

CODES, SYMBOLS

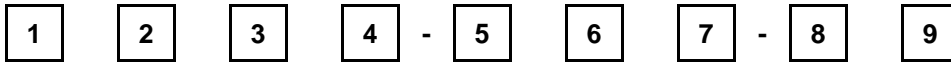
DRAWING NUMBER	SHT.	DRAWING TITLE	DWG REV.	BOM REV.
A-02-01	1	CODE FOR LINE IDENTIFICATION	0	-
A-02-01	2	CODE FOR LINE IDENTIFICATION	0	-
A-02-01	3	CODE FOR LINE IDENTIFICATION	0	-
A-02-01	4	CODE FOR LINE IDENTIFICATION	0	-
A-02-01	5	CODE FOR LINE IDENTIFICATION	A	-
A-02-01	6	CODE FOR LINE IDENTIFICATION	0	-
A-02-01	7	CODE FOR LINE IDENTIFICATION	A	-
A-02-01	8	CODE FOR LINE IDENTIFICATION	A	-
A-02-02	1	SYMBOLS	A	-
A-02-02	2	SYMBOLS	B	-
A-02-02	3	SYMBOLS	C	-
A-02-02	4	SYMBOLS	B	-
A-02-03	1	METRIC CONVERSION	0	-
A-02-03	2	METRIC CONVERSION	0	-
A-02-04	1	MISCELLANEOUS ABBREVIATIONS	0	-

SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. QS	INDEX	
L. MOEN	Q. SUN	CHKD.		
		2017-12-20		
DATE OF ISSUE: 2018-02-20		DRAWING NO: A-02-INDEX	SHEET 1 OF 1	REV. G

OVERHEAD PRIMARY LINE IDENTIFICATION

OVERHEAD PRIMARY LINES ARE DESCRIBED USING 9 BLOCKS. THESE BLOCKS ARE EXPLAINED BELOW.



BLOCK NO. 1

INDICATES THE POSITION OF THE GROUP OF PHASES. OMITTED IF DESCRIBING SINGLE PHASE CIRCUITS AND THE TOP CIRCUIT ON THE STRUCTURE FOR MULTIPLE CIRCUIT LINES.

BLOCK NO. 2

INDICATES THE NUMBER OF PHASES IN THE GROUP. OMITTED IF DESCRIBING SINGLE PHASE CIRCUITS.

BLOCK NO. 3

INDICATES THE PRESENCE OF NEUTRAL/SHIELD WIRES IN THE GROUP. OMITTED IF NO NEUTRAL/SHIELD WIRE PRESENT.

BLOCK NO. 4

INDICATES THE CONSTRUCTION CODE LETTER.

BLOCK NO. 5

INDICATES THE PHASE MULTIPLIER GIVING THE NUMBER OF PHASES IN THE GROUP, FOLLOWED BY AN 'x'. OMITTED FOR SINGLE PHASE CIRCUITS, OR IF ALL PHASES ARE IDENTICAL.

BLOCK NO. 6

INDICATES THE NUMBER OF CONDUCTORS PER PHASE IN THE GROUP. OMITTED IF ONLY ONE CONDUCTOR PER PHASE.

BLOCK NO. 7

INDICATES THE CONDUCTOR SIZE.

BLOCK NO. 8

INDICATES THE OPERATING VOLTAGE.

BLOCK NO. 9

INDICATES THE INSULATED VOLTAGE. OMITTED IF INSULATED VOLTAGE IS SAME AS OPERATING VOLTAGE.

BACK TO INDEX PAGE

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE 2007/04/16		DRAWING NO: A-02-01	SHEET 1 OF 8
			REV. 0

**APPLICATION OF LINE IDENTIFICATION CODE
FOR OVERHEAD PRIMARY LINES**

BLOCK NUMBER	2	4	7	8
DESCRIPTION	NUMBER OF PHASES.	TYPE OF CONSTRUCTION.	GAUGE NO. AND KIND OF CONDUCTOR OR CODE NAME IN THE CASE OF ACSR AND ALUMINUM.	VOLTAGE, IN kV, NORMALLY LINE. IF SINGLE PHASE Y, TO GROUND.
EXAMPLE	3	D	RAVEN	25
EXPLANATION OF EXAMPLE	3 PHASE WIRES	DELTA CONSTRUCTION TYPE	1/0 ALUMINUM CONDUCTOR, STEEL REINFORCED	25 kV, LINE TO LINE

3D – RAVEN – 25

OTHER EXAMPLES:

- V – 6HICON – 14.4 = SINGLE PHASE #6 HICON, VERTICAL CONSTRUCTION, 14.4 kV LINE TO GROUND.
- 3X – SPARROW – 25 = 3 PHASE SPARROW (#2 ACSR), ALL PHASE WIRES ON CROSSARM, 25 kV, LINE TO LINE.
- 3D – 2xRAVEN, PIGEON – 25 = 3 PHASE, TWO PHASES RAVEN (1/0 ACSR), ON PHASE PIGEON (3/0 ACSR), 25 kV, LINE TO LINE.

BACK TO INDEX PAGE

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE 2007/04/16		DRAWING NO: A-02-01	SHEET 2 OF 8 REV. 0

OVERHEAD SECONDARY LINE IDENTIFICATION

OVERHEAD SECONDARY LINES ARE DESCRIBED USING 8 BLOCKS. THESE BLOCKS ARE EXPLAINED BELOW.



BLOCK NO. 1

INDICATES IF THE CIRCUIT TYPE IS STREET LIGHT, NEUTRAL OR SECONDARY. OMITTED IF CIRCUIT TYPE IS SECONDARY.

BLOCK NO. 2

INDICATES THE CONSTRUCTION CODE LETTER. OMITTED IF CONSTRUCTION CODE IS 1R, NB, QX, DX, OR TX.

BLOCK NO. 3

INDICATES THE NUMBER OF RUNS ON CONDUCTORS PER PHASE. OMITTED IF RUNS IS '1'.

BLOCK NO. 4

INDICATES THE NUMBER OF PHASES IN THE GROUP, FOLLOWED BY AN 'x'. OMITTED IF CIRCUIT TYPE IS NEUTRAL, SINGLE PHASE OR CONSTRUCTION STYLE IS QX, DX OR TX.

BLOCK NO. 5

INDICATES THE PHASE CONDUCTOR SIZE.

BLOCK NO. 6

INDICATES THE NEUTRAL CONDUCTOR SIZE. OMITTED IF CONSTRUCTION CODE IS QX, DX, OR TX.

BLOCK NO. 7

INDICATES CONSTRUCTION STYLE FOR TYPES QX, DX, OR TX. OMITTED FOR ALL OTHER CONSTRUCTION STYLES.

BLOCK NO. 8

INDICATES THE SECONDARY OPERATING VOLTAGE.

BLOCK NO. 9

INDICATES THE INSULATED VOLTAGE. OMITTED IF INSULATED VOLTAGE IS SAME AS OPERATING VOLTAGE.

BACK TO INDEX PAGE

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE 2007/04/16		DRAWING NO: A-02-01	SHEET 3 OF 8
			REV. 0

**APPLICATION OF LINE IDENTIFICATION CODE
FOR OVERHEAD SECONDARY LINES**

BLOCK NUMBER	3	5	8
DESCRIPTION	NUMBER OF RUNS.	GAUGE NO. OF CONDUCTOR.	CONSTRUCTION STYLE
EXAMPLE	2x	1/0	QX
EXPLANATION OF EXAMPLE	2 RUNS OF 3 PHASE ON SINGLE PIN RACK	1/0 PHASE CONDUCTOR	QUADRAPLEX CONSTRUCTION

2x(1/0) QX

OTHER EXAMPLES:

- N – 1/0** = **1/0 SECONDARY NEUTRAL**
- #2 TX – 480** = **#2 TRIPLEX SECONDARY, 480 V.**
- 3R2x2/0 + 2/0** = **SECONDARY OF TWO 2/0 AND A 2/0 NEUTRAL ON A 3 PIN RACK.**
- X3xRAVEN** = **3 PHASE RAVEN ON A CROSSARM.**
- ST – 1/0 QX** = **1/0 QUADRAPLEX FOR STREET LIGHT CONTROL CIRCUIT.**

BACK TO INDEX PAGE

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	CODE FOR LINE IDENTIFICATION	
CHKD.		DATE		
DATE		DATE		
DATE OF ISSUE 2007/04/16		DRAWING NO: A-02-01	SHEET 4 OF 8	REV. 0

CONSTRUCTION CODE LETTER DEFINITIONS

- V - INDICATES VERTICAL CONSTRUCTION. IN GENERAL, V REFERS TO SINGLE PHASE LINES WITH THE PHASE WIRE ON A SKY PIN.
- X - INDICATES CROSSARM CONSTRUCTION WITH ALL PHASE WIRES ON THE CROSSARM
- XS - SAME AS 'X', ONLY ON STEEL POLE.
- D - DELTA, INDICATES WOOD CROSSARM CONSTRUCTION WITH THE OUTSIDE WIRES ON THE CROSSARM AND THE CENTER WIRE ON A SKY PIN
- A - INDICATES ALLEY ARM CONSTRUCTION
- 1R, NB - INDICATES SINGLE WIRE CONSTRUCTION OF A ONE PIN RACK OR UNIMOUNT. MOSTLY URBAN USAGE
- UG - LINE IS UNDERGROUND
- H - H-FRAME STRUCTURE CONSTRUCTION
- HS - H-FRAME (HIGH STRUNG) STRUCTURE CONSTRUCTION
- T - TOWER STEEL LATTICE STRUCTURE CONSTRUCTION
- W - WISHBONE STRUCTURE CONSTRUCTION
- G - GULFPORT STRUCTURE (2 POLE WOOD) CONSTRUCTION
- Y - Y STRUCTURE CONSTRUCTION
- S - INDICATES STEEL TRI-ARM CONSTRUCTION
- \$ - INDICATES MODIFIED STEEL TRI-ARM CONSTRUCTION, WHERE A CROSSARM HAS BEEN ADDED AND THE TWO OUTSIDE WIRES FASTENED TO IT, THE CENTER WIRE REMAINING ON THE TOP TRI-ARM BRACKET
- SO - INDICATES STAND OFF INSULATOR CONSTRUCTION
- LA - INDICATES LAMINATED ARM CONSTRUCTION
- SC - SIDE CROSSARM, USED FOR URBAN SECONDARY

BACK TO INDEX PAGE

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APPROVAL L. MOEN	DESIGN CHK P.COSTA-M.	DRN. PCM CHKD.	CODE FOR LINE IDENTIFICATION
		2018-01-15	
DATE OF ISSUE: 2018-02-20		DRAWING NO: A-02-01	SHEET 5 of 8 REV. A

AUXILIARY PRIMARY SYMBOLS

- U - FOR UNDER, WHEN PLACED AHEAD OF ALL OTHER SYMBOLS IN A DESIGNATION INDICATES THAT THE CIRCUIT IS STRUNG UNDER ANOTHER CIRCUIT ON THE SAME POLE.
- R - FOR RIGHT, IN CONJUNCTION WITH DOUBLE CIRCUITS INDICATES THE RIGHT-HAND CIRCUIT WHEN LOOKING DOWN THE LINE WITH THE BACK TO THE NORMAL SOURCE OF SUPPLY.
- L - FOR LEFT, AS 'R' ABOVE, BUT REFERS TO LEFT HAND CIRCUIT.

CONDUCTOR DESCRIPTION ABBREVIATIONS





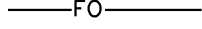
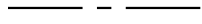
- HICON - HICON H.S.C. 130 3 STRAND STEEL
- (W)HICON - HICON "WIRE WRAPPED"
- CU - SOLID COPPER
- STR. CU - STRANDED COPPER
- CW - COPPERWELD OR COPPERWELD COPPER, DEPENDING ON GAUGE NO.
- ACSR - ALUMINUM CONDUCTOR STEEL REINFORCED
- ACSR-SB - SMOOTH BODY ACSR
- CCSR - COPPER COATED STEEL REINFORCED
- ALW - ALLUMOWELD
- AL - ALL ALUMINUM
- DX - DUPLEX SECONDARY CONDUCTOR
- TX - TRIPLEX SECONDARY CONDUCTOR
- QX - QUADRUPLEX SECONDARY CONDUCTOR

BACK TO INDEX PAGE

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE 2007/04/16		DRAWING NO: A-02-01	SHEET 6 OF 8
			REV. 0

KEY TO LINE IDENTIFICATION

-  - O/H PRIMARY - LL=>72KV,
-  - O/H PRIMARY - LL=25KV, > 1 PHASE
-  - O/H PRIMARY - LG=14.4KV, 1 PHASE
-  - O/H SECONDARY
-  - O/H FIBRE OPTICS
-  - O/H STREET LIGHT

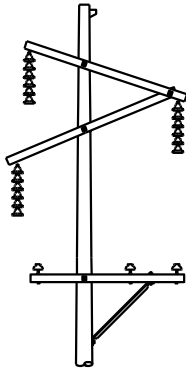
CODE NAMES FOR ACSR
AND ALUMINUM CONDUCTORS

- HERRING - #6 ACSR-SB TYPE 200%
- PICKEREL - #2 ACSR-SB TYPE 200%
- SPARROW - #2 ACSR
- ROBIN - #1 ACSR
- RAVEN - 1/0 ACSR
- QUAIL - 2/0 ACSR
- PIGEON - 3/0 ACSR
- PENGUIN - 4/0 ACSR
- BRAHMA - 203.2 KCMIL 16/19 ACSR
- PARTRIDGE - 266.8 KCMIL 26/7 ACSR
- LINNET - 336.4 KCMIL 26/7 ACSR
- PELICAN - 477 KCMIL 18/1 ACSR
- HAWK - 477 KCMIL 26/7 ACSR
- GROSBEAK - 636 KCMIL 26/7 ACSR
- DRAKE - 795 KCMIL 26/7 ACSR
- CURLEW - 1033.5 KCMIL 54/7 ACSR
- IRIS - #2 AL
- ASTER - 2/0 AL
- PHLOX - 3/0 AL
- OXLIP - 4/0 AL
- DAISY - 266.8 KCMIL AL
- TULIP - 336.4 KCMIL AL
- COSMOS - 477 KCMIL AL

SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK.	DRN. <i>DC</i>	CODE FOR LINE IDENTIFICATION
		CHKD. <i>FTK</i>	
		86-09-23	
DATE OF ISSUE 2010-04-21		DRAWING NO. A-02-01	SHEET 7 of 8 REV. A

EXAMPLES



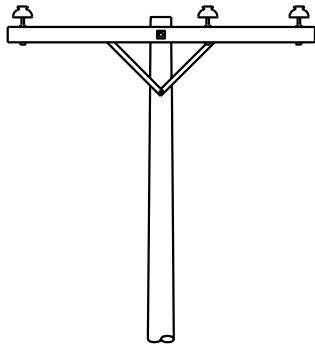
U3A-RAVEN-25

3Ø - 3 WIRES ON ALLEY ARM
CONSTRUCTION STRUNG UNDER
ANOTHER CIRCUIT.
CONDUCTOR RAVEN - 25,000 VOLTS
LINE TO LINE.



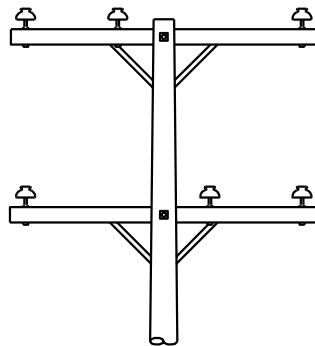
V-6HICON-14.4

RURAL CONSTRUCTION 1Ø WIRE.
CONDUCTOR #6 HI-CON STRANDED
STEEL. VOLTAGE 14,400 VOLTS
LINE TO GROUND.



3X-RAVEN-25

3Ø, 3 WIRES, ALL ON CROSSARM
CONDUCTOR RAVEN 25,000 VOLTS
LINE TO LINE.






U3X-RAVEN-25

3Ø - 3 WIRES ON CROSSARM
STRUNG UNDER ANOTHER CIRCUIT.
CONDUCTOR RAVEN 25,000 VOLTS
LINE TO LINE.




SASKATCHEWAN POWER CORP. - DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>DC</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD. <i>FTK</i>				
DATE 86-09-23	DATE	DATE	DATE	
DATE OF ISSUE 2007-04-16		DRAWING NO. A-02-01		SHEET 8 of 8
REV. A				




KEY TO LINE IDENTIFICATION

-  - 3 ϕ O.H. PRIMARY
-  - 1 ϕ O.H. PRIMARY
-  - O.H, SECONDARY, O/H STREET LIGHT SECONDARY, AND O/H SERVICES





POLES

-  - DISTRIBUTION POLE
-  - TRANSMISSION POLE
-  - STEEL STANDARD

MISCELLANEOUS LIGHT SYMBOLS

-  - ONE POLE STREET LIGHT RELAY
-  - TWO POLE STREET LIGHT RELAY
-  - PHOTO CELL

STATION COMPONENTS

-  - CIRCUIT BREAKER
-  - CIRCUIT SWITCHER
-  - NEUTRAL IMPEDANCE - RESISTOR
-  - NEUTRAL IMPEDANCE - REACTOR

SaskPower – DISTRIBUTION STANDARDS				
APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. Y.HAO CHKD.	SYMBOLS	
		2016-09-02		
DATE OF ISSUE	2016/11/08	DRAWING NO. A-02-02	SHEET 1 of 4	REV. A

METERING POINTS

- — METERING POINT (COMMERCIAL & RESIDENTIAL)
- — METERING POINT (PRIMARY)

STREET LIGHTS

- ⌘ — ALL STREET LIGHTS USE THE SAME SYMBOL

SYSTEM PROTECTION DEVICES

RECLOSER

- — INDICATE TYPE IN TOP HALF OF CIRCLE WITH RATING, (AMPS), IN BOTTOM HALF
- — ARROW INDICATES DIRECTION OF FEED
- GIS SYMBOLS DON'T SHOW TYPE/SIZE OR AN ARROW ANYMORE THIS IS JUST KEPT IN THE CSM FOR CLARIFICATION ON SOME DRAWING

EXAMPLES

- — 25 AMP TYPE "H" O.C.R.
- — R.V.E. WITH 280 AMP PHASE TRIP

FUSES

- ⬡ — TYPE "T" OR TYPE "X" FUSE LINK; 12 AMP FUSE INDICATED
 - ⬢ — TYPE "T" OR TYPE "X" FUSE LINK HEAVY; 12 AMP FUSE INDICATED
 - ⬠ — CUTOUT WITH SOLID FUSE LINK
 - ⬣ — TYPE "N" FUSE LINK; 10 AMP FUSE INDICATED
 - ⬤ — TYPE "N" FUSE LINK HEAVY; 10 AMP FUSE INDICATED
 - ⌘ — FUSE AT CONNECTIVITY SCALE
- } FUSES AT ALTERNATE DISPLAY SCALES

BACK TO INDEX PAGE

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. D.REDEKOPP CHKD. 2016-10-04	SYMBOLS
DATE OF ISSUE	2016/11/08	DRAWING NO. A-02-02	SHEET 2 of 4
		REV. B	

APPARATUS



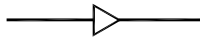
— POLE MOUNT TRANSFORMER INSTALLATION
WITH KVA SIZE (50 KVA SHOWN)



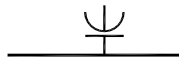
— PLATFORM MOUNT TRANSFORMER INSTALLATION



— TRANSFORMER BANK - GROUND MOUNT



— REGULATOR INSTALLATION; POINT TOWARDS LOAD (RURAL)



— CAPACITOR INSTALLATION



— SOLID BLADE DISCONNECT OR G.O.P.T. SWITCH

N/C

— NORMALLY CLOSED SWITCHES ARE NOT ANNOTATED
ALTERNATE DISPLAY SCALE USES RED DOT

N/O

— INDICATES SWITCH NORMALLY OPEN
ALTERNATE DISPLAY SCALE USED GREEN DOT



— AUTO TRANSFORMER INSTALLATION

BACK TO INDEX PAGE

SaskPower – DISTRIBUTION STANDARDS

APPROVAL
L.MOEN

DESIGN CHK.
P.COSTA-M.

DRN. Y.HAO
CHKD.

2018-01-22

SYMBOLS






DATE OF ISSUE **2018-02-20**

DRAWING NO. A-02-02


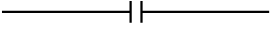




SHEET 3 of 4

REV. C

ANCHORING

-  — DOWN GUY
-  — PUSH BRACE
-  — OVERHEAD GUY AND ANCHOR
-  — SIDEWALK ANCHOR
-  — ROCK ANCHOR

MISCELLANEOUS

-  — GROUND
-  — OPEN POINT
-  — CHANGE OF CONDUCTOR AND/OR TYPE OF CONSTRUCTION INDICATED BY ARROWHEADS
-  — LOAD POINT
-  — GENERATING SOURCE
-  — STATION - SUBSTATION OR SWITCHING

BACK TO INDEX PAGE

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. D.REDEKOPP CHKD. 2016-10-04	SYMBOLS
DATE OF ISSUE	2016/11/08	DRAWING NO. A-02-02	SHEET 4 of 4
			REV. B

LENGTH

FROM IMPERIAL TO METRIC
 25.4 x INCHES = MILLIMETRES
 0.305 x FEET = METRES
 1.61 x MILES = KILOMETRES

FROM METRIC TO IMPERIAL
 0.0394 x MILLIMETRES = INCHES
 3.281 x METRES = FEET
 0.621 x KILOMETRES = MILES

AREA

FROM IMPERIAL TO METRIC
 645.2 x SQUARE INCHES = SQUARE MILLIMETRES
 0.093 x SQUARE FEET = SQUARE METRES
 0.836 x SQUARE YARDS = SQUARE METRES
 2.59 x SQUARE MILES = SQUARE KILOMETRES
 0.405 x ACRES = HECTARES

FROM METRIC TO IMPERIAL
 0.00155 x SQUARE MILLIMETRES = SQUARE INCHES
 10.75 x SQUARE METRES = SQUARE FEET
 1.196 x SQUARE METRES = SQUARE YARDS
 0.386 x SQUARE KILOMETRES = SQUARE MILES
 2.47 x HECTARES = ACRES

VOLUME

FROM IMPERIAL TO METRIC
 16387 x CUBIC INCHES = CUBIC MILLIMETRES
 16.387 x CUBIC INCHES = CUBIC CENTIMETRES
 0.0283 x CUBIC FEET = CUBIC METRES
 0.765 x CUBIC YARDS = CUBIC METRES
 4.546 x GALLONS = LITRES

FROM METRIC TO IMPERIAL
 0.000061 x CUBIC MILLIMETRES = CUBIC INCHES
 0.061 x CUBIC CENTIMETRES = CUBIC INCHES
 35.33 x CUBIC METRES = CUBIC FEET
 1.307 x CUBIC METRES = CUBIC YARDS
 0.22 x LITRES = GALLONS

BACK TO INDEX PAGE

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>DL</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	METRIC CONVERSION	
CHKD. <i>FTK</i>					
DATE 86-10-22	DATE	DATE	DATE		
DATE OF ISSUE 87-02-01			DRAWING NO. A-02-03	SHEET 1 of 2	REV. 0

MASS

FROM IMPERIAL TO METRIC
 $454 \times \text{POUNDS} = \text{GRAMS}$
 $0.454 \times \text{POUNDS} = \text{KILOGRAMS}$
 $0.907 \times \text{TONS} = \text{TONNES}$

FROM METRIC TO IMPERIAL
 $0.0022 \times \text{GRAMS} = \text{POUNDS}$
 $2.20 \times \text{KILOGRAMS} = \text{POUNDS}$
 $1.10 \times \text{TONNE} = \text{TONS}$

FORCE

FROM IMPERIAL TO METRIC
 $4.448 \times \text{POUNDS FORCE} = \text{NEWTONS}$

FROM METRIC TO IMPERIAL
 $0.225 \times \text{NEWTONS} = \text{POUNDS FORCE}$

NOTE: FORCE (WEIGHT) = MASS \times ACCELERATION (DUE TO GRAVITY)
 $N = kg \times m/s^2$ OR $lbf = lb \times ft/s^2$
GRAVITATIONAL ACCELERATION = $9.81m/s^2$ OR $32.2ft/s^2$

VELOCITY

FROM IMPERIAL TO METRIC
 $0.305 \times \text{FEET PER SECOND} = \text{METRES PER SECOND}$
 $1.61 \times \text{MILES PER HOUR} = \text{KILOMETRES PER HOUR}$

FROM METRIC TO IMPERIAL
 $3.28 \times \text{METRES PER SECOND} = \text{FEET PER SECOND}$
 $0.621 \times \text{KILOMETRES PER HOUR} = \text{MILES PER HOUR}$

PRESSURE

FROM IMPERIAL TO METRIC
 $6.895 \times \text{POUNDS FORCE PER SQUARE INCH} = \text{KILOPASCALS}$

FROM METRIC TO IMPERIAL
 $0.145 \times \text{KILOPASCALS} = \text{POUNDS FORCE PER SQUARE INCH}$

TEMPERATURE

FROM IMPERIAL TO METRIC
 $(^{\circ}\text{F} - 32) \times 0.556 = ^{\circ}\text{C}$ (DEGREE CELSIUS)

FROM METRIC TO IMPERIAL
 $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$ (DEGREE FAHRENHEIT)

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>DL</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	METRIC CONVERSION	
CHKD. <i>FTK</i>					
DATE 86-10-23	DATE	DATE	DATE		
DATE OF ISSUE	87-02-01	DRAWING NO.	A-02-03	SHEET 2 of 2	REV. 0

UNITS OF IMPERIAL MEASURE

lb = POUNDS (MASS)
tn = TON

lbf = POUND (FORCE)
psi = POUND (FORCE) PER SQUARE INCH

UNITS OF METRIC MEASURE

mm = MILLIMETRES
cm = CENTIMETRES
m = METRE
km = KILOMETRES
m² = SQUARE METRE
m³ = CUBIC METRE
m/s = METRE/SECOND
ha = HECTARE = 10,000 m²

L = LITRE = 1000 cm³
mL = MILLILITRE
g = GRAM
mg = MILLIGRAM
kg = KILOGRAM
t = TONNE = 1000 kg
N = NEWTON
Pa = PASCAL = N/m²
kPa = KILOPASCAL = kN/m²

VARIOUS

SIN = SINE OF AN ANGLE
COS = COSINE OF AN ANGLE
TAN = TANGENT OF AN ANGLE
AWG = AMERICAN WIRE GAUGE
DIA = DIAMETER
kcmil = THOUSAND CIRCULAR MILS (FORMERLY MCM)
HT = HEIGHT

BACK TO INDEX PAGE

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>DC</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	MISCELLANEOUS ABBREVIATIONS	
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