ELECTRICAL STANDARD ONE - LINE / WIRING DIAGRAM SYMBOLS

STANDARD ONE - LINE SYMBOLS

SYMBOL	DESCRIPTION
	IN - LINE SPLICE
	T-SPLICE - TWO-WAY, 600A, 15KV
	ELBOW, 15KV
	FUSE < 600V
	FIXED FUSE > 600V
	FUSED SWITCH > 600V - CLOSED
	FUSED SWITCH > 600V - OPEN
	DRAWOUT FUSE > 600V
	BOLTED OR FIXED CIRCUIT BREAKER < 600V
	DRAWNOUT CIRCUIT BREAKER < 600V
	BOLTED OR FIXED CIRCUIT BREAKER > 600V
	DRAWNOUT CIRCUIT BREAKER > 600V
	SWITCH - OPEN
	SWITCH - CLOSED
	TRANSFORMER
LOAD NORMAL STANDBY	TRANSFER SWITCH
	POTENTIAL TRANSFORMER
100:5	CURRENT TRANSFORMER
K	KIRK KEY
PULL BOX	PULL BOX
AM	AMMETER
VM	VOLTMETER
WM	WATTMETER
	LIGHTNING ARRESTOR
	CIRCUIT SWITCHER
	CAPACITOR BANK

STANDARD ONE - LINE SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
S & C PMH-3	S & C SWITCHGEAR PMH - 3, 15KV
S & C PMH-5	S & C SWITCHGEAR PMH - 5, 15KV
S & C PMH-6	S & C SWITCHGEAR PMH - 6, 15KV
S & C PMH-7	S & C SWITCHGEAR PMH - 7, 15KV
S & C PMH-8	S & C SWITCHGEAR PMH - 8, 15KV
S & C PMH-9	S & C SWITCHGEAR PMH - 9, 15KV
S & C PMH-10	S & C SWITCHGEAR PMH - 10, 15KV
S & C PMH-19	S & C SWITCHGEAR PMH - 19, 15KV

STANDARD WIRING DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	TERMINAL POINT
	TRANSFORMER
	BUZZER
	FUSE
	COIL - C INDICATES CONTACTOR OR STARTER, R INDICATES RELAY
	LAMP
	SOLENOID
	BATTERY
	EARTH GROUND

STANDARD WIRING DIAGRAMS SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	OPEN CONTACT
	CLOSED CONTACT
	FUSE TRON
	SWITCH NORMALLY - OPEN
	SWITCH NORMALLY - CLOSED
	LIMIT SWITCH NORMALLY - OPEN
	LIMIT SWITCH NORMALLY - CLOSED
	LIQUID LEVEL SWITCH NORMALLY - OPEN
	LIQUID LEVEL SWITCH NORMALLY - CLOSED
	VACUUM SWITCH NORMALLY - OPEN
	VACUUM SWITCH NORMALLY - CLOSED
	TEMPERATURE SWITCH NORMALLY - OPEN
	TEMPERATURE SWITCH NORMALLY - CLOSED
	FLOW SWITCH NORMALLY - OPEN
	FLOW SWITCH NORMALLY - CLOSED
	TIMING-CONTROLLED ENERGIZED SWITCH NORMALLY - OPEN
	TIMING-CONTROLLED ENERGIZED SWITCH NORMALLY - CLOSED
	TIMING-CONTROLLED DE-ENERGIZED SWITCH NORMALLY - OPEN
	TIMING-CONTROLLED DE-ENERGIZED SWITCH NORMALLY - CLOSED
	PUSHBUTTON NORMALLY - OPEN
	PUSHBUTTON NORMALLY - CLOSED
	MUSHROOM PUSHBUTTON NORMALLY - OPEN
	MUSHROOM PUSHBUTTON NORMALLY - CLOSED
	RESISTOR
	FUSED DISCONNECT SWITCH
M	MOTOR
H O A	HAND - OFF - AUTO
	FIRE ALARM SMOKE DETECTOR
1 2	FIRE ALARM BELL

STANDARD WIRING DIAGRAMS SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
1 2 3 4	FIRE ALARM PULL STATION (PRIMARILY ON EXISTING DRAWINGS)
S	STROBE LIGHT
1 2 3 4	FIRE ALARM MANUAL PULL STATION

NOT FOR CONSTRUCTION
ISSUED FOR CADD REFERENCE ONLY

REV	DATE	DESCRIPTION	DWN	CKD	APP
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KIRTLAND AREA OFFICE — ALBUQUERQUE, NEW MEXICO

SANDIA NATIONAL LABORATORIES

ONE-LINE/WIRING DIAGRAM SYMBOLS

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CHECKED BY: D. SHERMAN
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