Brands: QPL #EL-652 T&B (W20-1) MPS (7187) ALLIED BOLT (10077NI)
124-127		unused		
128		6702	ea	CLAMP, WEDGE TYPE, FOR SERVICE DROPS, COMPLETE WITH HEAVY GAUGE STAINLESS STEEL BAIL, FOR 4/0 (6/1) ACSR. On Qualified Products List EL908 Approved Brands: QPL #EL-908 ALLIED BOLT (10078) MPS (7197) T & B (W40-1)

129		1335	ea	CLEVIS, Thimble, 36,000 Lb. Minimum Ultimate Strength, Thimble Diameter 2-1/2", 3/4" Diameter Pin Hardware, Hot Dip Galvanized Approved Brands: QPL EL-1500 Joslyn (PA271) Maclean (CT-88)
130		6631	ea	CLEVIS, THIMBLE, HOT DIPPED GALVANIZED, PRESSED STEEL, WITH 5/8" COTTER BOLT #9 GUAGE METAL. On Qualified Products List EL234 Approved Brands: QPL #EL-234 MPS (J555) HPS (PSC2070147)
131-160		unused		
161		5511	ea	CONE, STRESS RELIEF, PRECAST, FOR #2 COPPER & 1/0 ALUMINUM, 220 MIL POLYETHYLENE INSULATION, URD, 15 KV, CABLE ON QUALIFIED PRODUCTS LIST EL886. Approved Brands: QPL #EL-886 T & B (35MSC-GA)
162		6835	ea	CONNECTOR, 2 BOLT (1 LONGER), COPPER ALLOY TIN PLATED BODY WITH CONTOURED SPACER FREE TO SWING OVER CONDUCTOR, FOR COPPER TO COPPER OR COPPER TO ALUMINUM. On Qualified Products List EL687 Approved Brands: QPL #EL-687 Burndy (KVSU-44) HPS (KR7TP) Penn Union (VTA-6L-A2) T & B (2B-1000-PW)
163		6833	ea	CONNECTOR, 2 bolt, 350 MCM, copper to aluminum Approved Brands: QPL #EL-687 Anderson (KR4TP) Blackburn (2B-350-PW) Blackburn (2B-500-PW) Burndy (KVSU-31) Penn Union (VTA-3L-A2)
164		6834	ea	CONNECTOR, 2 bolt, 500 MCM, copper to aluminum Approved Brands: QPL #EL-687 Blackburn (2B-500-PW) Burndy (KVSU-34) Penn Union (VTA-4L-A2)
165		5669	ea	CONNECTOR, ALUMINUM, VISE TYPE, 1-BOLT, 795 AA TO 336 ACSR, EACH CONNECTOR SHALL BE PREFILLED WITH CORROSION INHIBITOR, ON QUALIFIED PRODUCTS LIST # EL-1346 Approved Brands: QPL #EL-1346 HPS (GA-9954GL)
166		5670	ea	CONNECTOR, aluminum, vise type, 2-bolt extended range, 795 AA to 795 AA, each connector shall be prefilled with corrosion inhibitor. Approved Brands: QPL #EL-1346 HPS (GA-9820GL)
167		19255	ea	CONNECTOR 8 CONDUCTOR, 750 KCMIL TO #2, RATED FOR 600 VOLTS, INSULATED, AL/CU UG, SINGLE SET SCREW PER CONDUCTOR, INCLUDES SILICON GREASE AND INHIBITOR, ALL PORTS INCLUDE WATER TIGHT ROCKETS OR SCREW PLUGS, MEETS ANSI C119.4, ON QPL EL-14238 Approved Brands: QPL #EL14238 CMC (SSBC 750 8I) UTILCO (PED8-750SSP)

168		16504	ea	CONNECTOR, Bus 6 Outlet to Fit #2 AWG to 500 MCM. Approved Brands: QPL #EL-14238 Blackburn (UHB65C-1SL) CMC/ESP (BRD6-500SL-TS-XB) Homac (SHC500-6)
169		15521	ea	CONNECTOR, BARTAP, FOR COPPER CABLE TO FLAT # 6 TO 250 MCM. Approved Brands: QPL#: ANDERSON PRO (TLS-42) BURNDY (QGFL-29B1) HPS (TLS-42) PAUWELS (LSN-025N) PENN UNION (LSN-025N)
170		15481	ea	CONNECTOR BARTAP FOR CU CABLE TO CU FLAT SIZE 1/0 TO 500 MCM Approved Brands: QPL#: ANDERSON PRO (TLS-62) BURNDY (QGFL34B1) HPS (TLS-62) PAUWELS (LSN-050N) PENN UNION (LSN-050N)
171		5605	ea	CONNECTOR, compression, tap comp H-Type 4/0 ACSR to #6. Connector to be prefilled with inhibitor Approved Brands: QPL #EL-244 T & B (WR-379) Homac (DB-404) Penn-Union (KD-R03) UTILCO (HT-3) UTILCO (HT-5) Burndy (YHD-250)
172		5533	ea	CONNECTOR, compression, Crimpit, #4 Alum to #12 Copper Approved Brands: QPL #EL-943 Burndy (YPC-2A8U)
173		5534	ea	CONNECTOR, compression, Crimpit, #4 Alum to #4 Alum Approved Brands: QPL #EL-965 Burndy (YC-2A2)
174		5603	ea	CONNECTOR, COMPRESSION, TAP COMP H-TYPE 1/0 TO #6. CONNECTOR TO BE PREFILLED WITH INHIBITOR. ON QUALIFIED PRODUCTS LIST EL-244. Approved Brands: QPL #EL-244 T & B (WR – 189) Burndy (YHO 150) Homac (OB-101) Penn Union (KO-RO8) UTILCO (HT-8)
175		5604	ea	CONNECTOR, COMPRESSION, H-TYPE CONNECTOR TO BE PREFILLED WITH INHIBITOR. On Qualified Products List EL244 Approved Brands: QPL #EL-244 T & B (WR 279) UTILCO (HT-4) Burndy (YHD-300) Homac (DB 2020) Penn-Union (KD-R04)

176		5599	ea	CONNECTOR, COMPRESSION, H-TYPE. CONNECTOR TO BE PREFILLED WITH INHIBITOR. On Qualified Products List EL244 Approved Brands: QPL #EL-244 T & B (WR-399) Burndy (YHD-350) Homac (DB-4020) Penn-Union (KD-R05) Utilco (HT-5)
177		5601	ea	CONNECTOR, COMPRESSION, H-TYPE CONNECTOR TO BE PREFILLED WITH INHIBITOR. On Qualified Products List EL244 Approved Brands: QPL #EL-244 T & B (WR-419) Burndy (YHD-400) Homac Mfg. (DB-4040) Penn Union (KD-R28) Utilco (HT-7)
178		5515	ea	CONNECTOR, compression, self-insulated, #1/0-7 Alum. & 1/0 6/1 ACSR to 1/0 Str. Cu. Approved Brands: QPL #EL-1353 Homac (U1N1010) Kearney (58-YY)
179		5518	ea	CONNECTOR, COMPRESSION SELF-INSULATED, SERVICE #4-6/1 ACSR TO #2 STRANDED COPPER. METALLIC LINKIT SHALL BE OF HIGH CONDUCTIVITY ALUMINUM AND BE A MINIMUM OF (2) TWO INCHES IN LENGTH, O.D. 5/8 INCH AND BE PRE-FILLED WITH INHIBITOR. ENDS SHALL BE COVERED WITH COLOR CODED CAPS RED/ORANGE. ON QUALIFIED PRODUCTS LIST EL-1353 Approved Brands: QPL #EL-1353 T & B (ICS72-1) COOPER POWER (58-RO) Burndy (ES2R2W) Homac (U1N24)
180		5516	ea	CONNECTOR, compression, self-insulated, #1/0-7 Alum. & 1/0 6/1 ACSR to #2 Str. Cu. Approved Brands: QPL #EL-1353 Homac (U1N102) Kearney (58-YR)
181-183		unused		
184		5519	ea	CONNECTOR, COMPRESSION SELF-INSULATED, SERVICE, #4-6/1 ACSR TO #4 STRANDED COPPER. METALLIC LINKIT SHALL BE OF HIGH CONDUCTIVITY ALUMINUM AND BE A MINIMUM OF (2) TWO INCHES IN LENGTH, O.D. 5/8" AND BE PRE-FILLED WITH INHIBITOR. ENDS SHALL BE COVERED WITH COLOR CODED CAPS ORANGE/ORANGE. ON QUALIFIED PRODUCTS LIST EL-1353 Approved Brands: QPL #EL-1353 T & B (ICS68-1) Burndy (ES2W2W) Homac (U1N44) COOPER POWER (58-00)

185		5520	ea	<p>CONNECTOR, COMPRESSION SELF-INSULATED, SERVICE. CONNECTOR SIZE #4-6/1 ACSR TO #6 STRANDED COPPER. METALLIC LINKIT SHALL BE OF HIGH CONDUCT-TIVITY ALUMINUM AND BE A MINIMUM OF (2) TWO INCHES IN LENGTH, O.D. 5/8" AND BE PREFILLED WITH INHIBITOR. ENDS SHALL BE CONVER WITH COLOR CODED CAPS ORANGE/BLUE.</p> <p>ON QUALIFIED PRODUCTS LIST EL-1353</p> <p>Approved Brands: QPL #EL-1353</p> <p>T & B (ICS67-1)</p> <p>Burndy (ES2W4W)</p> <p>Homac (U1N46)</p> <p>COOPER POWER (58-OBL)</p>
186		5517	ea	<p>CONNECTOR, compression, self-insulated, #4-7 Alum. # 4-6/1, ACSR to 1/0 Cu.</p> <p>Approved Brands: QPL #EL-1353</p> <p>Homac (U1N104)</p> <p>Kearney (58-YO)</p>
187		5513	ea	<p>CONNECTOR, COMPRESSION, SERVICE FOR 1/0 ACSR TO 3/0 STRANDED COPPER OR ACSR, LENGTH 4", PREFILLED WITH INHIBITOR, CAPPED AND MARKED. SUITABLE FOR INSTALLATION WITH BURNDY MD-6 TOOL WITH WK-840 DIE.</p> <p>On Qualified Products List EL862</p> <p>Approved Brands: QPL #EL-862</p> <p>Homac (XIU3010)</p> <p>Penn Union (PS-300)</p> <p>ALCOACONDUCT (1409)</p>
188		5512	ea	<p>CONNECTOR, COMPRESSION, SERVICE FOR 1/0 ACSR TO 2/0 STRANDED COPPER OR ACSR LENGTH 4" PREFILLED WITH INHIBITOR CAPPED AND MARKED. SUITABLE FOR INSTALLATION WITH BURNDY MD-6 TOOL WITH WK-840 DIE.</p> <p>On Qualified Products List EL861</p> <p>Approved Brands: QPL #EL-861</p> <p>HOMAC (XIU2010)</p> <p>PENN UNION (PS-200)</p> <p>ALCOA (1405)</p>
189		5514	ea	<p>CONNECTOR, COMPRESSION, SERVICE FOR 1/0 ACSR TO 4/0 STRANDED COPPER OR ALUMINUM, LENGTH 4", PREFILLED WITH INHIBITOR, CAPPED AND MARKED. SUITABLE FOR INSTALLATION WITH BURNDY MD-6 TOOL WITH WK-840 DIE.</p> <p>On Qualified Products List EL863</p> <p>Approved Brands: QPL #EL-863</p> <p>HOMAC (XIU4010)</p> <p>BURNDY (YSD28R25R)</p> <p>PENN UNION (PS-400)</p> <p>ALCOACONDUCT (1414)</p>
190		unused		
191		5523	ea	<p>CONNECTOR, COMPRESSION FOR 4/0, 7 STRAND ALUMINUM TO 4/0 STRANDED COPPER, LENGTH 4", 15/16" OD, FILLED WITH INHIBITOR AND ENDS COVERED WITH COLOR CODED CAPS.</p> <p>On Qualified Products List EL907</p> <p>Approved Brands: QPL #EL-907</p> <p>HOMAC (XIU4040)</p> <p>PENN UNION (PS-4040)</p>

192		5529	ea	CONNECTOR, COMPRESSOR SERVICE, 4-1/4 INCHES LONG, LOOP HYSPLICE FOR 1/0 (6/1) ACSR BARE NEUTRAL MESSENGER SPLICE TO BE FILLED WITH INHIBITOR AND THE ENDS COVERED WITH COLOR CODED CAPS. On Qualified Products List EL696 Approved Brands: QPL #EL-696 T & B (TR66) Homac (SNG00)
193-199		unused		
200		1410	ea	CONNECTOR, INSULATION PIERCING, MAIN 1/0 - #8, TAP #2 - #10, 600V RATING, INSULATED TIGHTENING BOLT WITH SHEAR HEAD, SHALL WITHSTAND 6000 VOLTS UNDER 1 FOOT OF WATER FOR 1 MINUTE WITH NO FLASHOVER. TEETH OF CONNECTOR SHALL BE ENCASED IN GREASE FILLED RUBBER GROMMET. CONNECTOR SHALL HAVE A CURRENT RATING OF 190 AMPS FOR COPPER CONDUCTOR AND 150 AMPS FOR AN ALUM. CONDUCTOR. SHALL MEET ANSI C119.4 REQUIREMENTS. Approved Brands: Sicame Corp (TTD1010XFBTUNI) HOMAC (IPST 102)
201		1412	ea	CONNECTOR, INSULATION PIERCING, MAIN 1/0 - #8, TAP #2 - #10, 600V RATING, INSULATED TIGHTENING BOLT WITH SHEAR HEAD, SHALL WITHSTAND 6000 VOLTS UNDER 1 FOOT OF WATER FOR 1 MINUTE WITH NO FLASHOVER. TEETH OF CONNECTOR SHALL BE ENCASED IN GREASE FILLED RUBBER GROMMET. CONNECTOR SHALL HAVE A CURRENT RATING OF 190 AMPS FOR COPPER CONDUCTOR AND 150 AMPS FOR AN ALUM. CONDUCTOR. SHALL MEET ANSI C119.4 REQUIREMENTS. Approved Brands: Sicame (TTD2710FBT-UNI) HOMAC (IPST 102)
202-204		unused		
205		4715	ea	CONNECTOR, mole, bronze, tinned, URD 6 tap, #2 to 250 MCM Approved Brands: QPL #EL-887 ELASTIMOLD (PML- 17/7 NO COVER) Mac Products (BML-6-250 W/O COVER)
206-211		unused		
212		6838	ea	CONNECTOR, parallel, 2 bolt, for 2/0 Str copper Approved Brands: QPL #EL-25 Anderson Electric (KR-2) Blackburn (2B20W) Burndy (KVSW26) Penn Union (VTW-1L)
213		6840	ea	CONNECTOR, parallel, 2 bolt, for 350 MCM stranded copper Approved Brands: QPL #EL-29 Anderson Electric (KR-4) Blackburn (2B-350W) Burndy (KVSW31) Penn Union (VTW-3L)
214		6839	ea	CONNECTOR, parallel, 2 bolt, for 4/0 Str copper Approved Brands: QPL #EL-26 Anderson Electric (KR-3) Blackburn (2B40W) Burndy (KVSW28) Penn Union (VTW-2L)

215		6841	ea	CONNECTOR, parallel, 2 bolt, for 500 MCM stranded copper Approved Brands: QPL #EL-30 Blackburn (2B-500W) Burndy (KVS34) Kearney (16372-1) Penn Union (VTW-4L) HUBBELL/ANDERSON (KR-5)
216		6842	ea	CONNECTOR, parallel, 2 bolt, for 750 MCM stranded copper Approved Brands: QPL #EL-27 Anderson Electric (KR-6) Blackburn (2B-800W) Burndy (KVS40) Penn Union (VTW-5L)
217-218		unused		
219		1464	ea	CONNECTOR, reducer, 1/0 aluminum to #2 copper, outside diameter shall be exactly .64 in. and the length shall be exactly 2 in. long. Approved Brands: 3M (CI-T-4)
220		6804	ea	CONNECTOR, SPLIT BOLT, FOR #2 STRANDED COPPER. ON QUALIFIED PRODUCTS LIST EL-201 Approved Brands: QPL #EL-201 Burndy (KS23) COOPER POWER (66-2) Dossert (DS-6) HPS (SBN2) Penn Union (S-2) T&B (1-H)
221		6805	ea	CONNECTOR, SPLIT BOLT, FOR #4, SOLID COPPER. CONNECTOR, SPLIT BOLT, FOR THREE CONDUCTORS OF RATED SIZES. NUTS TO BE HEXAGON SHAPED. THE NUT SHALL BE FREE RUNNING, BUT NOT LOOSE. CONNECTOR SHALL MEET OR EXCEED NEMA STD. SG-14-LATEST EDITION. ON QUALIFIED PRODUCTS LIST EL-22 Approved Brands: QPL #EL-22 Burndy (KS 20-3) Penn Union (SEL-4) HPS (SBN4L) T & B (4H-3)
222-225		unused		
226		6806	ea	CONNECTOR, SPLIT BOLT, FOR #6 SOLID COPPER. CONNECTOR, SPLIT BOLT, STANDARD LENGTH REQUIRED TO CONNECT TWO CONDUCTORS OF RATED SIZES. NUT TO BE HEXAGON SHAPED. THE NUT SHALL BE FREE RUNNING, BUT NOT LOOSE. CONNECTOR SHALL MEET OR EXCEED NEMA STD. SG-14-LATEST EDITION. ON QUALIFIED PRODUCTS LIST EL-21 Approved Brands: QPL #EL-21 Burndy (KS17) Dossert (DS-2) HPS (SBN6) Penn Union (S-6) T&B (6H)
227		6807	ea	CONNECTOR, Split Bolt, for #8 solid copper Approved Brands: QPL #EL-20 Hubbell (SBN8) Blackburn (8H) Burndy (KS15) Dossert (DS1) Penn Union (S-8) MacLean (8F)

228		1246	ea	CONNECTOR, Split Bolt, RUN #1Str.-3/0 AWG, TAP #8 Str.-3/0 AWG, Tin-Plated, With Spacer Approved Brands: QPL #EL-20 T & B (40HPS) Burndy (KSU27) Dossert (DSNS25C) Utilco (SK-3/0)
229-230		unused		
231		1247	ea	CONNECTOR, TRANSFORMER SECONDARY, DISCONNECTABLE, 1" STUD, WITH 6 OUTLETS, CABLE RANGE #6 TO 500 MCM, WITH INHIBITOR, WITH STREETLIGHT OPTION FOR #12-#4 WIRE AND SEE THOUGH INSULATED COVER. Approved Brands: QPL #EL-1482 ABB (CSW6500SLC) CMC (RLSS500-6I-SLI) POLARIS (PSMTLSC500-6SLP) T & B (TSB6559SD10RC) UTILCO (PTF6-500CJNUSLP)
232		unused		
233		1241	ea	CONNECTOR, Transformer, Tank Grounding, #6 Solid To 1/0 Stranded, Bronze, Shall accommodate unbroken ground wires Approved Brands: QPL #EL-1479 HPS (GC-207) MPS (GD-BVC-207) CMC (BGC-0) RICHARDS MFG (RTG512-M)
234		18284	ea	CONNECTOR, 4 CONDUCTOR, 350MCM TO #12, RATED FOR 600 VOLTS, INSULATED, DIRECT BURIAL/SUBMERSIBLE, DUAL RATED TO ACCEPT ALUMINUM AND COPPER CONDUCTORS, SINGLE SET SCREW PER CONDUCTOR, INCLUDES SILICON GREASE AND INHIBITOR, ALL PORTS INCLUDE WATER TIGHT ROCKETS OR SCREW PLUGS, MEETS ANSI C119.4, ON QPL EL-14238. REPLACES STK# 16503 WITH 4 CONDUCTOR CONNECTORS FOR USE IN BOTH METER PEDESTALS AND 18 IN PULL BOXES. Approved Brands: QPL #EL-14238 POLARIS (IPLWB350-4P) UTILCO (PED4-350SSP) T & B (RAB4C) CMC (SSBC35004SI)
235		18285	ea	CONNECTOR 6 CONDUCTOR, 350MCM TO #12, RATED FOR 600 VOLTS, INSULATED, DIRECT BURIAL/SUBMERSIBLE, DUAL RATED TO ACCEPT ALUMINUM AND COPPER CONDUCTORS, SINGLE SET SCREW PER CONDUCTOR, INCLUDES SILICON GREASE AND INHIBITOR, ALL PORTS INCLUDE WATER TIGHT ROCKETS OR SCREW PLUGS, MEETS ANSI C119.4, ON QPL EL-14238. REPLACES STK # 16503 WITH 6 CONDUCTOR CONNECTOR FOR USE IN BOTH METER PEDESTALS AND 18" PULL BOXES PER MIKE GAUB AND STANDARDS COMMITTEE 12/15/05. Approved Brands: QPL #EL-14238 UTILCO (PED6-350SSP) T & B (RAB6C) CMC (SSBC350-6SI)
236-245		unused		

246		7414	ea	COVER, INSULATING, FOR 6 TAP URD CABLE, 2-250 MCM CONNECTOR. ELASTIMOLD P/N CAP# 7 COVER FOR PML-17 MAC PRODUCTS P/N CAP#7 COVER FOR BML-6-250 IN QPL EL-887. Approved Brands: QPL #EL-887 MAC PRODUCTS (CAP #7 COVER FOR BML-6-250) HOMAC (FB-33)
247		22997	ea	SWITCH FOR CAPACITOR PRE ASSEMBLED SOLID DIELECTGRIC SOLENOID DRIVEN OPERATOR Approved Brands: ABB (PS15)
248		7413	ea	COVER, for compression sleeve, 4" 15/16" OD Approved Brands: QPL #EL-888 Anderson Electric (SEC-6)
249-257		unused		
258		1724	kt	KIT, ELBOW, DEADBREAK, 600AMP/15KV 1/0 AWG COMPACT COPPER CABLE WITH TEST POINT, INSULATING PLUG, CAP, STUD, LUG, AND CABLE ADAPTER.(FOR USE IN NETWORK ONLY) Approved Brands: QPL #EL-1515 COOPER POWER (BT625C62C1T) T & B (656ETP-G0230-DRG)
259		6679	ea	DEAD END, Formed Wire, 1/0 ACSR, Color Code Yellow, Holding Strength 3,552 lbs. Approved Brands: QPL #EL-468 Helical Line Products (HD-522) PREFORMED (DG-4544) MOSDORFER (KMF050086) A.B. CHANCE (50AWCG) DULMISON (AWDG0990)
260		6691	ea	DEAD END, Formed Wire, #2A Copperweld, Color Code Blue, Holding Strength 14,000 lbs. Approved Brands: QPL #EL-546 Helical Line Products (HG-418) Preform Line Products (DE-3514) MOSDORFER (CWGG0360) DULMISON (CWGG0915)
261		6819	ea	DEAD END, automatic, with galvanized clevis strap and pin for solid #6A copperweld conductors. Approved Brands: QPL #EL-1363 Reliable/Bethea (47LD) HUBBELL/Fargo (GD-513)
262		24227	ea	CLAMP DEAD END MULTI-RANGE Approved Brands: QPL #EL-1363 HPS (HPS BSOD5701N)
263		6690	ea	DEADEND, FORMED WIRE, #6A COPPERWELD, DIAMETER RANGE IN INCHES FROM 0.226 TO 0.236, HOLDING STRENGTH 5000 LBS, COLOR CODE MAY VARY. ON QPL EL-547 Approved Brands: QPL #EL-547 Helical Line Products (HG-409) Preform Line Products (CDE 3101) DULMISON (CWDG0560) MOSDORFER (CWGG0220)

264		19428	ea	DEAD-END SERVICE GRIP PREFORM FOR 1/0 (6/1) ACSR CONDUCTOR WITH HOLDING STRENGTH OF 2,140 LBS. COLOR CODE YELLOW. Approved Brands: QPL #EL-1580 HUBBELL (SGFW4506) HELICAL LINE (HSG522) PREFORMED LINED PRODUCTS (SG-4506)
265		19429	ea	DEAD-END SERVICE GRIP PREFORM FOR 4/0 (6/1) ACSR CONDUCTOR WITH HOLDING STRENGTH OF 4,210 LBS. COLOR CODE RED. Approved Brands: QPL #EL-1580 HUBBELL (SGFW4509) HELICAL LINE (HSG528) PREFORMED LINED PRODUCTS (SG-4509) MOSDORFER (SG-0580)
266		19430	ea	DEAD-END SERVICE GRIP PREFORM FOR #4 (6/1) ACSR CONDUCTOR WITH HOLDING STRENGTH OF 915 LBS. COLOR CODE ORANGE. Approved Brands: QPL #EL-1580 HUBBELL (SGFW4502) HELICAL LINE (HSG514) PREFORMED LINED PRODUCTS (SG-4502) MOSDORFER (SG-0257)
267		23021	ft	WIRE, ACSR, BARE, IN ACCORDANCE WITH ASTM SPECIFICATION, B232 (FOR CONCENTRIC LAY ACSR) AND ASTM SPECIFICATION B245 (FOR STANDARD WEIGHT), ZINC COATED STEEL CORE WIRE FOR ACSR WIRE, CODE NAME RAVEN. ON QUALIFIED PRODUCTS LIST EL669. REEL SHALL BE NON-RETURNABLE WOOD WITH 3-1/16" OR GREATER ARBOR HOLE. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". PURCHASING FOOTAGE SHALL BE 1500 FT +/- 10%. Approved Brands: QPL #EL669 CME (UNKNOWN) GENERAL CABLE (RAVEN-1515/FT)
268		4650	ea	DEAD END, Formed Wire, 7/16 Inch Guy, Galvanized Steel Strand, Color Code Green, Extra High Holding Strength 20,800 lbs. Approved Brands: QPL #EL-552 Helical Line (HG-211) HPS (FWDE1108) PREFORMED (GDE-1108) MOSDORFER (GDE0460)
269		4649	ea	DEAD END, Formed Wire, 3/8 Inch Guy, Galvanized Steel Strand, Color Code Orange, Extra High Holding Strength 15, 400 lbs. Approved Brands: QPL #EL-469 Helical Line (HG210 3/8) HPS (FWDE1107) Preformed (GDE-1107) MOSDORFER (GDE0360)
270		4648	ea	DEAD END, Formed Wire, 5/16 Inch Guy, Galvanized Steel Strand, Color Code Black, Extra High Holding Strength 11, 200 lbs. Approved Brands: QPL #EL-421 Helical Line (HG 209 5/16) HPS (FWDE1106) PREFORMED (GDE-1106)

271		1263	ea	DEAD END, Formed Wire, 1/0 AWG, Slack Span, Color Code Yellow, Maximum Load is 1,000 lbs Approved Brands: QPL EL-1484 Dulmison (SSDE-0925) Preformed (SSDE-9126) MOSDORFER
272		unused		
Fuse Links (Items 273-293)				
273		15537	ea	Fuse link fit all 1/3 amp type X Approved Brands: Kearney (41033)
274		15540	ea	Fuse link fit all 2 amp type X Approved Brands: Kearney (41200)
275		21898	ea	FUSE LINK 80AMP TYPE KS Approved Brands: COOPER POWER (21080)
276		15542	ea	Fuse link fit all 5-1/2 amp type X Approved Brands: Kearney (41550)
277		15543	ea	Fuse link fit all 10 amp type X Approved Brands: Kearney (41010)
278		15544	ea	Fuse link fit all 15 amp type X Approved Brands: Kearney (41015)
279		22438	ea	FUSE LINK NEMA STANDARD TYPE 200(N) (FITALL) 30 AMP INCLUSIVE.ON QUALIFIED PRODUCTS LIST EL-070 Approved Brands:: COOPER POWER (11030)
280		15546	ea	Fuse link fit all 25 amp cap bank KS Approved Brands: Kearney (21025)
281		15547	ea	Fuse link fit all 40 amp cap bank KS Approved Brands: Kearney (21040)
282		15548	ea	Fuse link fit all 50 amp cap bank KS Approved Brands: Kearney (21050)
283		5681	ea	Fuse link fit all 15 amp fuse, link NEMA standard type 200 (N) (fit all) 15 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11015)
284		5682	ea	Fuse link fit all 20 amp fuse, link NEMA standard type 200 (N) (fit all) 20 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11020)
285		unused	EA	
286		22725		FUSE TUBE LINKBREAK HEAVY DUTY 100 AMP, 7.2KV, 16KA FAULT CURRENT RATING. FUSE TUBE LINER SHALL BE SYNTHETIC BONE FIBER MATERIAL, OR APPROVED EQUAL. Approved Brands: HUBBELL (T720-114T084)
287		5685	ea	Fuse link fit all 40 amp fuse, link NEMA standard type 200 (N) (fit all) 40 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11040)
288		5686	ea	Fuse link fit all 50 amp fuse, link NEMA standard type 200 (N) (fit all) 50 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11050)

289		5687	ea	Fuse link fit all 65 amp fuse, link NEMA standard type 200 (N) (fit all) 65 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11065)
290		1083	ea	Fuse link fit all 80 amp fuse, link NEMA standard type 200 (N) (fit all) 80 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11080)
291		5689	ea	Fuse link fit all 100 amp fuse, link NEMA standard type 200 (N) (fit all) 100 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11100)
292		5690	ea	Fuse link fit all 150 amp fuse, link NEMA standard type 200 (N) (fit all) 150 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11150)
293		5691	ea	Fuse link fit all 200 amp fuse, link NEMA standard type 200 (fit all) 200 amp inclusive. Approved Brands: QPL #EL-70 Kearney (11200)
294		5680	ea	FUSE, Link NEMA standard type 200 (N) (Fit all), 10 amp. On Qualified Products List EL-70. Approved Brands: QPL #EL-70 Kearny (11010)
295		1092	ea	FUSE, link type 200 (N) (Fit all), 125 AMP, 15KV. Approved Brands: QPL #EL-70 Kearny (11125)
296		18020	ea	FUSE LINK, 100AMP, TYPE KS ON QPL EL-70. Approved Brands: QPL #EL-70 COOPER (21100)
297		unused		
298		18031	ea	FUSE LINK, 65 AMP, TYPE KS ON QPL EL-70. Approved Brands: COOPER POWER (21065)
299		18022	ea	FUSE LINK, 125 AMP, TYPE KS, CHANGE TO INSURANCE PER J NICHOLS KRAMER IDLE STOCK REVIEW 14 JUN 06 D KOKAS ON QPL EL-70. Approved Brands: QPL EL-70 COOPER (21125)
300		22704	EA	FUSE TUBE, HEAVY DUTY, 100 AMP, 7.2KV, 16KA FAULT CURRENT RATING, INTERCHANGEABLE WITH ALL APPROVED MANUFACTURERS CUTOUPS, ON QPL EL270 Approved Brands: QPL #EL-270 ABB (7194C60G02MP) ALUMA FORM (CFH15-100A-16KA) COOPER POWER (LDBA00A) HUBBELL (T710-114T084) MPS (89531R10 (16KA)
301		5876	ea	FUSE TUBE, heavy duty, 7.2 KV to 14.4 KV, 200 amp. Approved Brands: QPL #EL-270 S&C (89571R11) ABB (7194C60G03)
302-315		unused		

316		18206	ea	<p>PURCHASING DESCRIPTION GUARD, ANIMAL, POLYPROPYLENE, WITH HINGES, WITH SNAP LOCK CONSTRUCTION THAT WILL ALLOW INSTALLATION WITHOUT REMOVING CONDUCTOR, SHALL HAVE 2 TO 3 KNOCKOUT PROVISIONS - ONE IN THE TOP AND ONE TO TWO IN THE 45 DEGREE SIDES ON QPL EL-1530. NEW DCS ITEM REPLACES STK #0000001417.</p> <p>ISSUE FOR NEW CONSTRUCTION AND FOR REPLACEMENT PER DENNIS PATRICK - STANDARDS.</p> <p>Approved Brands: QPL #EL-1530 CNTRL MOLONY (70380486)</p>
317		6789	ea	<p>GUARD, Guy, Plastic, Round, Yellow, 8 Foot Long for 3/16 to ½ Inch Wire, Guard to Have a Pig Tail Type Fastener for Attachment to the Guy Wire.</p> <p>Approved Brands: QPL #EL-286 A.B. Chance (96 FRPM-YEL) MACLEAN/JOSLYN (J5718) Preform Line Products (PG-5718)</p>
318		920	ea	<p>FITTING, GUY, SIDEWALK, CLAMP END FITTING, GALVANIZED MALLEABLE IRON, FOR 2 INCH PIPE, WITH SET SCREW FOR CLAMPING TO PIPE, ARRANGED FOR CLAMPING 2 GUY WIRES. ON QUALIFIED PRODUCTS LIST EL-285 (To be used with item 210)</p> <p>Approved Brands: QPL #EL-285 HPS (512) MPS (SWG-20-5) MPS (SWG2-20-5)</p>
319		6784	ea	<p>FITTING, GUY, SIDEWALK, POLE PLATE FOR 2" PIPE, GALVANIZED MALLEABLE IRON, WITH SET SCREWS FOR CLAMPING PIPE, WITH ONE 11/16" HOLE IN CENTER OF 2" PIPE RECEPTACLE FOR ATTACHING TO FIBERGLASS POLE, AND ONE 11/16" AND TWO 9/16" HOLES FOR LAG BOLTS ATTACHING FITTING TO WOOD POLE. ON QPL EL-284.</p> <p>Approved Brands: QPL #EL-284 HPS (0501) MPS (SWGB-20-54)</p>
320-324		unused		
325		6530	ea	<p>GUY HOOK, INTEGRAL SPUR TYPE FOR WOOD POLES, 5/8" BOLT, MAXIMUM STRAND DIAMETER 7/16", HOT DIPPED GALVANIZED. On Qualified Products List EL782</p> <p>Approved Brands: QPL #EL-782 ACE (GH-5X) COOPER POWER (DG21A1) HPS (GH5) MPS (AG-5) ALLIED BOLT (5060)</p>
326-331		unused		
332		6541	ea	<p>INSULATOR, cable rack, 2-11/16" radius</p> <p>Approved Brands: QPL #EL-111 HPS (DE12U2) HPS (1115)</p>
333-340		unused		
341		817	ea	<p>INSULATOR, line post, 35 kV, ANSI class 57-2, "F" neck.</p> <p>Approved Brands: QPL #EL-1414 MPS (DP57-2) formerly DULHUNTY POWER ELECTRO PORC (9335X-70) NEWELL PROCE (37620) POWER LINE (P572G) SEVES (PL-11253) VICTOR (62055)</p>

342		17301	ea	INSULATOR, spool type, polymer, 3 inch length, 30-1/8 inch diameter, 11/16 inch grove radius, 11/16 inch hole diameter. In accordance with EEI Class 53-2. Must meet ANSI C29.3-1986 sec 8.2.1, ANSI C29.1-1982 sec 4.2 & 4.3, ANSI C29.1 sec 5.1.6.-1988, and ANSI C29.3 sec 8.3.3-1986. Approved Brands: QPL#EL-106 Hendrix WIRE (HPI-53-2) HPS (C909-1032P)
343-344		unused		
345		unused		
346		503	ea	INSULATOR, Wireholder service, Pipe Size 1 1/4" 2 1/2" reinforced gray porcelain insulator with full metal base or nylon composite, with 7/8 inch hole, rigid assembly. Approved Brands: QPL#EL-1398 COOPER POWER (DW2C5) HPS (C2070144) MPS (JO588Z)
347		7418	ea	INSULATOR, wireholder, #22 x 3" woodscrew Approved Brands: QPL #EL-46 A.B. Chance (C207-0139) Joslyn (J0893Z)
348-351		unused		
352		7417	ea	INSULATOR, wireholder, #22 x 2-1/4" Woodscrew Approved Brands: QPL #EL-45 A.B. Chance (C207-0138) Joslyn (J089Z)
353		504	ea	INSULATOR, Wireholder, Service Mast, pipe size 3" to 4" reinforced, gray porcelain, insulator with full metal base or nylon composite, with 7/8" hole, rigid assembly. Approved Brands: QPL#EL1398 A.B. Chance (C207-0076)
354		1405	ea	JUMPER, Copper, Braid, Tinned, with 2 NEMA holes on Each End, Capable of Carrying a minimum of 495 Amps Outdoor. Approved Brands: QPL EL-1526 HPS (FB-400-18) Burndy (BG18N)
355		18835	ea	KIT ELBOW DEADBREAK, 900A, 15KV, 1000 MCM COMPACT COPPER CABLE, WITH TEST POINT, TAP PLUG (900 TO 200 AMP REDUCER), 200 AMP INSULATED CAP, STUD, LUG, AND 900 AMP CABLE ADAPTER. ON QPL EL-14256. Approved Brands: RICHARDS MFG (91ETPT3M26-202) T & B (676ETPSP-N2400-DRG)
356		unused		
357		1363	ea	LUG Compression NEMA Two-Hole #2 Aluminum & copper QPL#EL-1504 Approved Brands: QPL EL-1504 Burndy (YA2CA9)
358		unused		
359		1366	ea	LUG Compression NEMA Two-Hole 350 MCM Aluminum & copper Approved Brands: QPL EL-1504 HPS (VACL-350-12BN) T & B (ATL3502) Burndy (YA31A3) Homac (AL350NTN) RICHARDS MFG (CL15-2N)
360		unused		

361		1364	ea	LUG, Compression NEMA Two-Hole 3/0 Aluminum & copper Approved Brands: QPL EL-1504 HPS (VACL-3/0-12BN) T & B (ATL302) Burndy (YA27A5) Homac (AL3/0NTN) RICHARDS MFG (CL11-2N)
362-365		unused		
366		1368	ea	LUG, Compression NEMA Two-Hole 500 MCM Aluminum & copper Approved Brands: QPL EL-1504 HPS (VACL-500-12BN) Burndy (YA34A3) Homac (AL500NTN) RICHARDS MFG (CL18-2N)
367		1360	ea	LUG, Compression NEMA Two-Hole 600 MCM Aluminum Approved Brands: QPL EL-1504 Homac (AL600NTN) RICHARDS (CL23-2N)
368		1646	ea	LUG, Compression, 1/0, Two-Hole, Rated for Aluminum, Copper & ACSR, Tongue Width to be no Wider Than 1-3/4 in. Approved Brands: QPL EL-1545 HPS (VAUL-1/0-12BN) Burndy (YAS25R-2N) Homac (AL1/0-N) PENN UNION (FKLA-010-D)
369		1647	ea	LUG, Compression, 4/0, Two-Hole, Rated for Aluminum, Copper & ACSR, Tongue Width to be no Wider Than 1-3/4 in. Approved Brands: QPL EL-1545 Burndy (YAS28R-2N) Homac (SA-4/0-N) Penn-Union (FSLA-025-D) HPS (VAUL-4/0-12BN0)
370		1271	ea	LUG, One-hole, Compression, Copper, 2/0 AWG, 1/2" Bolt Holes, Long Barrel, Color Coded Black. Approved Brands: QPL EL-1520 HPS (VHCL-2/0-12) Burndy (YA26-N) RICHARDS (CL10)
371-394		unused		
395		6624	ea	KIT sealing cable end #2 to 500 MCM JCN Primary cable, accommodating a cable range of .94" to 1.47" overall diameter, heat shrink. ON QPL EL-1595. Approved Brands: Burndy (HSIC200FR) Raychem (ESC-4/A) 3M (SKE 25/63)
396		1275	ea	KIT TERMINAL MOLE TAP, 350KCMIL, aluminum or copper, 600V, Force Fit. Approved Brands: QPL EL-352 Burndy (RYA31ACR) ESP (AL-350-TS) Homac (CFB-350-CS) HOMAC (CFK-350-CS) Penn-Union (DBTBF-035)
397		7120	ea	MOULDING, ground wire, 1" x 1/2" x 7/8" x 8' Approved Brands: QPL #EL-310 BROOKS (TYPE 100) Hughes Brothers (2501.8)
398		unused		

399		18258	ea	BRACKET, cutout/arrester, 3 phase-double position, fiberglass arms, 0-degree standoff, 9/16" square holes at arm tips, 13" spacing for center phase and 48" spacing between outside phases. Top mounting hole must be A 11/16" keyhole, bottom mounting hole will be A 11/16" slot. Bracket will come with provisions and hardware to mount 6 PCS of equipment. Approved Brands: QPL EL-14255 Maclean (G3MA024813DDB) Hubbell (3SBM4813CTB)
400		8471	ea	NUT, EYE, DROP FORGED STEEL, EEI STANDARD, FOR 3/4" BOLTS. STRENGTH RATING 20,000 LBS MINIMUM Approved Brands: QPL #EL-315 MPS (J1093) HPS (6503) ALLIED BOLT (5877) ATLAS (APP-1568-EN) COOPER POWER (DG2E4) MPS (D6503) MPS (EN6) PREFORMED (EN-6) UTILITIES SRV (451)
401		8470	ea	NUT, eye, for 5/8" bolt Approved Brands: QPL #EL-315 MPS (J1092) HPS (6502) ALLIED BOLT (5876) ATLAS (APP-1567-EN) COOPER POWER (DG2E3) MPS (D6502) MPS (EN5) PREFORMED (EN-5) UTILITIES SRV (450)
402-405		unused		
406		6613	ea	PLATE, POLE EYE, DUCTILE IRON, HOT DIPPED GALVANIZED, FOR WOOD POLES, 21,000 LBS. ULTIMATE STRENGTH. On Qualified Products List EL1083 Approved Brands: QPL EL#-1083 HPS (GEP6) HUGHES BROS (1258) MPS (PEP-66-45) MPS (PX88) COOPER POWER (DG30P4)
407-411		unused		
PVC Conduit Items (412-423)				
412		unused		
413		unused		
414		unused		
415		unused		
416		unused		
417		unused		
418		unused		
419		unused		
420		unused		
421		unused		
422		unused		
423		unused		
424		unused		
425-426		unused		

427		6632	ea	RACK, pulley type, 1 pt. Approved Brands: QPL #EL-108 A.B. Chance (C207-0072) MACLEAN/JOSLYN (J-252)
428-436		unused		
437		6527	ea	Rod, anchor, triple eye, threaded, 1" x 10'. Rod shall be hot dipped galvanized and thoroughly coated with mastic asphalt. Rod shall be protected by a plastic pipe, which is resistant to cuts and abrasions. Heat shrink tubing shall be used just below the triple eye to form a moisture barrier between the plastic pipe and the anchor rod. Metal portions of the rod shall be completely isolated from surrounding environment. Approved Brands: QPL #EL-771 A.B. Chance #C200-0064 CWA Anchor #R1110TS
438		6523	ea	ROD, ANCHOR, TRIPLE EYE, HOT DIPPED GALVANIZED, ROLLED THREAD, MADE TO EEI SPECIFICATIONS TD-2, 3/4" X 9. On Qualified Products List EL654 Approved Brands: QPL #EL-518 HPS (7559) MPS (J7329)
439		7469	ea	ROD, ground, 5/8" x 8', copper weld Approved Brands: QPL #EL-230 A.B.Chance (C615880) Eritech (615880) Galvan (6258) Nehring (NCC-588)
440		unused		
441		6509	ea	SHACKLE, ANCHOR OR DROP FORGED CLEVIS, GALVANIZED, 25,000 LBS. ULTIMATE STRENGTH. THIS SHACKLE CAN BE USED FOR THE 20,000 LB. AND 25,000 LB. APPLICATIONS. ON QUALIFIED PRODUCTS LIST EL-227 Approved Brands: QPL #EL-227 HPS (AS 25) MPS (ASH-45)
442		5530	ea	SLEEVE, SEMI-TENSION, COMPRESSION TYPE, FOR TRIPLEX SERVICE CABLE, #4 (6/1) ACSR BARE NEUTRAL MESSENGER (TRIPLEX SERVICE DROP CABLE). 4/16" MINIMUM LENGTH, 5/8" O.D.. PREFILLED WITH INHIBITOR, ENDS COVERED WITH COLOR CODED CAPS. On Qualified Products List EL476 Approved Brands: QPL #EL-476 Burndy (YSS4R) Homac (SNG44) Penn Union (PNK-22)
443		7415	ea	SLEEVE, force fit, for use on 150 amp and 200 amp fuse URD taps Approved Brands: QPL #EL-281 Homac (CSN-2277)
444-454		unused		
455		7287	ea	SPLICE KIT, COLD SHRINK, FOR 35KV, 350 EPR TO 350 EPR, ON QPL EL-14237 NOTE: 500 MCM APPLICATIONS REQUIRE A DIFFERENT CONNECTOR DO NOT PURCHASE PRYSMIAN/PIRELLI DUE TO QUALITY ISSUES PER STANDARDS DEPARTMENT 6/5/13 DP Approved Brands: Specification E-1074 3M (5468A-350-CU)
456-458		unused		

459		5502	ea	SPLICE, FULL TENSION AUTOMATIC; 1/0 ACSR 6/1, PRELOADED WITH INHIBITOR. On Qualified Products List EL393 Approved Brands: QPL #EL-393 HPS (GL406A) MPS (7653) T&B (ATS-1020)
460		5504	ea	SPLICE, auto full tension 795 AAC 37 strand arbutus Approved Brands: QPL #EL-393 MPS (7660-CRS)
461-463		unused		
464		881	ea	SPLICE, automatic, 4/0 (6/1) ACSR Approved Brands: QPL EL#393 HPS (GL-409A) T & B (ATS-3040)
465-466		unused		
467		5497	ea	SPLICES, COMPRESSION, FULL TENSION FOR COPPER CONDUCTOR. On Qualified Products List EL569 Approved Brands: QPL #EL-569 Burndy (YDS 2C) Homac (Q2C7)
468		unused		
469		5498	ea	SPLICES, COMPRESSION, FULL TENSION FOR COPPER CONDUCTOR. On Qualified Products List EL569 Approved brands: QPL #EL-569 T & B (CTS4) Burndy (YDS4W) Homac (L2C4)
470		5499	ea	SPLICES, COMPRESSION, FULL TENSION FOR COPPER CONDUCTOR. On Qualified Products List EL569 Approved Brands: QPL #EL-569 T & B (CTS6) Burndy (YDS6W) Homac (J2C3)
471		5494	ea	SPLICE, compression, for 795 MCM (ARBUTUS) Approved Brands: QPL #EL-23 Burndy (YTS391A) Homac (2188)
472		unused		
473		5555	ea	SPLICE, compression, U/G, 250 MCM Str. Approved Brands: QPL #EL-176 Burndy (YS-29) Electrical Specialty Products (CSH-250) Homac (C-250) Anderson (VHS-250)
474-477		unused		
478		5558	ea	SPLICE, compression, U/G, 500 MCM Str. Approved Brands: QPL #EL-176 Burndy (YS-34) Electrical Specialty Products (CSH-500) Homac (C-500) Penn Union (BBCU050) Anderson (VHS-500)

479		5549	ea	SPLICE, compression, U/G, for #2 Str. Approved Brands: QPL #EL-176 Anderson (VHS-2) Burndy (YS-2C) Homac (C-2) Penn Union (BBCU2)
480-481		unused		
482		5552	ea	SPLICE, compression, U/G, for 1/0 str. Approved Brands: QPL #EL-176 Anderson (VHS-1/0) Burndy (YS-25) Electrical Specialty Products (CSH-1/0) Homac (C-1/0) Penn Union (BBCU1/0)
483		5553	ea	SPLICE, compression, U/G, for 2/0 str. Approved Brands: QPL #EL-176 Anderson (VHS-2/0) Burndy (YS-26) Electrical Specialty Products (CSH-2/0) Homac (C-2/0) Penn Union (BBCU2/0)
484		5554	ea	SPLICE, compression, U/G, for 4/0 str. Approved Brands: QPL #EL-176 Anderson (VHS-4/0) Burndy (YS-28) Homac (C-4/0) Penn Union (BBCU4/0)
485-498		unused		
499		9576	ea	STAPLE, ground molding, 3" x 1 1/16" x 1/4" Approved Brands: QPL #EL-309 A.B. CHANCE (C205-0220) LINDSEY (10270) ALLIED BOLT (25017) ELECT MAT CO (D3-1.06ZN) HUBBARD (8522) MPS (J 128)
500-505		unused		
506		6638	ea	SUPPORT, insulator, cable rack (1 insulator) Approved Brands: QPL #EL-110 Hubbell (DU3S1)
507		6639	ea	SUPPORT, insulator, cable rack (2 insulator) Approved Brands: QPL #EL-110 Hubbell (DU3S2)
508		6640	ea	SUPPORT, INSULATOR, CABLE RACK, 3 INSUL DU3S3. On Qualified Products List EL110 Approved Brands: QPL #EL-110 COOPER POWER (DU3S3) HPS (DU3S3)
509		unused		
510		unused		
511		unused		
512		1301	ea	TAP, Copper, C-Shape, 5/8" long, RUN #6 Sol. to #4 Str., TAP #6 Sol to #6 Str. Approved Brands: QPL EL-965 HPS (CP-46) Burndy (YC4C6) Homac (CC46) Penn-Union (CCT-46)
513		16832	ea	H-TAP, 3-WAY, INSULATED BUSS BAR WITH TEST POINT, 15KV Approved Brands Richards (P615JYO) Elastimold (K656CY-BUS)

514		unused		
515		16836	ea	H-TAP, STRAIGHT RECEPTACLE, 500 ADAPTER KIT, 15KV, WITH RETAINING RING, CABLE ADAPTER, LUG, BOLT AND WASHERS. "IN QPL EL-1591." Approved Brands: "IN QPL EL-1591." RICHARDS MFG (P615JS2L17) RICHARDS MFG (P625JSL17) T & B (K655YSR-L0320)
516		16838	ea	H-TAP, 3-WAY, INSULATED BUS BAR W/TEST POINT, 35KV Approved Brands: "IN QPL EL-1590." Richards (P635JYO) Elastimold (M656CY-BUSS)
517		16839	ea	H-TAP, 4-WAY, INSULATED BUS BAR W/TEST POINT, 35KV Approved Brands: "IN QPL EL-1590." Richards (P635JHO) Elastimold (M656CH-BUSS)
518		16840	kit	H-TAP, LIVE END CAP, 35KV WITH BAIL, EL-1589". Approved Brands: "IN QPL EL-1589." Richards (P635JIC) T & B (M655YDR)
Tape (Items 519-520)				
519		15174	rl	Tape, glass cloth, electrical 1/2" X 66' X .007" roll. Approved Brands: 3M Scotch (27) Ferro Fiber Glass (Unitape 900) Plymouth/Bishop (3451)
520		15183	rl	Tape, insulating, heat shrinkable, for 15KV BUS BAR, 2 inch width, 25 foot roll. Approved Brands: QPL EL-1343 Raychem (HVBT-2-R)
521		15179	rl	TAPE, ELECTRICAL, ALL-WEATHER VINYL, 3/4 INCH X 66 FT., 8.5 MILS THICK, UL LISTED. ON QUALIFIED PRODUCTS LIST EL-982 Must meet specification E-1802 Approved Brands: QPL #EL-982 3M (37) 3M (88)
522-534		unused		
535		7266	ea	TERMINAL KIT, with #2 compression lug, mounting hardware, and force fit sleeve. Approved Brands: QPL #EL-352 Burndy (RYA2UCR) Electrical Specialty Products (AL-2-TS) Homac (CFG2-CS) PENN-UNION (DBTBF-C1)
536		7267	ea	TERMINAL KIT, with 1/0 compression lug, mounting hardware, and force fit sleeve. Approved Brands: QPL #EL-352 Burndy (RYA25UCR) Electrical Specialty Products (AL-1/0 TS) Homac (CFG1/0-CS) Penn Union (DBTBF-010A)
537		7268	ea	TERMINAL KIT, with 3/0 compression lug, mounting hardware, and force fit sleeve. Approved Brands: QPL #EL-352 Burndy (RYA27UCR) Electrical Specialty Products (AL-3/0-TS) Homac (CFK3/0-CS) Penn Union (DBTBF-017)
538		unused		

539		1467	ea	<p>TERMINAL, Compression kits with Force fit sleeve Mole Tap #2/0 AWG AL 600V</p> <p>Approved Brands: QPL EL-1405 Burndy (RYA26UCR) ESP (AL2/0-TS) Homac (CFK-2/0-CS) Penn Union (DBTBF-013)</p>
540		5637	ea	<p>TERMINAL, 2-hole compression for 1000 KCMIL compact copper conductor. NEMA 2-hole pad with 9/16" holes, tinned copper tapered for high voltage application.</p> <p>Approved Brands: QPL #EL-148 HPS (BCL-100B2-TP DRILLED 1.125) MAC PRODUCTS (MRB-1000-8N-A.L.P. DRILLED 1.125)</p>
541		unused		
542		5623	ea	<p>Lug compression, for #2 copper or aluminum, one hole, for 1/2" bolt, prefilled with inhibitor.</p> <p>Approved Brands: QPL #EL-700 Burndy (YRA1CU-1) Homac (SA2-48) ERITECH (AD2-50)</p>
543		5625	ea	<p>LUG, COMPRESSION, 1/0, FOR COPPER OR ALUMINUM, ONE HOLE, FOR 1/2" BOLT. PREFILLED WITH INHIBITOR. ON QUALIFIED PRODUCTS LIST EL700</p> <p>Approved Brands: QPL #EL-700 Burndy (YRA25A-1) Eritech Inc. (AD-1/0-50) Homac (SA1/0-48)</p>
544-547		unused		
548		5610	ea	<p>LUG, COMPRESSION, FOR 250 MCM COPPER CABLE, TWO 9/16" HOLES IN TONGUE, SPACE 1 3/4" APART, MAXIMUM WIDTH OF TONGUE 1-3/4", SHALL BE ABLE TO MOUNT SIDE BY SIDE ON A 4 HOLE NEMA PAD. ON QPL EL-251.</p> <p>Approved Brands: QPL #EL-251 T & B (LCN250) Burndy (YA29-2N) ESP (CHL-250-BN) Homac (L250-N) MAC Products (MRB-250-8N) Penn Union (BBLU025D) HPS (CHL-250-BN)</p>
549		5612	ea	<p>LUG, COMPRESSION, FOR 500 MCM COPPER CABLE, TWO 9/16" HOLES IN TONGUE, SPACE 1- 3/4" APART, MAXIMUM WIDTH OF TONGUE 1-3/4", SHALL BE ABLE TO MOUNT SIDE BY SIDE ON A 4 HOLE NEMA PAD. ON QPL EL-251.</p> <p>Approved Brands: QPL #EL-251 T & B (LCN500) Burndy (YA34-2N) ESP (CHL-500-BN) Homac (L500-N) MAC Products (MRB-500-8N) Penn Union (BBLU050D) HPS (CHL-500-BN)</p>
550-552		unused		

553		5618	ea	<p>TERMINAL, LUG, SOLDERLESS, HEAVY DUTY, #4 TO # 1/0 (ALL SIZES), WITH HEX HEAD SCREWS, TONGUE DRILLED FOR ONE 3/8 INCH BOLT. ON QUALIFIED PRODUCTS LIST EL-427.</p> <p>Approved Brands: QPL #EL-427 Burndy (KA25) Mac Products (ML-125-H) T & B (L-125DH)</p>
554		5617	ea	<p>TERMINAL, LUG, SOLDERLESS, HEAVY DUTY, #2/0 TO #250 MCM (ALL SIZES), WITH HEX HEAD SCREWS, TONGUE DRILLED FOR ONE 3/8 INCH BOLT. ON QUALIFIED PRODUCTS LIST EL-427.</p> <p>Approved Brands: QPL #EL-427 Burndy (KA29-HEX) Mac Products (ML-250-H) T & B (L-250-H)</p>
555		5621	ea	<p>TERMINAL, SOLDERLESS, WITH SLOT HEAD SCREW, COPPER, SINGLE HOLE. On Qualified Products List EL429</p> <p>Approved Brands: QPL #EL-985 T & B (L-70) Burndy (KA4C) Dossert (D-70) Penn Union (PNL-4) DOSSERT (D-70)</p>
556		unused		
557		1379	ea	<p>SHORT DESCRIPTION TO READ "TERMINATION COLD SHRINK, 15KV FOR 1/0 AWG AL W/2 HOLE LUG."</p> <p>Approved Brands: QPL EL-1509 3M (7642-T-110/40132)</p>
558		24336		<p>TERMINATION KIT, INDOOR, COLD SHRINK, 1000 MCM FOR 15KV, EACH KIT CONTAINS SHEARBOLT TERMINATOR W/ INSTRUCTIONS AND SEALING STRIPS. ON QUALIFIED PRODUCTS LIST EL-067</p> <p>Approved Brands: QPL #EL-067 3M (7645-T-110(L)-QL2-A-500-1000)</p>
559-560		unused		
561		17824	ea	<p>TERMINATION KIT, Outdoor, Cold Shrink, Silicone Rubber, with Sealing Compounds and Stem Connector, Meets IEEE STD. 48-1996, Cable Insulation OD Range .64 - 1.08, 150KV BIL (4-skirt), 15KV Conductor Range, #2 - 4/0, for use with 15KV 1/0 AWG Aluminum Cable.</p> <p>Approved Brands: QPL EL-1508 3M (7652-S-4-1/0)</p>
562-567		unused		
568		24335	KIT	<p>TERMINATION KIT, INDOOR, COLD SHRINK, 1/0-350 MCM FOR 15KV, EACH KIT CONTAINS SHEAR TERMINATOR & SEALING STRIPS. ON QUALIFIED PRODUCTS LIST EL-067. REPLACES 19432 & 17824 PER STANDARDS COMMITTEE 8/28/19. DEplete STOCK OF 19432 & 17824 BEFORE ORDERING</p> <p>Approved Brands: QPL #EL-067 3M (7100175177)</p>

569		5488	ea	TIE, preformed, double pin, 1/0 ACSR TIES, PREFORMED, DOUBLE PIN CONSTRUCTION, 1/0 ACSR, FOR USE ON COMBINATION C AND F NECK 2 7/8" DIAMETER ANSI 55-4 CLASS INSULATORS. COLOR CODED YELLOW On Qualified Products List EL209 Approved Brands: QPL #EL-209 PREFORMED (DST-0153) MOSDORFER (SSDECF0409)
570		unused		
571		5486	ea	TIES, PREFORMED FOR SINGLE PIN CONSTRUCTION, FOR USE ON 55-4 CLASS INSULATOR. On Qualified Products List EL210 Approved Brands: QPL #EL-210 MOSDORFER (DTF0755P) PREFORMED (UTF-1210)
572-575		unused		
576		5485	ea	TIE, preformed, for single pin construction, for use on 55-4 class insulator 795,000 ALL AL TIE, preformed, for single pin construction, for use on 55-4 class insulator 795,000 ALL AL Approved Brands: QPL #EL-210 Perform Line Products (UTF-1213) MOSDORFER (DTF1096P)
577		5487	ea	TIES, PREFORMED FOR SINGLE PIN CONSTRUCTION, FOR USE ON 55-4 CLASS INSULATOR. On Qualified Products List EL210 Approved Brands: QPL #EL-210 PREFORMED (UTF-1205)
578		1239	ea	TIE, Side, Preformed, 1/0 ACSR, Single Pin Construction with Pad, Color Coded Yellow, 26" Applied Length. Approved Brands: QPL EL-1478 MOSDOFER (STF0405P) Dulmison (STF-0910-P) Preformed (STF-1155-P)
579		1240	ea	TIE, SIDE, PREFORMED, 795 MCM ACSR, SINGLE PIN CONSTRUCTION WITH PAD, COLOR CODED GREEN, F-NECK ON QUALIFIED PRODUCTS LIST EL-1478 Approved Brands: QPL EL-1478 Dulmison (STF-2460-P) Preformed (STF-1163-P) MOSDOFER (STF1096P)
580		5489	ea	TIE, SPOOL, PREFORM FOR USE ON 1/0 ACSR SECONDARY CONDUCTORS On Qualified Products List EL190 Approved Brands: QPL #EL-190 PREFORMED (SPL-1355-P) MOSDORFER (SPL0405)
581		823	ea	TIE, SIDE, DOUBLE, WITH PAD. FOR 795AA CONDUCTOR. PAD WILL BE SECURED TO TIE BY METAL REINFORCED TWIST TIE OR PLASTIC LOCKING TIE WRAP TO AVOID LOSS AFTER UNPACKING. ON QUALIFIED PRODUCTS LIST EL-1417 Approved Brands: Dulmison (DBST-2460) Performed (DBST-1111) MOSDORFER (DBSTCF1096)
582-589		unused		

590		1346	ft	<p>WIRE,QUADRUPLX,1/0 AWG,ALUM.,FULL ACSR NEUTRAL,XLP INSULATION,90 DEG C MAX OPERATING TEMP. (COSTINA). ONE LEG SHALL BE PERMANANTLY MARKED WITH A RIDGE THROUGHOUT THE ENTIRE LENGTH OF THE CABLE,WHICH CAN PHYSICALLY DETERMINED BY FEEL. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT SHALL BE 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT SHALL BE 32". PURCHASING FOOTAGE SHALL BE 1200 FT +/- 10%.</p> <p>Approved Brands: QPL #EL-1501 Alcan Cable BICC GENERAL CME Nehring ELEC Nexans Southwire</p> <p>Updated 3/12/15 Per MAX-2</p>
591		1347	ft	<p>WIRE,QUADRUPLX,4/0 AWG,ALUM.,FULL ACSR NEUTRAL,XLP INSULATION,90 DEG C MAX OPERATING TEMP. (APPALOOSA). ONE LEG SHALL BE PERMANANTLY MARKED WITH A RIDGE THROUGHOUT THE ENTIRE LENGTH OF THE CABLE,WHICH CAN PHYSICALLY DETERMINED BY FEEL. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10%.</p> <p>Approved Brands: QPL #EL-1501 Alcan Cable BICC GENERAL CME Nehring ELEC Nexans Southwire</p>
592		1348	ft	<p>WIRE, TRIPLEX, #4 AWG, ALUM., FULL ACSR NEUTRAL, XLP INSULATION,PERIWINKLE, 90 DEG C MAX. OPERATING TEMP. WIRE TO BE FURNISHED ON NONRETURNABLE WOOD REELS, MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB" AFTER "WOOD REELS PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10%.</p> <p>ON QUALIFIED PRODUCTS LIST EL1502.</p> <p>Approved Brands: QPL #EL-1502 Alcan Cable BICC CME Conductor Products Inc Nehring Nexan Southwire</p>

593		1349	ft	<p>WIRE,TRIPLEX,1/0 AWG,ALUM.,FULL ACSR NEUTRAL,XLP INSULATION,NERITINA,90 DEG C MAX OPERATING TEMP. WIRE SHALL BE FURNISHED ON NONRETURNALBE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT SHALL BE 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 500 FT. ON QUALIFIED PRODUCTS LIST EL1502.</p> <p>3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB</p> <p>Approved Brands: QPL #EL-1502</p> <p>Alcan Cable BICC CME Conductor Products Inc Nehring Nexan Southwire</p>
594		1350	ft	<p>WIRE,TRIPLEX,4/0 AWG, ALUM.,FULL ACSR NEUTRAL,XLP INSULATION,ZUZARA,90 DEG. C MAX OPERATING TEMP. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% . ON QUALIFIED PRODUCTS LIST EL14236</p> <p>Approved Brands: QPL #EL-1502</p> <p>Alcan Cable BICC CME Conductor Products Inc Nehring Nexan Southwire</p>
595		4689	ft	<p>WIRE,ACSR,POLYETHYLENE COVERED,6/1 STRANDING, CODE NAME BUTTERNUT. WIRE TO BE FURNISHED ON NON-RETURNABLE WOOD REELS, MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% . ON QUALIFIED PRODUCTS LIST EL670.</p> <p>Approved Brands: QPL EL-670</p> <p>ACPC Products Alcan Cable Alcoa American Electric BICC CME Essex Nexan Southwire</p>
596-601		unused		

602		18196	ft	<p>WIRE #6 AWG, MINIMUM 110 MIL XLPE, SOFT OR ANNEALED UNCOATED COPPER, CLASS B STRANDED, AS PER ASTM B3. WIRE SHALL BE IN COMPLIANCE WITH ICEA S-66-524 AND UL 1072. REEL SIZE MAX WILL BE 30" FLANGE AND 22" 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB OUTSIDE TO OUTSIDE. WIRE TO BE SUPPLIED ON NON-RETURNABLE WOOD REEL. PURCHASING FOOTAGE SHALL BE 500 FT +/- 10% . 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB ON QUALIFIED PRODUCTS LIST EL14250.</p> <p>***DO NOT PURCHASE ON PROCARD BECASUE NEED PO FOR REEL TRACKING ENTRY*** THIS WIRE SHALL BE USED AS TRANSFORMER RISER WIRE.</p> <p>Approved Brands: QPL EL-14250 BICC OKONITE PIRELLI CABLE SERVICE WIRE SOUTHWIRE ALAN WIRE</p>
603-607		unused		
608		4523	ft	<p>WIRE, bare, copper, MHD, solid #6, packaged in 25 lb hand coils or 25 lb reels.</p> <p>Approved Brands: QPL #EL-812 Allied Tube & Conduit CME Wire and Cable Republic Wire Service Wire Southwire</p>
609		4527	ft	<p>WIRE, bare, copper, soft drawn solid #6, 25 lb. reels</p> <p>Approved Brands: QPL #EL-117 Alan Wire Alcan Cable Allied Tube & Conduit CME Wire and Cable Nehring Electrical Republic Wire Service Wire Southwire</p>
610		1339	ft	<p>WIRE,DUPLEX,#4 ACSR NEUTRAL,#4 AL CONDUCTOR,CROSSLINKED POLYETHYLENE XLP INSULATION,TERRIER. ON QUALIFIED PRODUCTS LIST EL-1503. 2400 FT/REEL CABLE TO BE DELIVERED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT SHALL BE 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT SHALL BE 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB</p> <p>Approved Brands: QPL #EL-1503 Alcan Cable BICC GENERAL CME Nehring ELEC Nexans Southwire</p>
611		unused		

612		4529	ft	<p>WIRE COPPERWELD 3 STRD #6A 30% CONDUCTIVITY ON REEL: WIRE, SIZE 6A, COPPERWELD, 3 STRAND, .230 OVERALL DIA., 1 STRAND COPPERCLAD E.H.S. 30% CONDUCTIVITY WITH .1068 DIA., 2 STRANDS COPPER HARD DRAWN WITH .1068 DIA. EACH. WIRE SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT 30" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT 22". 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10%. ON QUALIFIED PRODUCTS LIST EL-688.</p> <p>Approved Brands: QPL EL-688 BICC GENERAL OKONITE PRYSMIAN CBL ROME WIRE</p>
613		382	ft	<p>CABLE, 3/0 AWG, 19 STRANDS, THHN-THWN, 600 VOLT, GASOLINE AND OIL RESISTANT, STRANDED COPPER CONDUCTOR, INSULATION: HIGH DIELECTRIC POLYVINYL CHLORIDE UL-83 & UL-1063. JACKET: NYLON UL-83 & UL-1063. BLACK COLOR CODED WITH CABLE IDENTIFICATION PRINTED ON JACKET. CABLE SHALL COME IN 1000 FT +/- 10%. LENGTHS. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT WILL BE 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT SHALL BE 32". "IN QPL EL-667"</p> <p>Approved Brands: QPL EL-667 CME NEHRING ELEC REPUBLIC WIR SERVICE WIRE SOUTHWIRE</p>
614		15567	ft	<p>Cable, 600V, 3 pair #16 AWG, twisted pair, stranded copper, overall shield (100% coverage), PVC/Nylon conductor insulation, with an overall PVC jacket. Color code: WHITE-1, BLACK-1, WHITE-2, BLACK-2, WHITE-3, BLACK-3. Cable shall be suitable for use in wet or dry locations at temperatures not to exceed 90 degree C, flame retardant, moisture and sunlight resistant. Cable to be supplied on non-returnable wood reels with pressed in steel hubs. The hubs shall have a 3 1/16 inch or greater hole. Metal reels are not acceptable. The reels shall have a maximum diameter of 50 inches and a maximum width of 32 inches. The cable length per reel shall be 3000 feet.</p> <p>Approved Brands: ALCATEL (2AS-1603POS) BELDEN (1527A) LAKE (V163PRS)</p>
615		4663	ft	<p>CABLE, NETWORK, 1 CONDUCTOR, 250 MCM, 37 STRANDED COPPER, 600 VOLTS. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 32". ON QPL PRODCUTS LIST EL-741, SPECIFICATION E-991. PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% .</p> <p>Approved Brands: QLP EL-741 BICC GENERAL CME OKONITE PRYSMIAN CBL SOUTHWIRE</p>

616		1332	ft	<p>CABLE, 3-350 KCMIL AND 1-4/0 AWG, ALUMINUM QUADRIplex, 600V TYPE USE-2, CODE NAME SLIPPERY ROCK. XPLE INSULATION. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT SHALL BE 66" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT SHALL BE 42".PURCHASING FOOTAGE SHALL BE 1000 FT.</p> <p>ON QUALIFIED PRODUCTS LIST EL1521.</p> <p>Approved Brands: QPL EL-1521</p> <p>ALCAN CABLE BICC GENERAL NEXANS OKONITE PRYSMIAN CBL</p>
617		1456	ft	<p>CABLE, 4/0 AWG QUADRIplex, 600 VOLT, REDUCED NETURAL (2/0), XLPE INSULATION TYPE USE-2, CODE NAME (WAKE FOREST). 90 DEGREE C OPERATING TEMPERATURE. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENTS 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENTS 32". PURCHASING FOOTAGE SHALL BE 1000 FT.</p> <p>ON QUALIFIED PRODUCTS LIST EL1521.</p> <p>Approved Brands: QPL EL-1521</p> <p>ALCAN CABLE BICC GENERAL NEXANS OKONITE PRYSMIAN CBL</p>
618		1343	ft	<p>CABLE, SINGLE CONDUCTOR, 350 KCMIL, 600V, ALUM., CROSSLINKED POLYETHYLENE XLPE INSULATION. TYPE USE 2, 90 DEGREE CENTIGRADE OPERATING TEMP., CODE NAME (RUTGERS). CABLE SHALL BE FURNISHED ON NON-RETURNABLE WOOD REELS. MAX FLANGE MEASUREMENT SHALL BE 50" AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMET SHALL BE 32". PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10%.</p> <p>ON QUALIFIED PRODUCTS LIST EL333 AND PURCasing SPEC E-716.</p> <p>3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB" AFTER "NON-RETURNABLE WOOD REELS</p> <p>Approved Brands: QPL EL-333</p> <p>ALCAN CABLE ALCATEL BICC GENERAL CME CYPRUS-WIRE</p>
619		15551	ft	<p>WIRE, DUPLEX, #4 ACSR NEUTRAL, #4 AL CONDUCTOR, CROSS LINKED POLYETHYLENE (XLP) INSULATION, TERRIER. CABLE TO BE FURNISHED IN 500 FT COILS. ON QUALIFIED PRODUCTS LIST EL-1503</p> <p>Approved Brands: QPL EL-1503</p> <p>ALCAN CABLE ALCOA BICC GENERAL CANADA WIRE NEHRING ELEC</p>

620		4682	ft	WIRE,WEATHERPROOF,POLYETHYLENE COVERED,MHD,7 STRANDED COPPER 4/0. REEL SHALL BE NON-RETURNABLE WOOD WITH PRESSED IN METAL HUB 3-1/16 INCH ARBOR HOLE, -0IN, +1/4IN ... THIS DIMENSION MUST BE MAINTAINED EVEN WITH THE USE OF THE PRESSED IN METAL HUB. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT 50" AND MAX OUTSIDE TO OUTSIDE MEASUREMENT 32". PURCHASING FOOTAGE SHALL BE 1000 FT +/- 10% . ON QUALIFIED PRODUCTS LIST EL667. Approved Brands: QPL EL-667 CME NEHRING ELEC REPUBLIC WIR SERVICE WIRE SOUTHWIRE
621		unused		
622		4641	ft	WIRE, guy, 5/16", 7 stranded, 500 ft. coils Siemens-Martin grade Approved Brands: QPL #EL-689 BERKERT NTNL STRAND
623-629		unused		
630		15504	ft	WIRE, TRIPLEX, #4 AWG, ALUMINUM, FULL ACSR NEUTRAL, XLPE INSULATION, 90 DEG C MAX OPERATING TEMP., (PERIWINKLE). CABLE SHALL BE FURNISHED IN 500 FT COILS +/- 10%. ON QUALIFIED PRODUCTS LIST EL1502. Approved Brands: QPL #EL-1502 Alcan Cable BICC CME Wire and Cable Conductor Product Nehring Nexan Southwire
631		4531	ft	WIRE, tie, aluminum, solid, #4 bare, soft drawn. Approved Brands: QPL #EL-124 Alcan Cable Canada Wire CME Wire and Cable Kaiser Nehring Service Wire Southwire Company Tipper Tie
Pole Line Hardware (Items 632-653)				
632		8686	ea	Bolt, 5/8 X 14, double arming, hot dip galvanized, full length threaded, furnished with four square nuts assembled. Approved Brands: QPL #EL-112 HPS (8864) HUGHES BROS (TR614-F) MPS (J8864) ALLIED BOLT (5954) COOPER POWER (DF2D14) ALUMA FORM (AF8864)
633		8690	ea	BOLT, 5/8 X 22, double arming, hot dip galvanized, full length threaded, furnished with four square nuts assembled. Approved Brands: #QPL EL-112 HPS (8872) HUGHES BROS (TR622-F) MPS (J8872) ALLIED BOLT (5962) COOPER POWER (DF2D22) ALUMA FORM (AF8872)

634		8694	ea	<p>BOLT, 3/4 X 32 , double arming, hot dip galvanized, full length threaded, furnished with four square nuts assembled.</p> <p>Approved Brands: QPL #EL-112 HPS (889832) MPS (J8899) HUGHES BROS (TR732-F) ALLIED BOLT (5997) COOPER POWER (DF3D32)</p>
635		8443	ea	<p>PURCHASING DESCRIPTION BOLT, LAG, FETTER DRIVE THREADS, GALVANIZED 1/2" X 4". On Qualified Products List EL344</p> <p>Approved Brands: QPL #EL-344 A.B. CHANCE (508754) MPS (8754) MPS (8754P) MPS (J8754) ALLIED BOLT (529) POWER LINE (P8754P) UTILITIES SRV (5370) COOPER POWER (DF9L4)</p>
636		8419	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. MINIMUM TENSILE STRENGTH SHALL BE 12400 LBS OR GREATER. ON QPL EL121</p> <p>Approved Brands: QPL #EL-121 A.B. CHANCE (8812) COOPER POWER (DF3B12) POWER LINE (P8812) ALLIED BOLT (8224) MPS (J8812) SHAKESPEARE (U8812) ALUMA FORM (AF8812)</p>
637		8420	ea	<p>BOLT, G5 5/8 X 14 , machine, square head, rolled threads, hot dip galvanized, furnished with one square nut assembled.</p> <p>Approved Brands: QPL #EL-121 A.B. CHANCE (8814) COOPER POWER (DF3B14) ALLIED BOLT (8226) MPS (J8814) POWER LINE (P8814) ALUMA FORM (AF8814)</p>
638		8421	ea	<p>BOLT, G5 5/8 X 16, machine, square head, rolled threads, hot dip galvanized, furnished with one square nut assembled.</p> <p>Approved Brands: QPL #EL-121 A.B. CHANCE (8816) COOPER POWER (DF3B16) POWER LINE (D8816) MPS (J8816) ALLIED BOLT (8228) ALUMA FORM (AF8816)</p>
639		8427	ea	<p>BOLT, G5 3/4 X 3, machine, square head, rolled threads, hot dip galvanized, furnished with one square nut assembled.</p> <p>Approved Brands: QPL #EL-122 HUGHES BROS (B73-1 3/4) MPS (J8903) ALLIED BOLT (8151) COOPER POWER (DF4B3)</p>

640		8429	ea	<p>BOLTS, MACHINE, SQUARE HEAD, ROLLED THREADS, HOT DIP GALVANIZED, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. MINIMUM TENSILE STRENGTH SHALL BE 18350 LBS OR GREATER. ON QPL EL122.</p> <p>Approved Brands: QPL #EL-122 A.B. CHANCE (8912) MPS (J8912) ALLIED BOLT (8242) SHAKESPEARE (U8912) COOPER POWER (DF4B12) ALUMA FORM (AF8912)</p>
641		8430	ea	<p>BOLT, G5 3/4 X 14, machine, square head, rolled threads, hot dip galvanized, furnished with one square nut assembled.</p> <p>Approved Brands: QPL #EL-122 A.B. CHANCE (8914) HUGHES BROS (B714-6) MPS (J8914) ALLIED BOLT (8244) COOPER POWER (DF4B14) ALUMA FORM (AF8914)</p>
642		870	PR	<p>BRACE, cross arm, wood, 26" long, 7/16" hole on the arm side and 9/16" hole on the pole side for 8' cross arms, min. ultimate strength 1400 lbs. On qualified products list EL-1551.</p> <p>Approved Brands: QPL #EL-1551 ALUMA FORM (AF626) HUGHES BROS (2023) BARFIELD (BAB-626) MPS (J5526) MPS (JA5526)</p>
643		8440	ea	<p>EYEBOLT, FORGED, ROLLED THREADS, HOT DIP GALVANIZED, 5/8" DIAMETER, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. MINIMUM TENSILE STRENGTH SHALL BE 12400 LBS OR GREATER. ON QPL EL115.</p> <p>Approved Brands: QPL #EL-115 A.B. CHANCE (29962) ALLIED BOLT (4104) MPS. (J9412) COOPER POWER (DF2E12) ALUMA FORM (AF9412)</p>
644		8441	ea	<p>EYEBOLT, FORGED, ROLLED THREADS, HOT DIP GALVANIZED, 5/8" DIAMETER, FURNISHED WITH ONE SQUARE NUT ASSEMBLED. MINIMUM TENSILE STRENGTH SHALL BE 12400 LBS OR GREATER. ON QPL EL115</p> <p>Approved Brands: QPL #EL-115 A.B. CHANCE (29964) ALLIED BOLT (4105) MPS (J9414) COOPER POWER (DF2E14) ALUMA FORM (AF9414)</p>
645		6536	ea	<p>PIN, INSULATOR ADAPTER FOR 5/8" BOLT, GALVANIZED, WITH 1" LEAD THREAD.</p> <p>On Qualified Products List EL238</p> <p>Approved Brands: QPL #EL-238 COOPER POWER (DP1A1) HPS (4258) HPS (DP1A1) MPS (J2840)</p>

646		518	ea	<p>WASHER, Bellville spring, 6000 lbs load, 1/2 inch, 301 alloy stainless steel, 1.125 inch O.D. X .515 I.D. X .125 inch thick. PACKING WILL BE 100 PIECES PER BOX"</p> <p>Approved Brands: QPL #EL-188 Key Bellvilles Inc. (K1125-E-125-S) Solon Manufacture (8188125301)</p>
647		1236	ea	<p>WASHER, coil spring, for 5/8" bolt, mechanically plated with zinc and tin, travel distance .20" TO .22", maximum deflection at 750 pounds is .11". PLEASE ADD "PACKING WILL BE 100 PIECES PER BOX".</p> <p>Approved Brands: QPL #EL-1476 ELECT MAT CO (M-W 5/8-100) HPS (CMW58-100)</p>
648		1235	ea	<p>WASHER, coil spring, for 3/4" bolt, mechanically plated with zinc and tin, travel distance is .20" TO .22", maximum deflection at 750 pounds is .0143". "PACKING WILL BE 100 PIECES PER BOX".</p> <p>Approved Brands: QPL #EL-1476 ELECT MAT CO (MW ¾-100) HPS (CMW34-100)</p>
649		8494	ea	<p>WASHER, 1/2 inch, round, hot dip galvanized.</p> <p>Approved Brands: QPL #EL-267 HPS (6803) MPS (J1086) ALLIED BOLT (104) COOPER POWER (DF1W2) ALUMA FORM (AF1086)</p>
650		8480	ea	<p>WASHER, 1/2 inch, split lock, hot dip galvanized.</p> <p>Approved Brands: QPL #EL-276 HPS (4035) MPS (J138) ALLIED BOLT (6100) COOPER POWER (DF7W3) ALUMA FORM (AF138)</p>
651		8482	ea	<p>WASHER, 3/4 inch, split lock, hot dip galvanized.</p> <p>Approved Brands: QPL #EL-276 HPS (4037) MPS (J-140) ALLIED BOLT (6102) COOPER POWER (DF7W7) ALUMA FORM (AF140)</p>
652		8500	ea	<p>WASHER, 3-1/4 X 3-1/4 X ¼ inch, square, curved, hot dip galvanized, for 5/8" & 3/4" bolts.</p> <p>Approved Brands: QPL #EL-264 A.B. CHANCE (6825) COOPER POWER (DF4W9) MPS (J133) ALLIED BOLT (231) HPS (DF4W9)</p>
653		8499	ea	<p>WASHER, 2-1/4 IN X 2-1/4 IN X 3/16 inch, square, hot dip galvanized with 13/16" hole.</p> <p>Approved Brands: QPL #EL-259 HPS (6814) MACLEAN/JOSLYN (J1076)</p>

654		19616	ea	<p>KIT, ELBOW, DEADBREAK, 600AMP/15KV 1/0 AL AWG COMPRESSED WITH TEST POINT, INSULATING CAP, LOADBREAK REDUCER, 600 AMP T-BODY HOUSING, CABLE ADAPTER, AND LUG FOR USE ON 1/0 AL COMPRESSED. ON QPL EL-1515.</p> <p>Approved Brands: QPL #EL-1515 COOPER POWER (BTP615C13ASTC) T & B (656ETP-G0240-DRG) RICHARDS MFG (61ETPT3G9-202)</p>
CONDUCTOR TRANSMISSION 100%				
661		4539	FT	<p>WIRE 795 MCM ACSR (26/7) DRAKE AS PER SPEC E-0814. MATCHED SETS. 10,400FT, CONDUCTOR LENGTH FOR EACH REEL SHALL BE WITHIN +/- 100 FEET. RETURNABLE METAL REEL WOOD LAGGED, TAGGED. <u>AUSTIN ENERGY WILL PURCHASE FROM ONE SUPPLIER A MATCHED SET OF REELS OF THIS WIRE TO MEET 100% OF THE TOTAL LINEAR FOOTAGE NEEDED FOR EACH CONSTRUCTION PROJECT. EACH PURCHASE WILL BE AWARDED TO THE LOWEST BIDDER THAT HAS IN STOCK A MATCHED SET OF REELS WITH SUFFICIENT QUANTITY TO MEET THE TOTAL LINEAR FOOTAGE QUANTITY REQUESTED BY AUSTIN ENERGY. Matched Set is defined as wire manufactured from the same production run.</u></p> <p>PURCHASE SPECIFICATION E-0814</p> <p>APPROVED BRANDS: SPEC E-0814</p> <p>QPL EL-1008 (DRAKE (26/7) ALCAN CABLE ALCATEL ALCOACONDUCT BICC GENERAL ESSEX</p>
662		19973	FT	<p>WIRE 795 MCM ACSS (26/7) DRAKE AS PER SPEC E- 1657. MATCHED SETS. 10,400FT, CONDUCTOR LENGTH FOR EACH REEL SHALL BE WITHIN +/- 100 FEET. RETURNABLE METAL REEL WOOD LAGGED TAGGED. <u>AUSTIN ENERGY WILL PURCHASE FROM ONE SUPPLIER A MATCHED SET OF REELS OF THIS WIRE TO MEET 100% OF THE TOTAL LINEAR FOOTAGE NEEDED FOR EACH CONSTRUCTION PROJECT. EACH PURCHASE WILL BE AWARDED TO THE LOWEST BIDDER THAT HAS IN STOCK A MATCHED SET OF REELS WITH SUFFICIENT QUANTITY TO MEET THE TOTAL LINEAR FOOTAGE QUANTITY REQUESTED BY AUSTIN ENERGY. Matched Set is defined as wire manufactured from the same production run.</u></p> <p>PURCHASE SPECIFICATION E-1657</p> <p>APPROVED BRANDS: SPEC E-1657</p> <p>ALCAN CABLE (DRAKE (26/7) BLE (DRAKE (26/7) SOUTHWIRE (DRAKE (26/7)</p>
663		22447	FT	<p>WIRE #4 STRANDED SOFT DRAWN UNCOATED COPPER PER ASTM B-3 WITH A MINIMUM OF 110 MILLS OF BLACK POLYETHYLENE PER ASTM D-1248. WIRE SHALL CONFORM TO ANSI/ICEA S-70-547. WIRE SHALL BE CHEMICAL, OIL, MOISTURE, CRUSH, ABRASION, AND SUNLIGHT RESISTANT AND SHALL BE ROHS COMPLIANT. DELIVERED ON NON-RETURNABLE WOOD REELS WITH PRESSED IN METAL HUB 3-1/16" OR GREATER ARBOR HOLE. STEEL PLATE HUBS ARE NOT ACCEPTED. MAX FLANGE MEASUREMENT OF 30 INCHES AND MAX OUTSIDE TO OUTSIDE WIDTH MEASUREMENT OF 22 INCHES, PURCHASING FOOTAGE SHALL BE 500 FEET +/- 10%. ON QPL EL-1477. THIS ITEM REPLACES ITEM NUMBER 1238.</p> <p>APPROVED BRANDS:</p> <p>ALAN WIRE BICC GENERAL OKONITE PRYSMIAN CBL SERVICE WIRE SOUTH WIRE</p>

664		19241	FT	WIRE, COPPERWELD STEEL, 19 NO. 9, 40% COND, SOFT ANNEAL 1000FT/RL, SHORT-TIME FUSING CURRENTS: 41,000 AMPS FOR 0.5 SEC (MIN) AND 29,000 AMPS FOR 1.0 SEC (MIN) APPROVED BRANDS: ACA CONDUCTOR (19 NO. 9) AFL GLOBAL (19 NO. 9) COMMSCOPE (M49114F) NEHRING ELEC (19 NO. 9)
ENCLOSURE PMC				
665		unused		
345 KVA INSULATORS				
666		unused		
667		unused		
BAG XRM R OIL CONTAINMENT				
668		458	EA	BAG, TRANSFORMER OIL CONTAINMENT, USED FOR LEAKING TRANSFORMERS (OIL), BAG TO FIT 15KVA THRU 100KVA POLE MOUNT TRANSFORMERS. BAG SHALL HAVE ADJUSTABLE BUILT-IN DRAW STRINGS AT TOP AND MIDDLE OF BAG. BAG SHALL FIT TRANSFORMER WHILE MOUNTED ON POLE, WITH SIDE SLIT AND VELCRO CLOSURE TO ALLOW BAG TO FIT AROUND MOUNTING BRACKETS. BAG SHALL HAVE PLASTIC HANGERS AT THE TOP OF THE BAG TO TEMPORARILY ATTACH BAG TO TRANSFORMER LUGS. OIL SELECTIVE PADS SHALL BE PLACED IN THE BOTTOM OF BAG TO SOAK UP LEAKING FLUIDS. BAG SHALL BE MADE OF MINIMUM 10 MILS. POLYETHYLENE, EACH. ANDAX P/N TFSO55. APPROVED BRANDS: ANDAX (TFSO55)
700		18189	EA	BAG, TRANSFORMER OIL CONTAINMENT, USED FOR LEAKING TRANSFORMERS (OIL), BAG TO FIT 100KVA THRU 167KVA POLE MOUNT TRANSFORMERS. BAG SHALL HAVE ADJUSTABLE BUILT-IN DRAW STRINGS AT TOP AND MIDDLE OF BAG. BAG SHALL FIT TRANSFORMER WHILE MOUNTED ON POLE, WITH SIDE SLIT AND VELCRO CLOSURE TO ALLOW BAG TO FIT AROUND MOUNTING BRACKETS. BAG SHALL HAVE PLASTIC HANGERS AT THE TOP OF THE BAG TO TEMPORARILY ATTACH BAG TO TRANSFORMER LUGS. OIL SELECTIVE PADS SHALL BE PLACED IN THE BOTTOM OF THE BAG TO SOAK UP LEAKING FLUIDS. BAG SHALL BE MADE OF MINIMUM 10MILS, POLYETHYLENE, 5 EACH PER BOX. ANDAX P/N TFS 075. APPROVED BRANDS: ANDAX (TFS075)
743		18287	EA	CONNECTOR COMPRESSION ALUMINUM INSULATED 4/0 TO 4/0 APPROVED BRANDS: HOMAC (XIN4040) PENN UNION (PIK-4040)
748		22206	EA	CONNECTOR INSULATED COMP SERV ENTRANCE 1/0-4/0 APPROVED BRANDS: HOMAC (X1N4010) PENN UNION (PIK-400)
759		16807	EA	FUSE REFILL UNIT FOR SWITCHGEAR 65E AMP SML-4Z HOLDER APPROVED BRANDS: S&C ELECTRIC (252100R4)
765		16809	EA	FUSE REFILL UNIT FOR SWITCHGEAR 150E AMP SML-4Z HOLDER APPROVED BRANDS: S&C ELECTRIC 252250R4

890		19434	EA	TERMINATION KIT INDOOR COLD SHRINK 1000 MCM FOR 15KV APPROVED BRANDS: 3M 7645-T-110
934		unused		

EXHIBIT B - MONTHLY PRICING SUBMITTAL
FORM EXAMLE

NEW ITEM	CITY STOCK #	UNIT	FIRM PRICE
CERTIFIED STOCK LIST ITEMS 1-92			
1-22	unused		
23	907	ea	
24	4719	ea	
25-27	unused		
28	6504	ea	
29	unused		
30	unused	ea	
31	16477	ea	
32	1195	ea	
33	1207	linear/ft	
34	1208	linear/ft	
35	1422	linear/ft	
35.1	19558	linear/ft	
36	1644	linear/ft	
36.1	1644	linear/ft	
37	1696	linear/ft	
38	1697	linear/ft	
39	1698	linear/ft	
40	1746	linear/ft	
41	1650	linear/ft	
41.1	1650	linear/ft	
42	1649	linear/ft	
42.1	1649	linear/ft	
43	15478	linear/ft	
44	1242	ea	
45	1248	ea	
46	15552	ea	
47	15553	ea	
48	15550	ea	
49	5663	ea	
50	9797	ea	
51	9796	ea	
52	22720	ea	
53	22721	ea	
54	18198	ea	
55	unused		
56	21883	ea	
57	6813	ea	
58	820	ea	
59	6611	ea	

60	6553	ea	
61	1278	ea	
62	1279	ea	
63	1280	ea	
64	1282	ea	
64.1	1292	ea	
65	15993	ea	
66	unused	ea	
66.1	5536	ea	
67	5483	ea	
68	880	ea	
69	4537	ft	
70	4530	Lg reel/ft	
71	1458	Sm reel/ft	
72	851	ft	
73	unused		
74	1415	ft	
75	889	ft	
76	19509	ea	
77	19510	ea	
78	19511	ea	
79	19512	ea	
80	19513	ea	
81	19514	ea	
82	19515	ea	
83	19516	ea	
84	19517	ea	
85	19518	ea	
86	19519	ea	
87	19520	ea	
88	19521	ea	
89	19522	ea	
90	19523	ea	
91	19524	ea	
92	19525	ea	
MONTHLY SUPPLY AGREEMENT ITEMS 1-654			
1	4727	ea	
2	4728	ea	
3-11	unused		
12	unused		
13	6506	ea	
14	654	ea	
15	643	ea	
16	656	ea	
17	655	ea	

18	unused		
19	8412	ea	
20	8413	ea	
21	8414	ea	
22	8415	ea	
23	8416	ea	
24	8417	ea	
25	8422	ea	
26	8423	ea	
27	8424	ea	
28	8428	ea	
29	8431	ea	
30	8432	ea	
31	8433	ea	
32	8437	ea	
33	8439	ea	
34	871	ea	
35	1200	ea	
36	8687	ea	
37	8688	ea	
38	8689	ea	
39	8693	ea	
40	8695	ea	
41	8510	ea	
42	8361	ea	
43	8362	ea	
44	unused		
45	1418	ea	
46	unused		
47	unused		
48	1361	ea	
49-51	unused		
52	6581	ea	
53-56	unused		
57	1203	ea	
58-61	unused		
62	4673	ft	
63	4674	ft	
64	4672	ft	
65	unused		
66	4533	ft	
67-70	unused		
71	4534	ft	
72	unused		
73	4536	ft	

74-87	unused		
88	4664	1/C/F	
89	19439	FT	
90	421	3/C/F	
91	15475	ft	
92-96	unused		
97	1870	ft	
98	4606	ft	
99	1082	ft	
100	1328	ft	
101	1330	ft	
102	1455	ft	
103	4675	ft	
104-105	unused		
106	6817	ea	
107	6816	ea	
108	22947	ea	
109	6849	ea	
110	17302	ea	
111-113	unused		
114	6826	ea	
115	6823	ea	
116	unused		
117	6825	ea	
118	879	ea	
119	6827	ea	
120	6828	ea	
121	1216	ea	
122	6700	ea	
123	6701	ea	
124-127	unused		
128	6702	ea	
129	1335	ea	
130	6631	ea	
131-160	unused		
161	5511	ea	
162	6835	ea	
163	6833	ea	
164	6834	ea	
165	5669	ea	
166	5670	ea	
167	19255	ea	
168	16504	ea	
169	15521	ea	
170	15481	ea	

171	5605	ea	
172	5533	ea	
173	5534	ea	
174	5603	ea	
175	5604	ea	
176	5599	ea	
177	5601	ea	
178	5515	ea	
179	5518	ea	
180	5516	ea	
181-183	unused		
184	5519	ea	
185	5520	ea	
186	5517	ea	
187	5513	ea	
188	5512	ea	
189	5514	ea	
190	unused		
191	5523	ea	
192	5529	ea	
193-199	unused		
200	1410	ea	
201	1412	ea	
202-204	unused		
205	4715	ea	
206-211	unused		
212	6838	ea	
213	6840	ea	
214	6839	ea	
215	6841	ea	
216	6842	ea	
217-218	unused		
219	1464	ea	
220	6804	ea	
221	6805	ea	
222-225	unused		
226	6806	ea	
227	6807	ea	
228	1246	ea	
229-230	unused		
231	1247	ea	
232	unused		
233	1241	ea	
234	18284	ea	
235	18285	ea	

236-245	unused		
246	7414	ea	
247	22997	ea	
248	7413	ea	
249-257	unused		
258	1724	kt	
259	6679	ea	
260	6691	ea	
261	6819	ea	
262	24227	ea	
263	6690	ea	
264	19428	ea	
265	19429	ea	
266	19430	ea	
267	23021	ft	
268	4650	ea	
269	4649	ea	
270	4648	ea	
271	1263	ea	
272	unused		
273	15537	ea	
274	15540	ea	
275	21898	ea	
276	15542	ea	
277	15543	ea	
278	15544	ea	
279	22438	ea	
280	15546	ea	
281	15547	ea	
282	15548	ea	
283	5681	ea	
284	5682	ea	
285	unused		
286	22725	ea	
287	5685	ea	
288	5686	ea	
289	5687	ea	
290	1083	ea	
291	5689	ea	
292	5690	ea	
293	5691	ea	
294	5680	ea	
295	1092	ea	
296	18020	ea	
297	unused		

298	18031	ea	
299	18022	ea	
300	22704	ea	
301	5876	ea	
302-315	unused		
316	18206	ea	
317	6789	ea	
318	920	ea	
319	6784	pr	
320-324	unused		
325	6530	ea	
326-331	unused		
332	6541	ea	
333-340	unused		
341	817	ea	
342	17301	ea	
343-344	unused		
345	unused		
346	503	ea	
347	7418	ea	
348-351	unused		
352	7417	ea	
353	504	ea	
354	1405	ea	
355	18835	ea	
356	unused		
357	1363	ea	
358	unused		
359	1366	ea	
360	unused		
361	1364	ea	
362-365	unused		
366	1368	ea	
367	1360	ea	
368	1646	ea	
369	1647	ea	
370	1271	ea	
371-394	unused		
395	6624	ea	
396	1275	ea	
397	7120	ea	
398	unused		
399	18258	ea	
400	8471	ea	
401	8470	ea	

402-405	unused		
406	6613	ea	
407-411	unused		
412	unused		
413	unused		
414	unused		
415	unused		
416	unused		
417	unused		
418	unused		
419	unused		
420	unused		
421	unused		
422	unused		
423	unused		
424	unused		
425-426	unused		
427	6632	ea	
428-436	unused		
437	6527	ea	
438	6523	ea	
439	7469	ea	
440	unused		
441	6509	ea	
442	5530	ea	
443	7415	ea	
444-454	unused		
455	7287	ea	
456-458	unused		
459	5502	ea	
460	5504	ea	
461-463	unused		
464	881	ea	
465-466	unused		
467	5497	ea	
468	unused	ea	
469	5498	ea	
470	5499	ea	
471	5494	ea	
472	unused		
473	5555	ea	
474-477	unused		
478	5558	ea	
479	5549	ea	
480-481	unused		

482	5552	ea	
483	5553	ea	
484	5554	ea	
485-498	unused		
499	9576	ea	
500-505	unused		
506	6638	ea	
507	6639	ea	
508	6640	ea	
509	unused	ea	
510	unused	ea	
511	unused	ea	
512	1301	ea	
513	16832	ea	
514	unused		
515	16836	ea	
516	16838	ea	
517	16839	ea	
518	16840	kit	
519	15174	rl	
520	15183	rl	
521	15179	rl	
522-534			
535	7266	ea	
536	7267	ea	
537	7268	ea	
538	unused		
539	1467	ea	
540	5637	ea	
541	unused		
542	5623	ea	
543	5625	ea	
544-547	unused		
548	5610	ea	
549	5612	ea	
550-552	unused		
553	5618	ea	
554	5617	ea	
555	5621	ea	
556	unused		
557	1379	ea	
558	24336	kit	
559-560	unused		
561	17824	ea	
562-567	unused		

568	24335	kit	
569	5488	ea	
570	unused		
571	5486	ea	
572-575	unused		
576	5485	ea	
577	5487	ea	
578	1239	ea	
579	1240	ea	
580	5489	ea	
581	823	ea	
582-589	unused		
590	1346	ft	
591	1347	ft	
592	1348	ft	
593	1349	ft	
594	1350	ft	
595	4689	ft	
596-601	unused		
602	18196	ft	
603-607	unused		
608	4523	ft	
609	4527	ft	
610	1339	ft	
611	unused		
612	4529	ft	
613	382	ft	
614	15567	ft	
615	4663	ft	
616	1332	ft	
617	1456	ft	
618	1343	ft	
619	15551	ft	
620	4682	ft	
621	unused		
622	4641	ft	
623-629	unused		
630	15504	ft	
631	4531	ft	
632	8686	ea	
633	8690	ea	
634	8694	ea	
635	8443	ea	
636	8419	ea	
637	8420	ea	

638	8421	ea
639	8427	ea
640	8429	ea
641	8430	ea
642	870	ea
643	8440	ea
644	8441	ea
645	6536	ea
646	518	ea
647	1236	ea
648	1235	ea
649	8494	ea
650	8480	ea
651	8482	ea
652	8500	ea
653	8499	ea
654	19616	ea

CONDUCTOR TRANSMISSION

661	4539	FT
662	19973	FT

WIRE

663	22447	FT
664	19241	FT

ENCLOSURE PMC

665	unused
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345 KVA INSULATORS

666	unused
667	unused

BAG XRMR OIL CONTAINMENT

668	458	EA
700	18189	EA
743	18287	EA
748	22206	EA
759	16807	EA
765	16809	EA
890	19434	EA

934	unused
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EXHIBIT C - SAMPLE CERTIFIED STOCK LIST

CERTIFIED STOCK LIST & CRITICAL MONTHLY ITEMS-ONE DISTRIBUTOR.

(To be submitted by 10:00 AM every Tuesday)

Beginning (Month / Day / Year)

I have prepared the following stock list and hereby certify that the quantities indicated herein are in stock at the location designated and are available for immediate delivery to the City of Austin. All items shown herein represent stock available at the close of business Monday, and are set forth in this statement pursuant to competitive bidding policies of the City of Austin, Texas

Vendor Name :				Prepared By		DATE:		
NEW ITEM	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
CERTIFIED STOCK LIST ITEMS 1-92								
1-22	unused							
23	907	XFMR MINI PAD MT 50 KVA 1PH EL206	ea					
24	4719	BUS BAR COP 3/8 IN X 6 IN X 12 FT QPL #EL261	ea					
25-27	unused							
28	6504	ANCHOR, expanding, for 5/8" or 3/4" rod sizes. QPL #EL-96	ea					
29	unused							
30	unused							
31	16477	ARRESTER, Surge, 10KV, 8.4KV MCOV QPL EL1210	ea					
32	1195	BRACKET, Fiberglass Triple Ear 18" 1-1/2 Dia Shaft QPL #EL-1467	ea					
33	1207	Cable, Power, 15 KV, Aluminum, 1/0 AWG,1C, XLPE 133% Insulation Full Neutral, QPL #EL-472, Spec E-1517 *4/11/19 - Per David Kotal & Stuart Pitts, noted as "URD" - underground residential distribution.	linear/ft					
34	1208	Cable, Power, 15 KV, Aluminum Parallel, 1/0 AWG, 3C, XLPE 133% Insulation, 1/3 Neutral, QPL #EL-1473, Spec E-1531D Latest Revision *4/11/19 - Per David Kotal & Stuart Pitts, noted as "URD" - underground residential distribution.	linear/ft					
35	1422	Cable, Power, 15kV, Copper, 1000 MCM, 1/C, Jacketed Concentric Neutral, EPR, QPL #EL-1532, Spec E-992.	linear/ft					
35.1	19558	Cable, Power, 15kV, Copper, 1000 MCM, 1/C, Jacketed Concentric Neutral, EPR, Spec E-992 QPL #EL-1532	linear/ft					
36	1644	Cable, Power, 15kV, Copper, 500 MCM, 1/C, Jacketed Concentric Neutral, EPR, QPL #EL-1532, Spec E-992 Latest Revision	linear/ft					
36.1	1644	Cable, Power, 15kV, Copper, 500 MCM, 1/C, Jacketed Concentric Neutral, EPR, QPL #EL-1532, Spec E-992 dated 1/26/00.	linear/ft					
37	1696	Cable, power, 15KV, 3/C, parallel, #1/0 AWG, copper, jacketed concentric neutral, EPR. QPL # EL-1532, Spec E-992 Latest Revision.	linear/ft					
38	1697	Cable, power, 15KV, 3/C, parallel, 250 MCM, copper, jacketed concentric neutral, EPR 3600/ft. QPL # EL-1532, Spec E-992 dated 1/26/00.	linear/ft					
39	1698	Cable, power, 15KV, 3/C, parallel, 500 MCM, copper, jacketed concentric neutral, EPR 3600/ft. QPL # EL-1532, Spec E-992 dated 1/26/00.	linear/ft					
40	1746	Cable Pwr 15KV AL 1/0 AWG 3/C XLPE FL Neut 3000/FT. ON QPL EL-1473.	linear/ft					
41	1650	Cable Power 35KV 3C 350 MCM JCN 3600 FT Plus Or Minus 10 PCT, EPR. ON QPL# EL-1550. Spec E-992.	linear/ft					
41.1	1650	Cable Power 35KV 3C 350 MCM JCN 3600 FT Plus Or Minus 10 PCT, EPR. ON QPL# EL-1550. Spec E-992	linear/ft					
42	1649	Cable, Power, 35KV, copper, #1/0, 3/C, parallel, jacketed concentric neutral, EPR. QPL EL-1550, Spec E-992.	linear/ft					
42.1	1649	Cable, Power, 35KV, copper, #1/0, 3/C, parallel, jacketed concentric neutral, EPR. QPL EL-1550, Spec E-992.	linear/ft					
43	15478	Cable, Station Control, 12 Conductor, 600 VOLT, 10 AWG, Class C, 19 Strand, Soft Drawn, Bare Copper Conductor, ON 2,500 FT Reels With 3 In Arbor Hole. QPL EL-738 Spec E-0856 Latest Revision	linear/ft					
44	1242	CONNECTOR, Elbows, Loadbreak, 200 amp, for 1/0 Aluminum Cable, with Test Point. QPL #EL-940.	ea					

NEW ITEM	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
45	1248	CONNECTOR, Transformer Secondary, Disconnectable, 5/8" Stud, with 6 Outlets, Cable Range #6 to 350 MCM, with Streetlight Option and Clear Insulating Cover. QPL #EL-1482.	ea					
46	15552	DEADEND, Arm, Fiberglass 5 Foot Overall Length, 9,500 lb. Minimum Strength per Phase. Gray. QPL #EL-14240.	ea					
47	15553	DEADEND, Arm, Fiberglass 8 Foot Overall Length, 9,500 lb. Minimum Strength per Phase. Gray. QPL #EL-14240.	ea					
48	15550	DEADEND, Arm, Fiberglass 10 Foot Overall Length, 9,500 lb. Minimum Strength per Phase. Gray. QPL #EL-14240.	ea					
49	5663	CONNECTOR, terminal, compression 795 MCM aluminum with inhibitor, 2-hole pad. QPL #EL-132	ea					
50	9797	CROSSARM, 3 3/4" x 4 3/4" x 10', penta treated in accordance with COA drawing. QPL #EL-396	ea					
51	9796	CROSSARM, 6 pin, 3 1/2" x 4 1/2" x 8' penta treated, in accordance with COA drawing. QPL #EL-83	ea					
52	22720	CUTOUT SHALL BE RATED 15KV, 100 AMP CONTINUOUS CURRENT, FOR OPERATION ON A 12.5KV SYSTEM. QPL #EL-8	EA					
53	22721	CUTOUT SHALL BE RATED 15KV, 100 AMP CONTINUOUS CURRENT, FOR OPERATION ON A 12.5KV SYSTEM. CUTOUT SHALL BE POLYMER WITH A 110KV BIL. CUTOUT SHALL HAVE AN INTERRUPTING RATING OF 10,000A SYMMETRICAL, 16,000A ASYMMETRICAL. CUTOUT SHALL BE DESIGNED TO BE INTERCHANGEABLE WITH OTHER MANUFACTURERS FUSEHOLDERS. FUSE TUBE LINER SHALL BE SYNTHETIC BONE FIBER MATERIAL, OR APPROVED EQUAL. CUTOUT SHALL UTILIZE A LINKBREAK LEVER TO MECHANICALLY BREAK FUSELINK ELEMENT. QPL #EL-8	ea					
54	18198	CROSSARM, TANGENT, HEAVY DUTY GRAY FIBERGLASS, 8 FOOT, BRACKET ASSEMBLY WITH 12 INCH BOLT HOLE SPACING WITH TOP HOLE SLOTTED, NO GUY ATTACHMENT, RATED FOR 8,000 LBS ULTIMATE LOAD FOR OUTSIDE POSITIONS/RATING FOR USING ALL FOUR POSITIONS WOULD BE 5,700 LBS. PER POSITION. 4-WIRE POSITIONS DRILLED AS PER AE DWG #1120-15. GRAY IN COLOR. ON QUALIFIED PRODUCTS LIST EL14249. THE CROSSARM SHALL HAVE A MAXIMUM ALLOWABLE DEFLECTION OF 0.53 INCHES PER 1000 POUNDS. QPL #EL14249	ea					
55	unused							
56	21883	Switch Air Alduti-Rupter Top Mount 15KV 900AMP. QPL #EL-1498	ea					
57	6813	DEADEND CLAMP, side loading, bolted with 2 U-bolts, 3/8" diameter minimum. All steel parts shall be galvanized. Body strength shall be 12,000 lbs. minimum. Sag eye strength shall be 8,000 lbs. minimum. Clamp size shall accommodate 795 MCM wire. QPL #EL-773	ea					
58	820	INSULATOR, deadend/suspension, polymer type, 15 kV. Distribution Class with Tongue and clevis end fittings. QPL #EL-1413	ea					
59	6611	INSULATOR, Guy Strain 5/8 in 3/4 in fg rod 21000 LB 8 ft. QPL #EL-1084	ea					
60	6553	INSULATOR, Pin TY 795 MCM Radio Noise Free 12.5 KV. QPL #EL-48	ea					
61	1278	PIN insulator, f-neck, 5" above arm, 1-1/2" long shank by 5/8" dia., 1" nylon threads, with lock washer and nut. QPL #EL-1488	ea					
62	1279	PIN insulator, 5" above arm, 5-3/4" long shank by 5/8" dia., 1" inch nylon threads only, with square washer and nut. QPL #EL-1488	ea					

NEW ITEM	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
63	1280	PIN, insulator, pole top, fiberglass, 1 in threads, rod is 1-1/2 in diameter x 18 in long, 8 in bolt hole spacing, minimum ultimate strength ratings of 2500 lbs vertical, 1200 lbs longitudinal, 1200 lbs transverse. QPL #EL-1489	ea					
64	1282	PIN, insulator, pole top, 18 in, 1 in threaded nylon head, 3 mounting holes to accommodate 5/8 in hardware, 5 in bolt hole spacing bottom to middle, 8 in bolt hole spacing bottom to top, hot dipped galvanized. QPL #EL-1490	ea					
64.1	1292	SPLICE, Pre-Molded, with Cold Shrink Jacket, Insulation Diameter Range .637-.900 (1/0 AWG) Aluminum, 15KV, Kit Supplied with Compression Connector. QPL# EL-1494.	ea					
65	15993	SWITCH, Disconnect, 900 Amp 15 kV with Polymer Insulator. QPL #EL-784	ea					
66	unused							
66.1	5536	TERMINAL, Bushing Plug, 8.3/14.4 KV for transformer bushing well, load break. QPL #EL-942.	ea					
67	5483	TIE, preformed, double pin, # 795 all aluminum (arbutis). QPL EL-209	ea					
68	880	TIE, preformed, secondary 4/0 ACSR. QPL #EL-190	ea					
69	4537	Wire, ACSR Bare Strd 1/0, (6/1) "Raven". QPL #EL-669	ft					
70	4530	Wire, Aluminum, 795 MCM Hard drawn "Arbutus" Lg Reel 10400/ft. QPL #EL-10	Lg reel/ft					
71	1458	Wire, Aluminum, 795 MCM Hard drawn "Arbutus" QPL #EL-10	Sm reel/ft					
72	851	Wire, 4/0 AWG 7 STRD AAC Alum 7000/FT 7-strand, bare, hard drawn, code name OXLIP. Max Flange Measurement 50" and max outside to outside measurement 32". QPL #EL-1423.	ft					
73	unused							
74	1415	Wire, Guy, 3/8", Extra High Strength, (250 ft coil) QPL#EL-689	ft					
75	889	Wire, Guy, 7/16" extra high strength, 7 Stranded 250 ft.Coil. QPL#689	ft					
76	19509	XFMR DIST 1PH POLE 25 KVA 277/480 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
77	19510	XFMR DIST 1PH POLE 50 KVA 277/480 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
78	19511	XFMR DIST 1PH POLE 75 KVA 277/480 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
79	19512	XFMR DIST 1PH POLE 100 KVA 277/480 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
80	19513	XFMR DIST 1PH POLE 167 KVA 277/480 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
81	19514	XFMR DIST 1PH POLE 10 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
82	19515	XFMR DIST 1PH POLE 25 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
83	19516	XFMR DIST 1PH POLE 50 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
84	19517	XFMR DIST 1PH POLE 75 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
85	19518	XFMR DIST 1PH POLE 100 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
86	19519	XFMR DIST 1PH POLE 167 KVA 120/240 2 BUSH W/ARRESTER (DOE). SPEC 1579 LATEST REVISION.	ea					
87	19520	XFMR DIST 25KVA 7.2KV 1PH PAD MT 120/240V (DOE). SPEC E-1581 LATEST REVISION.	ea					
88	19521	XFMR DIST 50KVA 7.2KV 1PH PAD MT 120/240V (DOE) SPEC E-1581 LATEST REVISION.	ea					
89	19522	XFMR DIST 75KVA 7.2KV 1PH PAD MT 120/240V (DOE). SPEC E-1581 LATEST REVISION	ea					
90	19523	XFMR DIST 100KVA 7.2KV 1PH PAD MT 120/240V (DOE). SPEC E-1581 LATEST REVISION.	ea					
91	19524	XFMR DIST 1 PH PAD MT 167 KVA 120/240V (DOE). SPEC E-1581 LATEST REVISION.	ea					
92	19525	XFMR DIST 1 PH PAD MT 250 KVA 120/240V (DOE). SPEC E-1581 LATEST REVISION.	ea					

NEW ITEM	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
MONTHLY STOCK LIST ITEMS	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
1	4727	SPACER BUS BAR COPPER 1-1/4 DIA 2 IN LENGTH	ea					
2	4728	SPACER BUS BAR COPPER 1-1/4 DIA 2-3/8"	ea					
13	6506	ANCHOR, steel disk with a minimum thickness of .187" disk, 24" diameter, helix to accept 1" anchor rod. Disk shall be mastic asphalt coated to inhibit corrosion.	ea					
15	643	ANCHOR, Triple 8-10-12 inch helix, screw type, galvanized, 1-1/2 inch square shaft, 7,000 FT LBS installation torque, 64 inch total length, galvanized	ea					
16	656	ADAPTER, anchor, triple eye, 1-3/4 inch square shaft, 10,000 FT LBS installation torque, 18 inch total length, galvanized	ea					
17	655	EXTENSION, anchor, 1-3/4 inch square shaft, 10,000 FT LBS, installation torque, 37 inch total length, galvanized	ea					
120	6828	CLAMP, Parallel groove, aluminum body, for the 4/0 (6/1) TO 1/0 (6/1) ACSR main to 4/0 (6/1) ACSR tap, steel hardware, 2 bolts.	ea					
161	5511	CONE, Stress Relief, Precast, for #2 Copper and 1/0 Aluminum, 220 Mil Polyethylene Insulation, URD, 15 KV, Cable	ea					
165	5669	CONNECTOR, aluminum, vise type, 1-bolt, 795 AA to 336 ACSR, each connector to be prefilled with corrosion inhibitor.	ea					
166	5670	CONNECTOR, aluminum, vise type, 2-bolt extended range, 795 AA to 795 AA, each connector shall be prefilled with corrosion inhibitor.	ea					
173	5534	CONNECTOR, compression, Crimpit, #4 Alum to #4 Alum	ea					
200	1410	CONNECTOR, Insulation Piercing, Main 1/0 - #8, Tap #2 - #10, 600V Rating, Insulated Tightening Bolt with Shear Head, Shall Withstand 6000 Volts Under 1 Foot of Water for 1 Minute with No Flashover. Teeth of Connector Shall Be Encased in Grease Filled Rubber Grommet. Connector Shall have a Current Rating of 190 Amps for Copper Conductor and 150 Amps for Aluminum Conductor. Shall Meet ANSI C119.4 Requirements.	ea					
201	1412	CONNECTOR, Insulation Piercing, Main 4/0 - #2, Tap 4/0 - #4, 600V Rating, Insulated Tightening Bolt with Shear Head, Shall Withstand 6000 Volts Under 1 Foot of Water for 1 Minute with No Flashover. Teeth of Connector Shall Be Encased in Grease Filled Rubber Grommet. Connector Shall Have Rating of 405 Amps for Copper Conductor and 315 Amps for Aluminum Conductor. Shall Meet ANSI C119.4 Requirements.	ea					
205	4715	CONNECTOR, bronze, tinned, URD 6 tap, #2 to 250 MCM IN 243 configuration, including insulator cover.	ea					
246	7414	COVER, connectors for 6" tap URD #2 to 250 MCM	ea					
263	6690	DEADEND, Formed Wire, #6A Copperweld, Diameter Range in inches from 0.226 to 0.236, holding strength 5000 LBS, color code may vary.	ea					
273	15537	Fuse link fit all 1/3 amp type X	ea					
294	5680	FUSE Link NEMA standard type 200 (N) (Fit all), 10 amp inclusive. On Qualified Products List EL-70.	ea					
295	1092	FUSE link Kearney type 200 (N) (FIT ALL) 125 AMP 15 KV	ea					
296	18020	FUSE link, 100AMP, type KS	ea					
297	UNUSED							
437	6527	ROD, anchor, triple eye, threaded, 1" x 10'. Rod shall be hot dipped galvanized and thoroughly coated with mastic asphalt. Rod shall be protected by a plastic pipe, which is resistant to cuts and abrasions. Heat shrink tubing shall be used just below the triple eye to form a moisture barrier between the plastic pipe and the anchor rod. Metal portions of the rod shall be completely isolated from surrounding environment.	ea					
455	7287	SPLICE kit, cold shrink, for 35KV, 350 MCM TO 500 MCM, copper.	ea					
510	unused							

NEW ITEM	CITY STOCK #	DESCRIPTION	UNIT	QTY On Hand	QTY On order	EDD	Firm Date Y/N	
519	15174	TAPE, glass cloth, electrical 1/2" X 66' X .007" roll.	ea					
540	5637	TERMINAL, 2-hole compression for 1000 KCMIL compact copper conductor. NEMA 2-hole pad with 9/16" holes, tinned copper tapered for high voltage application.	ea					
608	4523	WIRE, bare, copper, MHD, solid #6, packaged in 25 lb hand coils or 25 lb reels, approx. 315 FT.	ea					
609-654	unused							
655	unused							
656	unused							
657	unused							
658	unused							
659	unused							
660	unused							
661	4539	WIRE 795 MCM ACSR (26/7) DRAKE AS PER SPEC E-0814. MATCHED SETS. 10,400FT, CONDUCTOR LENGTH FOR EACH REEL SHALL BE WITHIN +/- 100 FEET. RETURNABLE METAL REEL WOOD LAGGED, TAGGED. <u>AUSTIN ENERGY WILL PURCHASE FROM ONE SUPPLIER A MATCHED SET OF REELS OF THIS WIRE TO MEET 100% OF THE TOTAL LINEAR FOOTAGE NEEDED FOR EACH CONSTRUCTION PROJECT. EACH PURCHASE WILL BE AWARDED TO THE LOWEST BIDDER THAT HAS IN STOCK A MATCHED SET OF REELS WITH SUFFICIENT QUANTITY TO MEET THE TOTAL LINEAR FOOTAGE QUANTITY REQUESTED BY AUSTIN ENERGY. Matched Set is defined as wire manufactured from the same production run.</u> <u>PURCHASE SPECIFICATION E-0814</u> APPROVED BRANDS: SPEC E-0814 QPL EL-1008 (DRAKE (26/7)) ALCAN CABLE ALCATEL ALCOACONDUCT BICC GENERAL ESSEX	FT					
662	19973	WIRE 795 MCM ACSS (26/7) DRAKE AS PER SPEC E-1657. MATCHED SETS. 10,400FT, CONDUCTOR LENGTH FOR EACH REEL SHALL BE WITHIN +/- 100 FEET. RETURNABLE METAL REEL WOOD LAGGED TAGGED. <u>AUSTIN ENERGY WILL PURCHASE FROM ONE SUPPLIER A MATCHED SET OF REELS OF THIS WIRE TO MEET 100% OF THE TOTAL LINEAR FOOTAGE NEEDED FOR EACH CONSTRUCTION PROJECT. EACH PURCHASE WILL BE AWARDED TO THE LOWEST BIDDER THAT HAS IN STOCK A MATCHED SET OF REELS WITH SUFFICIENT QUANTITY TO MEET THE TOTAL LINEAR FOOTAGE QUANTITY REQUESTED BY AUSTIN ENERGY. Matched Set is defined as wire manufactured from the same production run.</u> <u>PURCHASE SPECIFICATION E-1657</u> APPROVED BRANDS: SPEC E-1657 ALCAN CABLE (DRAKE (26/7)) BLE (DRAKE (26/7)) SOUTHWIRE (DRAKE (26/7))	ea					

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
PURCHASE SPECIFICATION FOR
TRANSFORMER, SINGLE-PHASE OVERHEAD-TYPE DISTRIBUTION
(3 kVA through 167 kVA)**

1.0 SCOPE AND CLASSIFICATION

1.1 Scope

The City of Austin Electric Utility Department, hereinafter referred to as Austin Energy, requires a qualified Contractor, to provide, single phase, 60 hertz, dual HV bushings with tank-mounted surge arrester, mineral oil -filled, conventional distribution transformers rated 3 kVA through 167 kVA.

1.2 Classification

1.2.1 No deviation from these specifications on the part of the Contractor shall be allowed. Any item supplied under these specifications which is not in complete compliance with these specifications will not be accepted and will be returned to the Manufacturer.

1.2.2 All Manufacturers furnishing transformers under these specifications shall have at least ten (10) years experience in the manufacture and sale of distribution transformers.

2.0 APPLICABLE SPECIFICATIONS

All Characteristics, definitions and terminology, except specifically covered in this specification shall be in accordance with the latest revision of IEEE C57.12.20, C57.12.31 and DOE CFR Title 10, Volume 3, Chapter II, Subchapter D, Part 431, Subpart K.

3.0 FUNCTIONAL REQUIREMENTS

3.1 Voltage and kVA Ratings

The voltage ratings shall be in accordance with the table in Attachment I.

3.2 Maximum Guaranteed Transformer Losses

The single phase distribution transformer maximum guaranteed losses (both No Load and Load Loss) shall be in accordance with Attachment II. All units, exceeding the maximum guaranteed losses will be rejected. There is no additional tolerance allowed on these values.

3.3 High Voltage (HV) Taps

Manufacturer shall **not** provide taps for the transformers described herein.

3.4 High Voltage Bushings and Terminals

3.4.1 The High Voltage Terminals shall be in accordance with IEEE C57.12.20.

3.4.2 High voltage bushing shall be in accordance with IEEE C57.12.20, IEEE C57.19.00 and IEEE C57.19.01.

3.5 Low Voltage (LV) Bushings and Terminals

3.5.1 The low-voltage bushings and terminals shall be 2-hole spades for 3 kVA - 15 kVA transformers. 25 kVA – 167 kVA transformers shall have 4-hole spades. All secondary bushings shall have captive, compression limited, fully shielded conductor and flange seals. Bushings shall be certified to withstand the following cantilever loading without leaking. The

bushings for the pole mounted transformers shall be Central Moloney Speedmount Series Bushings as required by the cantilever withstand rating table shown below. Terminal designation and markings shall be in accordance with IEEE C57.12.70.

	SECONDARY VOLTAGE		
kVA	120/240	240/480	277
10 - 50	100 FT LBS	100 FT LBS	100 FT LBS
75	300 FT LBS	100 FT LBS	100 FT LBS
100	300 FT LBS	100 FT LBS	100 FT LBS
167	300 FT LBS	300 FT LBS	300 FT LBS
250	400 FT LBS	300 FT LBS	400 FT LBS
333	400 FT LBS	300 FT LBS	400 FT LBS
500	400 FT LBS	400 FT LBS	400 FT LBS

3.5.2 The terminals shall be finished on both sides to enable a complete connection to either side.

3.6 CORE AND COIL

- 3.6.1** The transformer coils shall be designed to maintain their nameplate kVA rating throughout the temperature range. The continuous kVA ratings shall be based on an average winding temperature rise by resistance of 65°C as per IEEE C57.12.00.
- 3.6.2** All materials used shall be of the 65°C (85° C Hot Spot) Class and be thoroughly tested for compatibility with all transformer components.
- 3.6.3** Oil ducts shall be strong enough to withstand full short circuit forces.
- 3.6.4** The windings shall be a mechanically rigid assembly to resist axial and radial short circuit forces.
- 3.6.5** The primary coil shall be wound in such a manner, that when properly cured, will have an effective bond both turn to turn and layer to layer.
- 3.6.6** The primary coil shall be wound with continuous conductor without splices, joints or welds inside the windings.
- 3.6.7** High Voltage (HV) leads shall be trained and appropriately insulated to avoid dielectric breakdown between adjacent cables. Spacers, permanently held in place, shall be used to prevent a phase-to-ground short.
- 3.6.8** The secondary coils shall be wound with a rectangular or strip conductor. Each secondary coil shall be wound with a continuous conductor without splices, joints or welds inside the windings.
- 3.6.9** LV bushing leads shall be cold or thermally welded, where joined to the winding material
- 3.6.10** Aluminum low voltage leads shall be connected to their bushings, with hardened aluminum connectors which have been cold or thermally welded to the leads.

- 3.6.11** The core and coil assembly shall be rigidly held together as a unit with a core clamp whose design shall maintain reasonable pressure on the assembly throughout the life of the unit.

3.7 Tank

3.7.1 Leak Resistant

The transformer tank shall be leak resistant throughout the operational life of the transformer.

3.7.2 Covers

The transformer cover shall be insulated. The transformer shall have removable cover with nitrile rubber gaskets. The cover, when secured in place, shall prevent any moisture from entering the tank.

3.7.3 Pressure

The transformer tank and cover shall be designed to withstand pressure in accordance with IEEE C57.12.20.

3.7.4 Pressure Relief Valve

All transformers shall be equipped with a resettable device (which can be reset by trained personnel only) which detects and provides external indication of internal transformer faults, and also incorporates pressure relief functionality. The approved device is manufactured by IFD Corporation part number IFD-ORCA-10PSI-aA, or approved equal.

3.7.5 Hand Holes

The transformers shall not have hand holes.

3.7.6 Support Lugs (Hangers)

All transformers shall have support lugs for one (1) position mounting. The support lugs shall be in accordance with IEEE C57.12.20, Section 7.5.2 (Figure 1 and Figure 11).

3.7.7 Grounding

All transformers shall have two tank ground provisions as per IEEE C57.12.20, section 7.5.4.1 figure 7. As shown in figure 7, the two tank ground provisions shall be located under the low voltage bushings.

In addition to the two tank ground provisions, all transformer sizes shall have a low voltage ground provision as shown in IEEE C57.12.20, section 7.5.4.4 figure 7.

Transformers with three LV bushings shall be externally grounded to the tank with a ground strap of sufficient length to attach to the adjacent bushings.

Transformers with two LV bushings shall have a grounding strap attached from the X2 bushing to a grounding lug on the tank centered between X1 and X2.

Transformers with four LV bushings shall have a grounding strap attached from the X2 bushing to a grounding lug on the tank centered between the X2 and X3.

3.7.8 Labels

The Contractor shall place all labels required by Austin Energy Distribution Construction Standard #1000-17, and shown in Attachments V and VI, on the tank of each transformer. This includes the "SIZE kVA" and the "NO PCBs" labels.

3.8 Arresters

- 3.8.1** An arrester shall be mounted on the transformer adjacent to the H1 bushing. The arrester shall be connected from the top of the arrester the H1 transformer bushing. The arrester wire shall be 24 inches long; #6 compressed soft stranded copper transformer riser wire, polyethylene covered. A single hole tin plated compression connector shall be utilized to connect the wire on both ends that connects the H1 bushing to the arrester. The connection from the bottom of the arrester shall be solid copper strap rated for 10KA and bolted to the bottom of the transformer tank. All connections to the lugs, bushing and arrester shall be properly installed as per manufacturer instructions .
- 3.8.2** The arrester supplied shall have a rating of 10 kV, 8.4 kV MCOV, polymer, metal- oxide type, with wire nut and wire clamp on top terminal. The transformers shall be delivered with one of the arresters listed as shown in Attachment III.

4.0 WILDLIFE GUARDS

All transformers shall be delivered with the below listed animal guard properly installed on the HV bushing and arrestor: No other Wildlife Guards will be permitted.

- a. Howard Industries 0060-002163-405
- b. Cantex EZguard
- c. Central Molony 70380486

5.0 TRANSFORMER DIELECTRIC OIL

The dielectric fluid shall be a mineral oil(UL approved)

The dielectric fluid supplied with all transformers shall be in accordance with IEEE C57.147. The manufacturer shall provide batch test reports of the oil characteristics to the Austin Energy Standards Engineer.

The PCB content in the dielectric fluid shall be less than 1 ppm. The vendor shall provide written certification to the City that all dielectric fluid contains less than 1 ppm. The PCB content shall be shown on the nameplate of the transformer.

6.0 PAINT REQUIREMENTS

The unit shall be painted Light Gray Number 70, Munsell Notation 5BG 7.0/0.4 as described in IEEE C57.12.31.

7.0 DATA REQUIREMENTS

The Contractor shall provide for the Austin Energy Specifications Engineer, upon receiving a new shipment of transformers to Contractor's receiving site, including but not limited to the following information on each transformer:

7.1 The following items shall be provided for each transformer on every shipment. Data that is gathered from testing, shall be done so in accordance with IEEE C57.12.00, C57.12.80:

- 7.1.1** Serial Number
- 7.1.2** kVA Rating

- 7.1.3 Voltage Rating
 - 7.1.4 Core (Iron) losses at rated load, corrected to 85°C
 - 7.1.5 Copper losses at rated load, corrected to 85°C
 - 7.1.6 Percentage (%) impedance
 - 7.1.7 Exciting current at 100% rated voltage
 - 7.1.8 Percentage (%) regulation at 80% power factor and rated load
 - 7.1.9 Percentage (%) regulation at 100% power factor and rated load
 - 7.1.10 Gallons of biodegradable dielectric fluid used in the transformer
 - 7.1.11 Percentage (%) efficiency @ DOE efficiency criteria
- 7.2 The following items shall be provided in a yearly report with every first shipment of every year:
- 7.2.1 Drawings
 - 7.2.2 Total transformer weight, filled with oil and with arrester mounted
 - 7.2.3 Winding Material
 - 7.2.4 Core Material
 - 7.2.5 Conductor temperature at rated load (Design Test)
 - 7.2.6 Hot Spot temperature at rated load (Design Test)
 - 7.2.7 Top Oil temperature at rated load (Design Test)
 - 7.2.8 Thermal time constant (Design Test)
 - 7.2.9 Short-Circuit Withstand Capability (Design Test)
 - 7.2.10 Exciting current at 110% rated voltage (Design Test)
 - 7.2.11 Radio Influence Voltage (RIV) at 110% rated voltage (Design Test)

8.0 NAMEPLATE

The nameplate of the transformer shall be in accordance with IEEE C57.12.00, Table 10 (Nameplate A). The following additional information shall be provided on the nameplate:

- 8.1 Bar Code (Section 9.0)
- 8.2 PCB content (No-PCB or Less than 1PPM)

9.0 PERMANENT BAR CODE

The bar code shall be in accordance Attachment IV and with the latest revision of the following standards: ANSI X3.17, ANSI X3.182, ANSI X3.4, ANSI X3.49, and ANSI MH10.8M

10.0 AUSTIN ENERGY REQUIREMENTS

Austin Energy or its designated representative reserves the right to inspect and test transformers and materials in all stages of manufacturing and testing, at whatever location the manufacturing is performed, at no charge to Austin Energy.

11.0 OTHER REQUIREMENTS

11.1 All transformers supplied to Austin Energy shall meet or exceed the efficiency values in accordance with Department of Energy (2016 requirements) CFR Title 10, Volume 3, Chapter II, Subchapter D, Part 431, Subpart K 10 CFR 431 part III - Energy Conservation Efficiency Program for Certain Commercial and Industrial Equipment: Distribution Transformers Energy Conservation Standards table I.1431.196 (b) (1) & (2). Certified test data by serial number shall be provided with each transformer. Any transformer not complying with Department of Energy efficiency ratings shall be rejected. Certified test data by serial number shall be provided with each transformer.

11.2 A decal shall be placed on the transformer in accordance with Attachments V and VI. The decal shall be colored blue with white lettering. The decal shall be 6" tall by 6" wide and shall have the precise wording, in capital letters, "NO PCBS".

11.3 The Contractor shall provide the information in Section 7 (numerical values and/or pass/fail, as applicable) to the Austin Energy Distribution Standards Engineer:

Austin Energy Distribution
Standards Engineer 4411-B
Meinardus Drive
Austin, TX 78704

The test reports shall clearly state Austin Energy's specification number E-1579 and the type of transformer (Polemount).

11.4 If any defect in the equipment supplied, or failure to comply with this specification, shall appear within the period of 18 months from date of final acceptance of the equipment, the Contractor shall be notified, and the Contractor shall thereupon correct without delay and at Contractor's own expense the defect or failure of compliance by repairing the defective part or parts, by supplying a non-defective replacement or replacements, and/ or by correcting a deficient design as required. The Contractor shall further replace or repair all other similar equipment if such defect may reasonable be expected to develop or occur in said similar equipment. Removal and installation cost of the defective parts or equipment shall be at Contractors expense. In the event the Contractor shall correct any defect(s) or failure of compliance by repair, replacement, or correction as required above, then with respect to the equipment corrected, the aforesaid warranty period shall begin from the date of completion of installation of such correction and acceptable therefore, provided same is not unreasonably delayed by Austin Energy.

ATTACHMENT I

TRANSFORMER VOLTAGE RATINGS FOR SINGLE-PHASE DISTRIBUTION TRANSFORMER

HIGH VOLTAGE	HV BIL kV	LOW VOLTAGE	LV BIL kV
7200/12470Y	95	120/240	30
7200/12470Y	95	240/480	30
7200/12470Y	95	277	30

ATTACHMENT II

MAXIMUM GUARANTEED TRANSFORMER LOSSES

Transformer (kVA)	No-Load Losses (Watts)	Load Losses (Watts)	Impedance (%) @ 85° C
3	14	43	2.0
10	31	141	2.0
15	47	164	2.0
25	70	178	2.0
50	111	409	2.0
75	135	652	2.0
100	192	730	2.0
167	250	1295	3.0

ATTACHMENT III

TANK-MOUNTED SURGE ARRESTERS FOR SINGLE-PHASE DISTRIBUTION TRANSFORMER

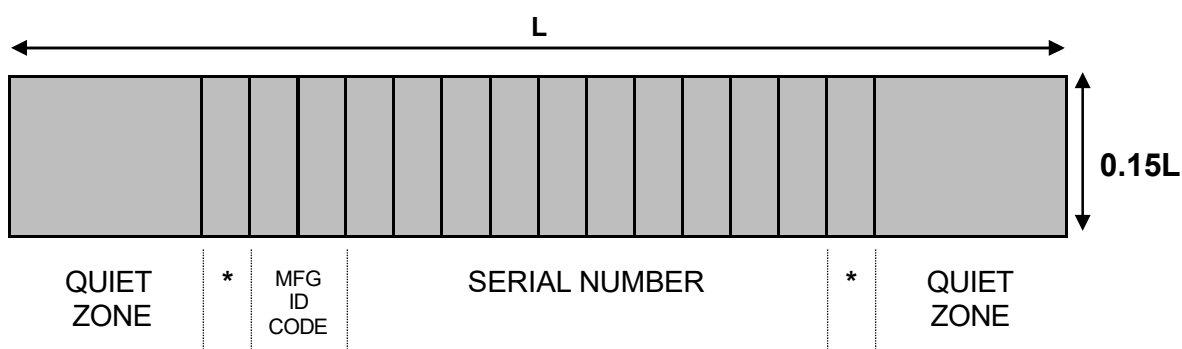
Nominal System Voltage (L-L) kV RMS	BIL* (kV)	Manufacturer	MCOV Rating** (kV)	Manufacturer Part Number
12.47	95	Cooper	8.4	UHS10050A1A1A1A
12.47	95	Ohio Brass	8.4	213709-7214
12.47	95	Maclean	8.4	ZHP010-0000000

* Minimum BIL of Surge Arrester Housing with Metal Oxide Blocks

** MCOV - Maximum Continuous Operating Voltage

ATTACHMENT IV BAR CODING AND MANUFACTURING CODES FOR SINGLE-PHASE DISTRIBUTION TRANSFORMER

1.0 ORIENTATION OF BAR CODE CHARACTERS



*Start/Stop Character

2.0 MANUFACTURER IDENTIFICATION CODES

The Manufacturer Identification Codes suggested below represent, in part, codes which are utilized for bar coding distribution transformers. The above listing does not represent an inclusive list of distribution transformer manufacturers.

AB	—	Asea Brown Boveri / Power Partners
CM	—	Central Moloney
CP	—	Cooper
GE	—	General Electric
HI	—	Howard Industries
KU	—	Kuhlman

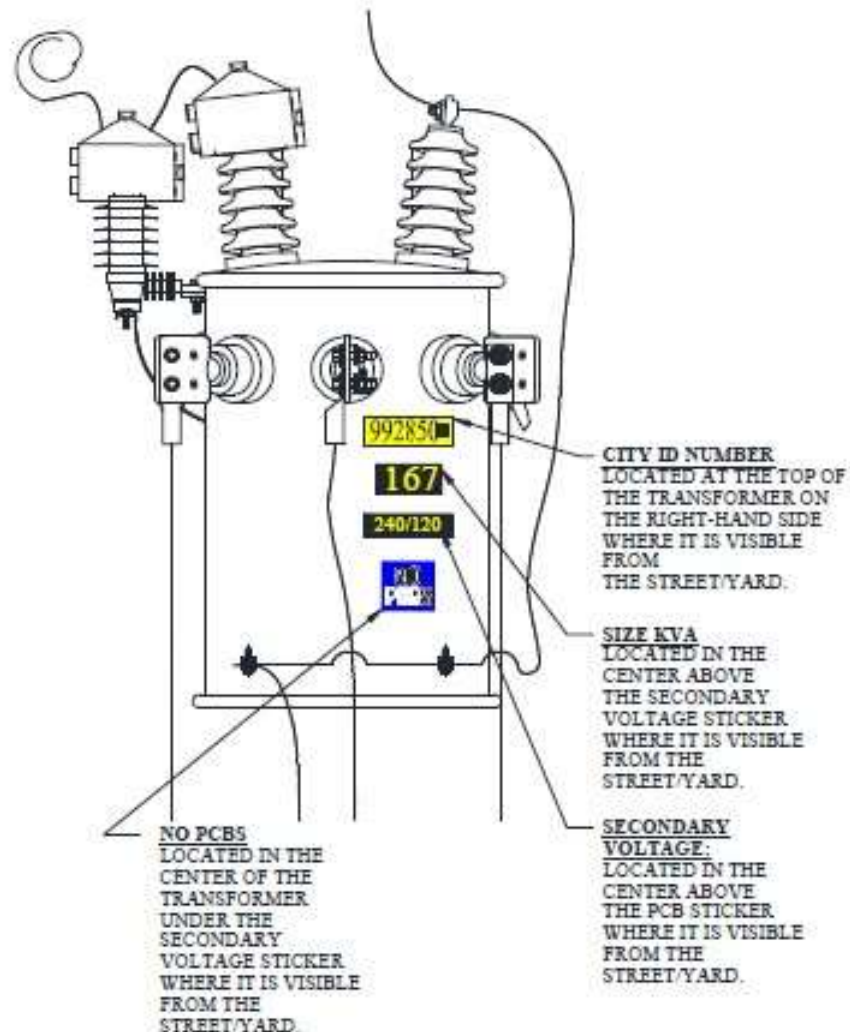
ATTACHMENT V

SIGNAGE FOR SINGLE-PHASE POLE-MOUNTED TRANSFORMERS (AUSTIN ENERGY DISTRIBUTION CONSTRUCTION STANDARD #1000-17)

 Rev: 05/05/15	POLE APPARATUS SIGNAGE SIGNAGE-POLE MOUNT 1PH	1000-17A Sheet 1 of 1 05/15/08
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1000-17A SIGNAGE-POLE MOUNT 1PH

TYPICAL SIGNAGE PLACEMENT FOR 3 PHASE TRANSFORMER



ATTACHMENT VI

TYPICAL EXTERNAL SIGNAGE MATERIAL REQUIREMENTS POLE-MOUNTED TRANSFORMERS

“NO PCBS” decal: 6 inch X 6 inch, blue. Base Film: 0.0035-inch cast polyvinyl chloride, with UV inhibitors as per MIL-M-22106A. Cyasorb UV-9 light absorber C14H1203. Gloss 80 UL 94 rated. Over lamination: 002PVF (polyvinylfluoride) tedlar UV screening film from E.I. Dupont. Cold-seal bonded. Adhesive: 0.002-inch permanent acrylic hi-tack, with high-temperature-resistant Elasticisors for adhesion at 40 deg. F. PSTC test method: #1 modified for a 15 minute dwell time, with 2 mils of adhesive, 56 oz/inch width rating. Ink: Silkscreen type 4, with automotive grade pigments and binders, 0.0004-inch thick ± 0.0001 , inch high pigment volume concentration total PVC 40-50 (copper phthalocyanines). Liner: 0.0007-inch ± 0.001 -inch Kraft, coated one side chemical resistant. Salt spray 240 hours 5%, at 100 degrees, with no blistering, color change, or other material degradation. No effect when immersed in diesel fuel, motor oil, anti-freeze, detergent 2 %, ammonium hydroxide (12% and 39%), kerosene, acetic acid, acetone and water. Service temperature range: -40 to +170 deg. F. Minimum lifetime exterior durability of 15 years from installation date with proper surface preparation.

Approved Manufacture or equal: Mitrographers, catalog number COA-001

“SIZE kVA” decal: width as required, 2 7/8 inches tall, Engineer Grade, adhesive reflective vinyl. Yellow numbers, black back ground.

“City ID Number” decal: width as required, 2 7/8 inches tall, Engineer Grade, adhesive reflective vinyl. black numbers, Yellow back ground.

“SECONDARY VOLTAGE” decal: width as required, 2 7/8 inches tall, Engineer Grade, adhesive reflective vinyl. Yellow numbers, black back ground. Sticker shall read “L-L Voltage / L-G Voltage”.

**CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT
PURCHASE SPECIFICATION
FOR
TRANSFORMER, SINGLE PHASE PADMOUNTED DISTRIBUTION
25 kVA THROUGH 250 kVA**

1.0 SCOPE

1.1 Scope

The City of Austin Electric Utility Department, hereinafter referred to as Austin Energy, requires a qualified Contractor, to provide, single phase, 60 hertz, mineral oil fluid, pad-mounted compartmental type, dead front transformers, rated 25 kVA through 250 kVA at 65° degrees C temperature rise above ambient.

1.2 Classification

1.2.1 No deviations from these specifications on the part of the manufacturer shall be allowed. Any item supplied under these specifications which is not in complete compliance with these specifications will not be accepted and will be returned to the Manufacturer.

1.2.2 All manufacturers furnishing transformers under these specifications shall have at least ten (10) years' experience in the manufacture and sale of distribution transformers.

2.0 APPLICABLE SPECIFICATIONS

All characteristics, definitions, and terminology, except that specifically covered in this specification, shall be in accordance with the latest revisions of the following standards:

2.1 IEEE C57.12.00

General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers

2.2 ANSI C57.12.25

Pad-Mounted, Compartmental-Type, Self-Cooled, Single-Phase Distribution Transformers with Separable Insulated High-Voltage Connectors; High Voltage, 34,500 GrdY/19,920 Volts, and Below; Low Voltage, 240/120 Volts; 167 kVA and Smaller Requirements

2.3 IEEE C57.12.28

Pad-Mounted Equipment - Enclosure Integrity; All characteristics, definitions, and terminology, except that specifically covered in this specification shall be in accordance with the latest revisions of the following standards: ANSI C57.12.00, NEMA TR-1

2.4 DOE CFR Title 10, Volume 3, Chapter II, Subchapter D, Part 431, Subpart K

Distribution Transformers

3.0 FUNCTIONAL REQUIREMENTS

3.1 Voltage and kVA Ratings

The voltage ratings shall be in accordance with the following table:

Transformer Rating	HV BIL (kV)	LOW VOLTAGE	LV BIL kV
12470GRDY/7200	95	240/120	30

3.2 Maximum Guaranteed Transformer Losses

The single phase distribution transformer maximum guaranteed losses (both No Load and Load Loss) shall be in accordance with Attachment I. All units, exceeding the maximum guaranteed losses will be rejected. There is no additional tolerance allowed on these values.

3.3 Temperature Rise Limits

All materials used shall be of the 65°C (85° C Hot Spot) Class and be thoroughly tested for compatibility with all transformer components. All transformers shall be type OA self-cooled.

3.4 Core and Coil

3.4.1 The transformer coils shall be designed to maintain their nameplate kVA rating throughout the temperature range. The continuous kVA ratings shall be based on an average winding temperature rise by resistance of 65°C as per IEEE C57.12.00.

3.4.2 Oil ducts shall be strong enough to withstand full short circuit forces.

3.4.3 The windings shall be a mechanically rigid assembly to resist axial and radial short circuit forces.

3.4.4 The primary coil shall be wound in such a manner, that when properly cured, will have an effective bond both turn to turn and layer to layer.

3.4.5 The primary coil shall be wound with continuous conductor without splices, joints or welds inside the windings.

3.4.6 High Voltage (HV) leads shall be trained and appropriately insulated to avoid dielectric breakdown between adjacent cables. Spacers, permanently held in place shall be used to prevent, a phase to ground short. The HV lead length shall be sufficient to allow for 3.0" withdrawal of the bushing well from the initial front plate position prior to disconnecting.

3.4.7 The secondary coils shall be wound with a rectangular or strip conductor. Each secondary coil shall be wound with a continuous conductor without splices, joints or welds inside the windings.

- 3.4.8 Low Voltage (LV) bushing leads shall be cold or thermally welded, where joined to the winding material.
- 3.4.9 Aluminum low voltage leads shall be connected to their bushings, with hardened aluminum connectors which have been cold or thermally welded to the leads.
- 3.4.10 The core and coil assembly shall be rigidly held together as a unit with a core clamp whose design shall maintain reasonable pressure on the assembly throughout the life of the unit.

3.5 Bushings

- 3.5.1 The high voltage bushing wells shall have removable studs and shall be Central Maloney, Part Number 70191972 or Austin Energy Engineer approved equal. Bushing wells shall be for a round removable stud bushing. The bushing arrangement shall be Type 1 as shown in Figure 1 of ANSI C57.12.25.
- 3.5.2 The low voltage section shall include three fully insulated secondary bushings for connecting the secondary windings for series operation. The secondary terminals shall be threaded copper studs, 5/8" x 11 for 25-75 kVA and 1" x 14 for 100-250 kVA transformers. The low voltage bushing arrangement shall be Type 1 as shown in Figure 1 of ANSI C57.12.25.
- 3.5.3 All HV and LV bushings shall be constructed and attached to the tank in such a manner that no loosening of the bushings shall result from normal installation practices.

3.6 Tank

- 3.6.1 A top-hinged door shall be provided. The door hinges shall be stainless steel. Flip top weather covers shall have at least 4 degrees of slope design to shed water. Water ponding on the flip top weather cover is not permitted.
- 3.6.2 An insulating barrier shall be provided between the high voltage and low voltage cable termination areas.
- 3.6.3 The primary/secondary connection side of the transformer shall have a minimum cabinet depth of 14 3/4" from the edge of the sill flange to the primary/secondary connection wall and minimum cabinet width of 30".
- 3.6.4 In addition to regular padlocking provisions, the door shall be secured by a recessed, captive, pentahead bolt.
- 3.6.5 The high voltage compartment door shall have a 19/64" hole drilled in the upper left-hand corner 10" from the top and 10" from the left-hand side. This hole shall have a field removable plug so that the transformer will accommodate a fault indicator light. The plug shall be designed so that if the plug is not removed the integrity of the enclosure still complies with IEEE C57.12.28 requirements.
- 3.6.6 Most oil restraining welds shall be horizontal and preferably robotically applied to limit weld oil leak and corrosion incidence.
- 3.6.7 The transformer tank shall be of rectangular shape and shall only have internal bracing for structural rigidity to prevent external corrosion, reduce external welding and improve paint coverage, with the exception of units with cooling radiators. External bracing is not allowed.

3.6.8 Enclosure Security

The enclosure security shall be as per IEEE C57.12.28.

3.6.9 Pressure Relief Valve

All transformers shall be equipped with a resettable device (which can be reset by trained personnel only) which detects and provides an external indication of internal transformer faults, and also incorporates pressure relief functionality. The approved device is manufactured by IFD Corporation part number IFD-ORCA-10PSI-aA or approved equal.

3.6.10 Tank grounding provisions shall be in accordance with ANSI C57.12.25.

3.6.11 Transformers shall have dimensions which allow them to fit appropriately on 60" x 60" concrete pad.

3.6.12 The Contractor shall place all labels required by Austin Energy Distribution Construction Standard #1000- 13, and shown in Attachments IV and V, on the cabinet doors of each transformer. This includes the "HIGH VOLTAGE SIGN," "SIZE kVA," "ONE-CALL SYSTEM" "CLEARANCE REQUIRED," and "NO PCBs" labels.

3.6.13 Paint Requirement

The transformer shall be painted with rust-resistant paint. The unit shall be painted Munsell Number 7GY 3.29/1.5 pad-mount green. The paint coating system shall be in compliance with IEEE C57.12.28. Coal Tar Epoxy coating or any tar based coating system, shall not be accepted.

3.6.14 Lifting Provisions

The transformer cabinet shall be manufactured with recessed welded nut and detachable bolt lifting provisions. The recessed welded nut and detachable bolt shall be sized to adequately support the weight of the transformer when being lifted safely. There shall be a minimum of two recessed welded bolt provisions, one for each side of the transformer. The lifting provisions shall be located such that the transformer can be lifted safely and effectively. Each detachable bolt shall come tightened into the recessed welded nut on the transformer cabinet.

4.0 TRANSFORMER DIELECTRIC OIL

The dielectric fluid shall be a mineral oil (UL approved)

The dielectric fluid supplied with all transformers shall be in accordance with IEEE C57.147. The manufacturer shall provide batch test reports of the oil characteristics to the Austin Energy Standards Engineer.

The PCB content in the dielectric fluid shall be less than 1 ppm. The vendor shall provide written certification to the City that all dielectric fluid contains less than 1 ppm. The PCB content shall be shown on the nameplate of the transformer.

5.0 PROTECTION

- 5.1** High voltage protection shall be a Bay-O-Net type draw out the fuse in a flapper valve holder. Fusing shall be dual sensing, or an approved equal, in series with an internal partial range current limiting fuse.
- 5.2** Bay-O-Net fuse shall be externally replaceable by simple hot stick withdrawal.
- 5.3** Transformers shall be provided with a removable drip shield to catch and hold oil lost during the removal of the Bay-O-Net. The drip shield shall keep oil off the high voltage terminating elbows. The shield shall have no sharp metallic corners and be designed for easy draining when desired.
- 5.4** Fusing shall be in accordance with Attachment II.

6.0 DATA REQUIREMENTS

The Contractor shall provide the Austin Energy Distribution Standards Engineer, upon receiving a new shipment of transformers to Contractor's receiving site, including but not limited to the following information on each transformer:

- 6.1** The following items shall be provided for each transformer on every shipment. Data that is gathered from testing, shall be done so in accordance with IEEE C57.12.00, C57.12.80:
 - 6.1.1** Serial Number
 - 6.1.2** kVA Rating
 - 6.1.3** Voltage Rating
 - 6.1.4** Core (Iron) losses at rated load, corrected to 85°C
 - 6.1.5** Copper losses at rated load corrected to 85°C
 - 6.1.6** Percentage (%) impedance
 - 6.1.7** Exciting current at 100% rated voltage
 - 6.1.8** Percentage (%) regulation at 80% power factor and rated load
 - 6.1.9** Exciting current at 100% rated voltage
 - 6.1.10** Gallons of natural ester dielectric fluid used in the transformer
 - 6.1.11** Percentage (%) efficiency @ DOE efficiency criteria

6.2 The following items shall be provided in a yearly report with every first shipment of every year:

- 6.2.1** Drawings
- 6.2.2** Total transformer weight, filled with oil and with arrester mounted
- 6.2.3** Winding Material
- 6.2.4** Core Material
- 6.2.5** Conductor temperature at rated load (Design Test)
- 6.2.6** Hot Spot temperature at rated load (Design Test)
- 6.2.7** Top Oil temperature at rated load (Design Test)
- 6.2.8** Thermal time constant (Design Test)
- 6.2.9** Short-Circuit Withstand Capability (Design Test)
- 6.2.10** Exciting current at 110% rated voltage (Design Test)
- 6.2.11** Radio Influence Voltage (RIV) at 110% rated voltage (Design Test)

7.0 NAMEPLATE

A stainless steel or anodized aluminum instruction nameplate shall be located at a convenient spot on the inside of the low voltage compartment and shall be readable with cables in place. The nameplate of the transformer shall be in accordance with IEEE C57.12.00, Table 10 (Nameplate A). The following additional information shall also be provided on the nameplate:

- 7.1** Bar Code (§ 8.0)
- 7.2** PCB content (No-PCB or Less than 1PPM)

8.0 PERMANENT BAR CODE

The bar code shall be in accordance Attachment III and with the latest revision of the following standards: ANSI X3.17, ANSI X3.182, ANSI X3.4, ANSI X3.49, and ANSI MH10.8M

9.0 AUSTIN ENERGY REQUIREMENTS

Austin Energy or its designated representative reserves the right to inspect and test transformers and materials in all stages of manufacturing and testing, at whatever location the manufacturing is performed at no charge to Austin Energy.

10.0 OTHER REQUIREMENTS

- 10.1** The Contractor shall provide the information in Section 6 (numerical values or pass/fail, as applicable) to the Austin Energy Distribution Standards Engineer:

Austin Energy Distribution
Standards Engineer 4411-B
Meinardus Drive
Austin, TX 78704

The test reports shall clearly state Austin Energy's specification number (E-1581) the Contractor is referencing and the type of transformer (Padmount).

- 10.2** Prior to delivery, the Contractor shall provide Austin Energy certified factory test reports for all transformers. These reports shall be sent to the Austin Energy Distribution Standards Engineer. Failure to provide these reports may result in the rejection of the shipment.
- 10.3** If any defect in the equipment supplied, or failure to comply with this specification, shall appear within the period of 18 months from date of final acceptance of the equipment, the Contractor shall be notified, and the Contractor shall thereupon correct without delay and at Contractor's own expense the defect or failure of compliance by repairing the defective part or parts, by supplying a non-defective replacement or replacements, and/ or by correcting a deficient design as required. The Contractor shall further replace or repair all other similar equipment if such defect may reasonably be expected to develop or occur in said similar equipment. Removal and installation cost of the defective parts or equipment shall be at Contractors expense. In the event the Contractor shall correct any defect(s) or failure of compliance by repair, replacement, or correction as required above, then with respect to the equipment corrected, the aforesaid warranty period shall begin from the date of completion of installation of such correction and acceptable, therefore, provided same is not unreasonably delayed by Austin Energy.
- 10.4** All transformers supplied to Austin Energy shall meet or exceed the efficiency values in accordance with Department of Energy (2016 requirements) CFR Title 10, Volume 3, Chapter II, Subchapter D, Part 431, Subpart K 10 CFR 431 part III - Energy Conservation Efficiency Program for Certain Commercial and Industrial Equipment: Distribution Transformers Energy Conservation Standards table I.1431.196 (b) (1) & (2). Certified test data by serial number shall be provided with each transformer. Any transformer not complying with Department of Energy efficiency ratings shall be rejected.
- 10.5** In addition to inspections and tests on incoming raw material, parts, sub-components, and sub-assemblies, the manufacturer shall have a finished product quality audit program to assure a well-designed, safe, reliable and durable finished product. Records shall be kept to determine the level of quality of products being manufactured and be made available to the Company upon request.

ATTACHMENT I

MAXIMUM GUARANTEED TRANSFORMER LOSSES

Transformer (kVA)	No-Load Losses (Watts)	Load Losses (Watts)	Impedance (%) @ 85° C
25	71	228	2.3
50	105	404	2.3
75	167	456	2.5
100	181	683	2.5
167	248	1234	3.0
250	453	1555	3.0

ATTACHMENT II

TRANSFORMER FUSING FOR SINGLE-PHASE DISTRIBUTION TRANSFORMER

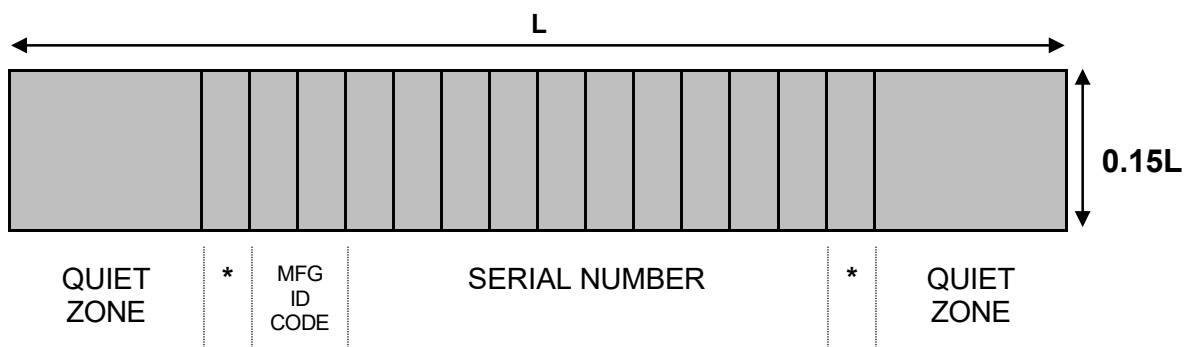
Transformer (kVA)	Bay-O-Net Fuse (Cooper)	Fuse Amp Rating	Partial C/L Fuse	
			Cooper	Hitech
25	4000358C05 (Dual Sensing)	8	3543040M61	HTDS232040
50	4000358C08 (Dual Sensing)	15	3543080M71	HTDS232080
75	4000358C10 (Dual Sensing)	25	3543065M61*	HTDS332125
100	4000358C10 (Dual Sensing)	25	3543080M71*	HTDS332150
167	4000358C12 (Dual Sensing)	50	3543080M71*	HTDS332150
250	4038361C03CB (High Amp Overload)	65	3543080M71*	HTDS332150

*Two fuses are required in parallel.

ATTACHMENT III

BAR CODING AND MANUFACTURING CODES FOR SINGLE-PHASE DISTRIBUTION TRANSFORMERS

1.0 ORIENTATION OF BAR CODE CHARACTERS



*Start/Stop Character


2.0 MANUFACTURER IDENTIFICATION CODES

The Manufacturer Identification Codes suggested below represent, in part, codes which are utilized for bar coding distribution transformers. The above listing does not represent an inclusive list of distribution transformer manufacturers.

AB	—	Asea Brown Boveri
CM	—	Central Maloney
CP	—	Cooper
GE	—	General Electric
HI	—	Howard Industries
KU	—	Kuhlman

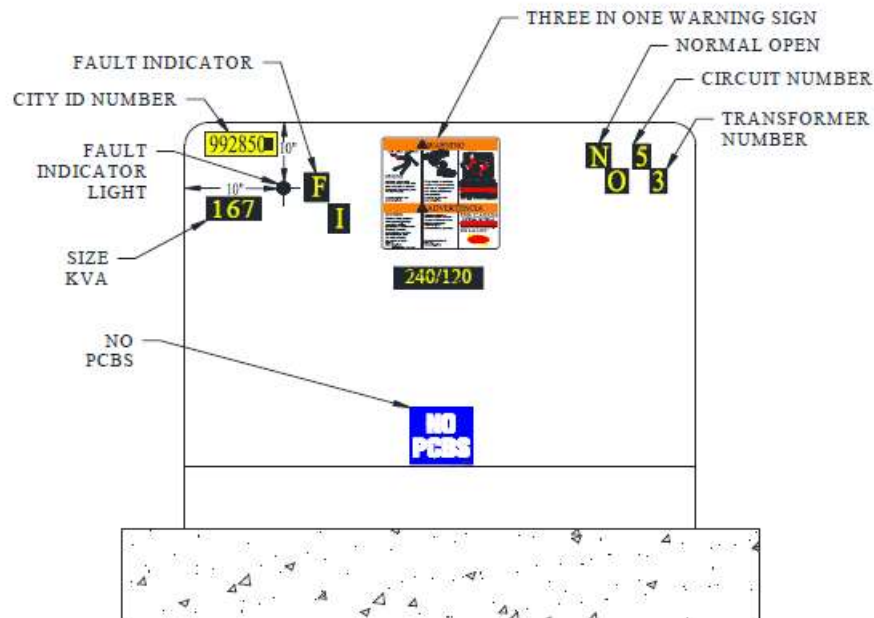
ATTACHMENT IV

SIGNAGE FOR SINGLE-PHASE PAD-MOUNTED TRANSFORMERS (AUSTIN ENERGY DIST. CONST. STANDARD #1000-13)

1000-13A	GENERAL INFORMATION	 Rev: 7/30/15
Sheet 1 of 1	ENGINEERING NOTES AND SIGNAGE	
05/15/06	SIGNAGE- PAD MOUNT 1PH	

1000-13A SIGNAGE-PAD MOUNT 1PH

TYPICAL SIGNAGE PLACEMENT FOR 1 PHASE TRANSFORMER



1 PHASE PAD MOUNTED
TRANSFORMER LID/DOOR SIDE

ATTACHMENT V

TYPICAL EXTERNAL SIGNAGE MATERIAL REQUIREMENTS OF SINGLE-PHASE PAD-MOUNTED TRANSFORMERS

“NO PCBS” decal: 6 inch X 6 inch, blue. Base Film: 0.0035-inch cast polyvinyl chloride, with UV inhibitors as per MIL-M-22106A. Cyasorb UV-9 light absorber C14H1203. Gloss 80 UL 94 rated. Over lamination: 002PVF (polyvinylfluoride) tedlar UV screening film from E.I. Dupont. Cold-seal bonded. Adhesive: 0.002-inch permanent acrylic hi-tack, with high-temperature-resistant Elasticisors for adhesion at 40 deg. F. PSTC test method: #1 modified for a 15 minute dwell time, with 2 mils of adhesive, 56 oz/inch width rating. Ink: Silkscreen type 4, with automotive grade pigments and binders, 0.0004-inch thick ± 0.0001 , inch high pigment volume concentration total PVC 40-50 (copper phthalocyanines). Liner: 0.0007-inch ± 0.001 -inch Kraft, coated one side chemical resistant. Salt spray 240 hours 5%, at 100 degrees, with no blistering, color change, or other material degradation. No effect when immersed in diesel fuel, motor oil, anti-freeze, detergent 2 %, ammonium hydroxide (12% and 39%), kerosene, acetic acid, acetone and water. Service temperature range: -40 to +170 deg. F. Minimum lifetime exterior durability of 15 years from installation date with proper surface preparation.
Approved Manufacture or equal: Mitrographers, catalog number COA-001

“SIZE kVA” decal: width as required, 2 7/8 inches tall, Engineer Grade, adhesive reflective vinyl. Yellow numbers, black background.

“SECONDARY VOLTAGE” decal: width as required, 2 7/8 inches tall, Engineer Grade, adhesive reflective vinyl, with yellow numbers, black background. Sticker shall read “L-L Voltage / L-G Voltage”.

“3 in 1” decal: Dimensions will be approximately 10” wide X 10.5” tall. Sign shall be worded as follows: WARNING To Report Problems Call (512) 322-9100 HIGH VOLTAGE Hazardous voltage inside. Can shock, burn or cause death. Keep out if open or unlocked, immediately call electric power and light company. ADVERTENCIA Para Reportar Problemas Llame al: (512) 322-9100 ALTA TENSION Contiene voltaje peligroso. Puede producir descarga o sacudida eléctrica, quemaduras o ausar muerte. Prohibida la entrada. si está abierto o sin llave, inmediatamente llame a la central eléctrica. WARNING To Report Problems Call: (512) 322-9100 Keep shrubs and structures at least 10 feet away from this side of equipment for safe utility maintenance and operation. ADVERTENCIA Para Reportar Problemas Llame al: (512) 322-9100 Mantenga arbustos y construcción por lo menos a 10 pies de distancia de este lado del equipo para seguridad en el mantenimiento y operación. ONE CALL SYSTEM of TEXAS 1-800-545-6005 CALL BEFORE YOU DIG IT’S THE LAW UNA LLAMADA SISTEMA de TEXAS 1-800-545-6005 LLAME ANTES DE EXCAVAR ES LA LEY.

Base film: .0035 cast polyvinylchloride with uv inhibitors mil-m-22106a. (cyasorb uv-9 light absorber c14h1203). Gloss 80 ul 94 rated. Overlamination: .002pvf (polyvinylfluoride). Tedlar uv screening film from e.i. dupont. Cold seal bonded. Adhesive .002 permanent acrylic hi-tack with high temperature resistant elasticisors for adhesion at 40 degrees f. Pstc test method: #1 modified for a 15 min dwell time with 2 mils of adhesive 56 oz/inch width rating. Ink: silkscreen type 4 with automotive grade pigments and binders .0004" thick dry +/- .0001" high pigment volume concentration total pvc 40-50 (copper phthalocyanines). Liner: .0007" +/- .001" kraft coated one side. Chemical resistance: salt spray 240 hours 5% at 100 degrees f if no blistering, color change, or other material degradation. No effect when immersed in diesel fuel, motor oil, anti-freeze, detergent 2%, ammonium hydroxide (12% and 39%), kerosene, acetic acid, acetone and water. Service temperature range: -40 to + 170 degrees f. Labels shall have a two year shelf life and a minimum lifetime exterior durability of 15 years from installation date with proper surface preparation. All stick on signs will have a written guarantee of no fading or peeling for 15 years or they will be replaced in the field free of charge.

Approved Manufacturer or equal: Electromark, part number AUS028-W-PT-BC4 Rev. 1.