

LANL ESM Chapter 1 Section 230 Att 1  
 Equipment and Component IDs  
 ID-Sort  
 5/23/2017

ID	NAME
1	Master Element
10	Switch, Unit Sequence
110GAL	Drum, 110 gallon
12	Device, Overspeed
13	Device, Synchronous Speed
14	Device, Underspeed
15	Device, Speed or Frequency Matching
17	Switch, shunting or discharge
18A	Device, Accelerating
18D	Device, Decelerating
19	Contactactor, Starting-To-Running Transition
2	Relay, Time-Delay Starting or Closing
20	Valve, electrically operated
21	Relay, Distance
22	Circuit Breaker, Equalizer
23	Device, Temperature Control
24	Relay, Static Breaker Failure
25	Synchronizing or Synchronism-Check Drive
26	Device, Apparatus Thermal
27	Relay, Undervoltage
28	Detector, Flame (e.g., boiler)
29	Contactactor, Isolating
3	Relay, Checking or Interlocking
30	Relay, Annunciator
31	Device, Separate Excitation
32	Relay, Directional Power
33	Switch, position (HV)
34	Device, Master Sequence
35	Device, Brush-Operating or Slip-Ring Short Circuiting
36	Device, Polarity or Polarizing Voltage
37	Relay, Undercurrent or Underpower
38	Device, Bearing Protective
39	Monitor, mechanical, condition
4	Contactactor, Master
40	Relay, Field
41	Circuit Breaker, Field
42	Circuit Breaker, Running
43	Device, Manual Trans/Select
44	Relay, Unit Sequence Starting
45	Monitor, atmospheric condition
46	Relay, Phase-Balance Current or Reverse-Phase
47	Relay, Phase-Sequence Voltage
48	Relay, Incomplete Sequence
49	Relay, Machine or Transformer Thermal
5	Device, Stopping
50	Relay, Instantaneous Overcurrent (OC)
51	Relay, AC Time Overcurrent
52	Circuit breaker, AC
53	Relay, Exciter or DC Generator
55	Relay, Power Factor
55GAL	Drum, 55 gallon
56	Relay, Field Application
57	Device, Short-Circuiting or Grounding
58	Relay, Rectifier Failure
59	Relay, Overvoltage
6	Circuit Breaker, Starting

60	Relay, Voltage or Current Balance
61	Relay, Current Balance
62	Relay, Time-Delay Starting or Closing
63	Switch, pressure (HV)
64	Relay, Ground Detector (Not CT Secondary)
65	Governor
66	Device, Notching or Jogging
67	Relay, AC Directional Overcurrent
68	Relay, Blocking
69	Control Device, Permissive
7	Circuit Breaker, Anode
70	Rheostat
71	Switch, level
72	Circuit Breaker, DC
73	Contactactor, Load-Resistor
74	Relay, Alarm
75	Mechanism, Position Changing
76	Relay, DC Overcurrent
77	Transmitter, Pulse
78	Relay, Out-of-Step Protective Phase-Angle Measuring
79	Relay, AC Reclosing
8	Device, Control Power Disconnecting
80	Switch, flow
81	Relay, Frequency
82	Relay, DC Reclosing
83	Relay, Automatic Selective Control or Transfer
84	Operating Mechanism
85	Relay, Carrier/Pilot-Wire Receiver
85GAL	Drum, 85 gallon
86	Relay, Locking-Out
87	Relay, Differential Protective
88	Generator, Auxiliary Motor or Motor
89	Switch, line
9	Device, Reversing
90	Regulating Device
91	Relay, Voltage Directional
92	Relay, Voltage and Power Directional
93	Contactactor, Field Changing
94	Relay, Tripping
95	Relay, Phase Discordance Handling Unit
AA	Alarm, analyzer
AAV	Automatic air vent (hydronic systems)
AC	Control, analyzer
ACB	Box, atmospheric control (TA-55 PSAA pos pr GB)
ACL	After cooler
ACO	Control operator, analyzer
ACR	Air conditioner, refrigerant
ACTR	Actuator
ADARMP	ADA ramp (bldg or sidewalk)
AE	Primary element, analyzer
AED	Automated external defibrillator
AES	Air-ejector, steam
AFD	Actuator, fire device
AFP	Argus Field Panel
AGA	Alarm, combustible gas
AGT	Agitator
AI	Indicator, analyzer
AIC	Control, indicating, analyzer
AIK	Control station, indicating, analyzer
AIR	Recorder, indicating, analyzer
AIS	Switch, indicating, analyzer
AIT	Transmitter, indicating, analyzer
AIT5	Switch, transmitting, indicating, analyzer

ALC	Alarm, carbon monoxide
ALM	Alarm
AM	Modifier, analyzer
AMP	Amplifier
ANLYZR	Analyzer or analytical instrument (when more specific does not exist)
ANN	Annunciator
AOBV	Valve, ball, air-operated
AOV	Valve, air operated (TA-55 only, others use Valve, solenoid - SOV)
AP	Test point or port, analyzer
AR	Recorder, analyzer
ARC	Control, recording, analyzer
ARK	Control station, recording, analyzer
ARMPL	Armor plate (e.g., ceiling)
ART	Transmitter, recording, analyzer
ARV	Valve, air relief (UI water distribution systems)
AS	Switch, analyzer
ASE	Air sampler, exhaust stack
ASH	Switch, analyzer, high
ASHL	Switch, analyzer, high or low
ASL	Switch, analyzer, low
ASSY	Assembly
AT	Transmitter, analyzer
ATERM	Air terminal (e.g., LPS)
ATS	Switch, transfer, automatic
ATT	Attenuator – sound, etc.
AV	Final element, analyzer
AW	Well, analyzer
AY	Relay, analyzer
BAL	Balance or scale
BARR	Barrier (rail, bollard, jersey, manual gate, etc.)
BAS	Station, breathing air
BASIN	Basin or pond
BATCH	Batch plant (asphalt, concrete, etc.)
BB	Battery, banked
BC	Control, burner
BD	Board (circuit, etc.)
BE	Primary element, burner
BERM	Berm
BFP	Backflow preventer
BG	Sight glass, burner
BHW	Boiler, hot water
BI	Indicator, burner
BIC	Control, indicating, burner
BIK	Control station, indicating, burner
BIT	Transmitter, indicating, burner
BL	Blower
BLDG	Building incl. office trailer
BMS	Switch, magnetic, balanced (e.g., door)
BP	Test point or port, burner
BR	Recorder, burner
BRC	Control, recording, burner
BRDG	Bridge
BRT	Transmitter, recording, burner
BS	Boiler, steam
BSH	Switch, burner, high
BSHL	Switch, burner, high low
BSL	Switch, burner, low
BSU	Branch selector unit
BT	Transmitter, burner
BTN	Button, Push (switch)
BTRY	Battery or battery box

BV	Blower, vacuum
BVT	Valve, ball, trunion
BW	Well, burner
BWS	Boiler, water supply
BY	Relay, burner
BZ	Final element, burner
CA	Compressor, air
CA@	Alarm, conductivity
CAB	Cabinet (including control)
CAE	Cooler, air, evaporative
CAGE	Cage (wire/fence or restraint)
CAM	Monitor, continuous air
CAMERA	Camera
CAP	Capacitor, non-pad mounted
CART	Cart
CASD	Criticality Alarm Sys (CAS) Detector
CASR	Criticality Alarm Sys (CAS) Ratemeter
CAV	Constant air volume (box)
CAW	Cooler, air, water
CB	Charger, battery
CBA	Circuit breaker, air (MV or HV)
CBE	Circuit breaker, enclosed (individual MCCB NEMA AB 1, often used as disconnect)
CBG	Circuit breaker, gas (MV or HV)
CBO	Circuit breaker, oil (MV or HV)
CBT	Test set, relay, overload, and or circuit breaker
CBV	Circuit breaker, vacuum (MV or HV)
CC	Control, conductivity
CCE	Coil, cooling, evaporative
CCG	Coil, cooling, glycol
CCL	Coil, cooling
CCO	Control operator, conductivity
CD	Collector, dust
CDD	Disconnect, circuit (enclosed switch, safety switch)
CE	Primary element, conductivity
CEO	Circuit, electric, overhead
CEU	Circuit, electric, underground
CHAMB	Chamber
CHAS	Chassis (including ethernet)
CI	Indicator, conductivity
CIC	Control, indicating, conductivity
CIK	Control station, indicating, conductivity
CIP	Panel, camera interface
CIS	Switch, indicating, conductivity
CIT	Transmitter, indicating, conductivity
CJ	Crane, jib
CM	Crane, monorail
CM@	Modifier, conductivity
CNTRLR	Controller (TA55 use only, others use specific kind)
CNTR	Contact
CNV	Converter
CO	Cleanout
COL	Collector (e.g., drip or catch pan)
COMPR	Compressor
COMX	Communication, Special
COND	Condenser (e.g., process)
CONN	Connector or coupling (including electrical grounds)
CONT	Container
CP	Controller, pneumatic (phasing out; note, CP=control panel at TA-55)
CP	Panel, control (TA55 only; others use CPL)
CPF	Controller, pneumatic, flow
CPL	Panel, control

CPMD	Capacitor, pad mounted
CPU	Central processing unit (computer)
CR	Compressor, refrigerant
CR@	Recorder, conductivity
CRA	Condenser, refrigerant, air-cooled (if compressor see RUA; see also CRAC)
CRAC	Computer room air conditioner (e.g., the indoor unit connected to a CRA or RUA)
CRACK	Crack or Fissure in Building
CRANE	Crane, mobile or fixed (use specific type where possible)
CRC	Control, recording, conductivity
CRE	Condenser, refrigerant, evaporative
CRK	Control station, recording, conductivity
CRT	Terminal or screen, cathode ray tube or solid state
CRU	Condensate recovery unit
CRUC	Crucible
CS	Crane, shop
CS@	Switch, conductivity
CSM	Continuous Air Monitor (CAM) Supervisor Module
CT	Transmitter, conductivity
CTE	Condenser, turbine exhaust
CTG	Crane, gantry
CTO	Crane, bridge
CTPERM	Counter, permanent (e.g., autos, not PCM)
CTPORT	Counter, portable
CURB	Curbing (asphalt, concrete)
CV	Valve, check (preferred)
CVVR	Conveyor (belt, auger, etc.)
CW	Column, water
CWA	Chiller, water, absorption
CWE	Chiller, water, evaporative
CWR	Chiller, water, refrigerant
CYL	Cylinder
DAB	Diffuser, aeration basin
DAC	Door, air curtain
DAD	Dryer, air, desiccant
DAQ	Data Acquisition
DAR	Dryer, air, refrigerant
DB	Bus duct (aboveground) (TA-55 only uses as drop box)
DB	Drop Box (TA55 only. DB normally bus duct)
DBD	Distribution Bus Duct
DBPL	Bus Plug
DDT	Dryer, catalyst (e.g., Dri-Train)
DECK	Deck (e.g., bridge, roof)
DEWAR	Dewar
DF	Damper, fire
DFL	Drive, fluid
DGRS	Regulator, gas, district
DHM	Dehumidifier
DHO	Disconnect, hand-operated
DIF	Diffuser
DM	Door, motorized
DMN	Demineralizer
DMO	Disconnect, motor-operated
DMP	Damper
DMST	Demister
DNZ	Water unit, deionized
DP	Press, drill
DR	Door
DRE	Door, roll-up, electric
DRH	Door, roll-up, hydraulic
DRM	Door, roll-up, manual

DRN	Drain
DS	Damper, smoke (some legacy use as door switch, now use BMS)
DSH	Desuperheater
DSHW	Dishwasher, glassware cleaner, or sterilizer
DT	Drum Tumbler
DUCT	Duct
DW	Dumbwaiter
DWR	Drawer
DWS	Water softener
EA	Alarm, voltage
EC	Control, voltage
EE	Elevator, electric
EE@	Primary element, voltage
EG	Electro corrector, gas
EH	Elevator, hydraulic
EI	Indicator, voltage
EIC	Control, indicating, voltage
EIK	Control station, indicating, voltage
EIS	Switch, indicating, voltage
EIT	Transmitter, indicating, voltage
ELEM	Element (electric, heating, etc.)
EM	Modifier, voltage
ENG	Engine
EP	Panel, emergency power
EQ	Totalizer, voltage
ER	Recorder, voltage
ERC	Control, recording, voltage
ERT	Transmitter, recording, voltage
ERV	Energy recovery ventilator
ES	Stack, exhaust
ESH	Switch, voltage, high
ESHL	Switch, voltage, high or low
ESL	Switch, voltage, low
ESS	Equipment, surveillance
ET	Transmitter, voltage
EVP	Evaporator
EW	Eyewash
EWM	Welder, electric
EXC	Exciter
EXPJT	Expansion joint (piping, bridge)
EXS	Fire suppression extinguishing system, gaseous or halon
EXT	Extinguisher, fire
EY	Relay, voltage
EZ	Final element, voltage
FA	Alarm, flow
FAB	Filter, air, bag or box
FAC	Filter, air, cleanable
FAF	Filter, air, fire
FAH	Filter, air, HEPA (or gas)
FAL	Filter, air, charcoal
FAM	Filter, air, mat
FAN	Fan
FAP	Filter, air, pad
FAR	Filter, air, roughing
FAS	Fixed Head Air Sampler
FB	Fan, booster
FC	Fan, circulating
FC@	Control, flow
FCD	Fan, condenser
FCO	Control operator, flow
FCP	Panel, control, fire alarm

FCPB	Battery, fire control panel
FCT	Fan, cooling tower
FCU	Fan coil unit
FCV	Valve, control, flow
FD	Drain, floor
FDC	Door, fire, structural
FDC@	Fire department connection
FDE	Door, fire, electrical
DFD	Door, fire, mechanical
FE	Fan, exhaust
FE@	Primary element, flow
FEACLD	Fire extinguishing agent, Class D
FEH	Fan, exhaust, fume hood
FEN	Fence
FES	Filter, air, electrostatic
FF	Frame, Filter
FFC	Control, flow, ratio
FFI	Indicator, flow, ratio
FFIC	Control, indicating, flow ratio
FFM	Modifier, flow, ratio
FFR	Recorder, flow, ratio
FFRC	Control, recording, flow, ratio
FFS	Switch, flow, ratio
FFSH	Switch, flow, ratio, high
FFSL	Switch, flow, ratio, low
FFT	Transmitter, flow, ratio
FFV	Final element, flow, ratio
FG	Sight glass, flow
FGF	Furnace, gas fired
FH	Fume hood (but use XB when leading to a GB)
FI	Indicator, flow
FIC	Control, indicating, flow
FICV	Valve, control, indicating, flow
FIK	Control station, indicating, flow
FIS	Switch, indicating, flow
FIT	Transmitter, indicating, flow
FLASHR	Flasher
FLT	Filter (liquid mainly)
FM	Modifier, flow
FO	Filter, oil
FP	Penetration, floor or ceiling
FP@	Test point or port, flow
FPE	Fall protection equipment
FQ	Totalizer, flow
FQE	Primary element, flow, quantity
FQI	Indicator, flow, totalized
FQIC	Control, indicating, flow, quantity
FQIS	Switch, indicating, totalizing, flow
FQIT	Transmitter, indicating, flow, quantity
FQM	Modifier, flow, totalizer
FQR	Recorder, flow, totalized
FQRC	Control, recording, flow, quantity
FQS	Switch, flow, totalized
FQSH	Switch, flow, quantity, high
FQSL	Switch, flow, quantity, low
FQT	Transmitter, flow, totalizer
FQV	Final element, flow, quantity
FQY	Relay, flow, quantity
FR	Recorder, flow
FRA	Fan, return or recirculation
FRC	Control, recording, flow
FRK	Control station, recording, flow
FRKLFT	Forklift

FRL	Filter, roll
FRT	Transmitter, recording, flow
FS	Fan, supply
FS@	Switch, flow
FSDC	Fire suppression dry chemical
FSH	Switch, flow, high
FSHL	Switch, flow, high or low
FSHWI	Fire suppression hybrid water/inert
FSL	Switch, flow, low
FSW	Switch, flow (TA-55, not preferred)
FSWC	Fire suppression wet chemical
FSWF	Fire suppression wet foam
FSWFA	Fire suppression wet foam preaction
FT	Transmitter, flow
FTB	Field termination box
FU	Fuse
FV	Final element, flow, rate
FVAV	Variable air volume box with fan
FXTR	Fixture
FY	Relay, flow, rate
GB	Glovebox
GC	Gas chromatograph
GDE	Generator, diesel engine
GE	Gate, electric
GEN	Generator
GFCI	Ground Fault Circuit Interrupter
GH	Gate, hydraulic
GI	Indicator, ground
GNE	Generator, natural gas engine
GNS	Generator, steam driven
GRB	Grinder, belt
GRBX	Gearbox
GRD	Grille, register, diffuser, or louver (HVAC)
GRP	Grinder, pedestal
GRS	Grinder, surface
GT	Trap, grease
GX	Tester, balance
GXT	Leak detector or tester
HAS	Humidifier, air, steam
HAW	Humidifier, air, water
HB	Hose bib
HC	Control, hand
HCL	Coil, heating
HCO	Control operator, hand
HCP	Panel, control, halon
HD	Detector, heat (but XTS preferred)
HDA	Heater, deaerating
HDE	Heater, duct, electric
HDG	Heater, duct, gas
HE	Hoist or winch, electric
HEPAPU	HEPA filter, portable unit or vacuum
HFH	Heater, feed water, high-pressure
HFI	Heater, feed water, intermediate-pressure
HFL	Heater, feed water, low-pressure
HFM	Hand and foot monitor
HIC	Control, indicating, hand
HIS	Switch, indicating, hand
HL	Light, hand
HM	Hoist or winch, manual
HOA	Switch, hand off auto or selector
HP	Hoist or winch, pneumatic/hyd
HPU	Power unit, hydraulic
HS	Switch, hand (single throw or push button; for selectors)

	use hand-off-auto HOA)
HSE	Heater unit, air, steam-electric
HSSD	Detector, smoke, high sensitivity (incl. aspirating)
HST	Hoist or winch (TA55 only; others use specific kind)
HTPLT	Hot Plate
HTR	Heater (e.g., electric element)
HUE	Heater unit, air, electric
HUG	Heater unit, air, gas
HUI	Heater unit, air, infrared
HUS	Heater unit, air, steam
HUW	Heater unit, air, water
HV	Heating ventilation unit (see also Furnace)
HV@	Final element, hand
HVA	Heating ventilation air conditioning unit (furnace or heat pump w/ heat and cool; heat only see Furnace; cool only see ACR; fan/coil only see fan coil unit FCU)
HVP	Heating Ventilation Plenum Frame (has coils; otherwise use frame, filter)
HVYEQ	Equipment, Heavy
HWE	Heater, water, electric
HWG	Heater, water, gas
HWS	Heater, water, steam
HX	Heat exchanger
HXG	Heat exchanger, glycol
HXO	Heat exchanger, oil
HXR	Heat exchanger, refrigerant
HXS	Heat exchanger, steam
HXW	Heat exchanger, water
HYD	Hydrant
HYDSYS	Hydraulic system
IA	Alarm, current
IC	Control, current
ICCB	Circuit breaker, insulated case (in a LV swbd)
ICOM	Intercom
IE	Primary element, current
IGNTR	Igniter
II	Indicator, current
IIC	Control, indicating, current
IIK	Control station, indicating, current
IIS	Switch, indicating, current
IIT	Transmitter, indicating, current
IM	Modifier, current
IMM	Ice maker machine
IN	Instrument (legacy RLUOB R&D only; when new use true functional ID)
INCLR	Intercooler
INVT	Inverter
IOM	Remote I/O Adaptor Module
IQ	Totalizer, current
IR	Recorder, current
IRC	Control, recording, current
IRT	Transmitter, recording, current
IS	Switch, current
ISH	Switch, current, high
ISHL	Switch, current, high or low
ISL	Insulation
ISL	Switch, current, low
IT	Transmitter, current
IY	Relay, current
IZ	Final element, current
JA	Alarm, power
JBOX	Box, junction
JC	Control, power

JCP	Jet, condenser, priming
JE	Primary element, power
JI	Indicator, power
JIC	Control, indicating, power
JIK	Control station, indicating, power
JIT	Transmitter, indicating, power
JM	Modifier, power
JQR	Recorder, power, totalizing (incl watt-hr mtr)
JR	Recorder, power
JRC	Control, recording, power
JRT	Transmitter, recording, power
JS	Switch, power
JSH	Switch, power, high
JSHL	Switch, power, high or low
JSL	Switch, power, low
JT	Transmitter, power
JV	Final element, power
JWHQ	Totalizer, power, watt-hour
JWHT	Transmitter, power, watt-hour
JX	Power supply, electric
JY	Relay, power
KARDEX	Automated storage and retrieval (Lektiever, Kardex)
KC	Control, time
KCV	Valve, control, timed
KE	Primary element, time
KI	Indicator, time
KIC	Control, indicating, time
KIS	Switch, indicating, time
KIT	Transmitter, indicating, time
KQ	Totalizer, time
KQI	Indicator, time, totalized
KQT	Transmitter, time, totalized
KR	Recorder, time
KRC	Control, recording, time
KRT	Transmitter, recording, time
KS	Switch, timer
KSH	Switch, time, high
KSHL	Switch, time, high or low
KSL	Switch, time, low
KT	Transmitter, time
KV	Valve, key, natural gas
KV@	Final element, time
KY	Relay, time
KYBD	Keyboard
LA	Alarm, level
LADR	Ladder
LASER	Laser
LAT	Lathe
LB	Isolator, level
LC	Control, level
LCC	Logic control chassis
LCHR	Launcher
LCO	Control operator, level
LCV	Valve, control, level
LDC	Load cell
LDR	Loader or similar earth-mover
LE	Primary element, level
LEP	Lift, platform, electric
LET	Line, electric, transmission
LF	Lighting fixture
LFT	Lift (use specific where possible)
LG	Sight glass, level
LI	Indicator, level

LIC	Control, indicating, level
LIL	Interlock, laser
LIS	Switch, indicating, level
LIT	Transmitter, indicating, level
LM	Modifier, level
LME	Lift, materials, electric
LMF	Lock, metal former
LMH	Lift, materials, hydraulic
LMM	Lift, materials, mobile
LMP	Lift, materials, pneumatic
LN	Lighting, incandescent
LP	Panel, lighting (legacy; use PP now)
LPE	Lift, personnel, electric
LPG	Lift, personnel, gasoline
LPH	Lift, personnel, hydraulic
LPP	Lift, personnel, pneumatic
LPT	Lightning protection
LR	Recorder, level
LRC	Control, recording, level
LRK	Control station, recording, level
LRT	Transmitter, recording, level
LS	Switch, level
LSH	Switch, level, high
LSHL	Switch, level, high or low
LSL	Switch, level, low
LSS	Light, street
LT	Transmitter, level
LTCOMB	Light, emergency/exit sign combo
LTE	Light, emergency
LTET	Light, exit sign, tritium or other self-luminous
LTNT	Light, exit sign, lit (non-tritium/not self-luminous)
LUV	Light, ultraviolet (e.g., UV sterilization)
LV	Final element, level
LVCCWU	Limited volume circulation chilled water unit
LVPCB	Circuit breaker, low voltage power (draw-out mounted power CB in ANSI-rated LV swgr)
LW	Well, level
LWI	Lift, wheelchair, inclined
LWV	Lift, wheelchair, vertical
LY	Relay, level
MA	Alarm, moisture
MACH	Machine
MANF	Manifold
MBPERM	Message board, permanent
MBPORT	Message board, portable
MC	Mixer, chemical
MC@	Control, moisture
MCC	Motor control center
MCCB	Circuit breaker, molded-case in pnld or swbd
MCSUPP	Support Mechanism (e.g., HVAC seismic restraint)
MDS	Disinfection system, mixed-oxidant
ME	Primary element, moisture
MG	Generator, motor
MGD	Meter, gas, district
MGR	Meter, gas, revenue
MHE	Manhole, electric
MHS	Manhole, steam
MHT	Meter, humidity or temperature
MI	Indicator, moisture
MIC	Control, indicating, moisture
MIK	Control station, indicating, moisture
MIKE	Microphone
MIS	Switch, indicating, moisture

<b>MISC</b>	<b>Miscellaneous (consult Ch 1 POC before using)</b>
MIT	Transmitter, indicating, moisture
MIX	Mixer (e.g., PA)
MKGS	Markings (pavement or otherwise)
MM	Milling machine
MM@	Modifier, moisture
MMD	Meter, multimeter, digital
MMO	Meter, megohm
MNC	Mill, numeric control
MO	Motor
MOLESV	Molecular sieve
MON	Monitor
MPH	Meter, pH
MR	Recorder, moisture
MRC	Control, recording, moisture
MS	Valve, main steam
MS@	Switch, moisture
MSTR	Starter, motor
MT	Transmitter, moisture
MTR	Meter (generic)
MTS	Switch, transfer, manual
MUF	Muffler
MUX	Multiplexer
MW	Meter, water
MWW	Manhole, waste water
NAA	Notification appliance, audio
NAAV	Notification appliance, audio visual
NAV	Notification appliance, visual
NCD	Device, network communication
NGN	Bottle, nitrogen
NGRS	Regulator, natural gas
NZL	Nozzle
OF	Open front hood (RLUOB red/zone 2 hoods only; TA-55 uses XB for similar)
OI	Analyzer, oxygen
OIA	Alarm, oxygen, indicating
OPG	Orifice plate, gas (RO preferred)
OSY	Valve, outside screw & yoke
OUT	Outlet, non-telephone
OVEN	Oven or electric furnace
P	Pump
PA	Alarm, pressure
PAC	Pump, acid or chemical
PAVEMT	Pavement (ashpalt, concrete), pad, or slab
PBF	Pump, boiler feed
PBX	Box, pull
PC	Pump, condensate
PC@	Control, pressure
PCM	Personnel contamination monitor
PCO	Control operator, pressure
PCR	Pump, circulating
PCT	Pump, cooling tower
PCV	Valve, control, pressure
PCW	Pump, chilled or cooling water
PDA	Alarm, differential pressure
PDC	Control, differential pressure
PDCO	Control operator, differential pressure
PDCV	Valve, control, differential pressure
PDE	Primary element, differential pressure
PDH	Pump, hot water, domestic (potable)
PDI	Indicator, pressure differential
PDIC	Control, indicating, differential pressure
PDIK	Control station, indicating, differential pressure

PDIS	Switch, indicating, pressure differential
PDISH	Switch, indicating, pressure differential, high
PDISL	Switch, indicating, pressure differential, low
PDIT	Transmitter, indicating, differential pressure
PDM	Modifier, differential pressure
PDR	Recorder, differential pressure
PDRC	Control, recording, differential pressure
PDRK	Control station, recording, differential pressure
PDRT	Transmitter, recording, differential pressure
PDS	Switch, pressure differential
PDSH	Switch, pressure differential, high
PDSL	Switch, pressure differential, low
PDT	Transmitter, differential pressure
PDU	Power distribution unit
PDV	Final element, differential pressure
PDW	Pump, deionized water
PDY	Relay, differential pressure
PE	Pole, electrical distribution
PE@	Primary element, pressure
PFO	Pump, fuel oil
PFP	Pump, fire protection
PG	Pump, glycol
PH	Press, hydraulic
PHE	Primary element, pH
PHI	Indicator, pH
PHO	Pump, hydraulic
PHW	Pump, hot water
PI	Indicator, pressure
PIC	Control, indicating, pressure
PIM	Modifier, indicating, pressure
PIPE	Pipe or piping
PIS	Switch, indicating, pressure
PIT	Transmitter, indicating, pressure
PIV	Valve, post indicating
PIVA	Valve, post indicating, annunciated
PKLOTP	Parking lot, paved
PKLOTU	Parking lot, unpaved
PL and PNL	Panel (TA-55 legacy; use specific where possible)
PLATF	Platform (fixed or moveable, but not lifting type)
PLC	Controller, programmable logic
PLL	Pallet
PLT	Plate
PLTLT	Light, pilot
PLUG	Plug (shield, cable, etc.)
PM	Modifier, pressure
PMG	Generator, permanent magnet
PO	Pump, oil
PP	Panel, power
PP@	Test point or port, pressure
PPB	Pump, pressure, boosting
PPDC	Panel, power, direct current
PPTT	Pipette
PR	Relay, protective
PR@	Recorder, pressure
PRC	Control, recording, pressure
PRD	Pressure regulating device (bubbler; use PRV for valves)
PRNT	Printer or plotter
PRT	Transmitter, recording, pressure
PRV	Valve, pressure relief (preferred acro for all RVs)
PS	Pump, sump
PS@	Switch, pressure

PSA	Pump, sampler air
PSD	Phase shifting device
PSE	Safety device, pressure (rupture disk) RPD preferred
PSH	Switch, pressure, high
PSHL	Switch, pressure, high or low
PSL	Switch, pressure, low
PSR	Pump, sewage, raw
PSTART	Starter, pneumatic
PSV	Valve, pressure safety (steam-air-gas service only) but see PRV
PSW	Pump, sealant water
PSX	Hose
PT	Transmitter, pressure
PTR	Pressure test rig (hydro/pneumo)
PTW	Pump, tempered water
PV	Pump, vacuum
PV@	Final element, pressure
PVPANL	Photovoltaic panel
PWS	Pump, water spray
PWT	Pump, waste treatment
PY	Relay, pressure
QE	Primary element, quantity
QI	Indicator, quantity
QIC	Control, indicating, quantity
QIT	Transmitter, indicating, quantity
QR	Recorder, quantity
QRC	Control, recording, quantity
QRT	Transmitter, recording, quantity
QSH	Switch, quantity, high
QSHL	Switch, quantity, high or low
QSL	Switch, quantity, low
QT	Transmitter, quantity
QY	Relay, quantity
QZ	Final element, quantity
RA	Alarm, radiation
RACK	Rack
RAP	Panel, remote access
RBE	Road block, electric
RBH	Road block, hydraulic
RC	Control, radiation
RDLOC	Road, local (incl. driveways)
RDPRM	Road, primary (arterial)
RDR	Reader
RDSEC	Road, secondary (collector)
RDUP	Road, unpaved
RE	Primary element, radiation (beta, beta/gamma, etc.)
REAC	Reactor
RECT	Rectifier
REG	Regulator, gas bottle
RESN	Resin
RETWAL	Wall, retaining
RFIHD	Radio frequency inductively heated device
RGA	Residual Gas Analyzer
RGNG	Rigging (slings, shackles, etc)
RI	Indicator, radiation
RIC	Control, indicating, radiation
RIS	Switch, indicating, radiation
RIT	Transmitter, indicating, radiation
RLB	Load bank, resistance
RLT	Alarm, access, red-light
RLY	Relay or Relay Module (TA-55 only, others use specific type)
RM	Modifier, radiation

RMF	Roller, metal forming
RMHND	Robotic Material Handler, manipulator, master-slave
RO	Orifice, restricting
ROU	Reverse osmosis unit
RPD	Rupture disk or disc
RPG	Regulator, pressure, gas
RPP	Road & park lots, paved (legacy)
RPW	Regulator, pressure, water
RR	Recorder, radiation
RRC	Control, recording, radiation
RRT	Transmitter, recording, radiation
RS	Roof section
RSH	Switch, radiation, high
RSHL	Switch, radiation, high or low
RSL	Switch, radiation, low
RSPERM	Sign, radar speed, permanent
RSPORT	Sign, radar speed, portable
RSTRNT	restraint (e.g., strapping, banding, netting, film, chain)
RT	Transmitter, radiation
RTD	Reagent (or remote) transfer device
RTU	Remote terminal unit
RUA	Refrigeration unit, air (with compressor and condensing coil; see also CRA, CRAC)
RUP	Road & park lots, unpaved (legacy)
RV	Regulator, voltage
RVS	Valve, regulator, steam
RW	Well, radiation
RY	Relay, radiation
RZ	Final element, radiation
S	Siren
SA	Alarm, speed
SAFE	Safe
SAI	Solution assay instrument
SAMP	Sample Port or sampler
SAW	Saw
SB	Screen, bar, mechanical
SBL	Sand blaster
SC	Control, speed
SCB	Scrubber
SCBA	Self Contained Breathing Apparatus
SCO	Control operator, speed
SCR	Strainer
SCV	Valve, control, speed
SD	Sander
SDWLK	Sidewalk
SE	Primary element, speed
SEAL	Seal or sealing containment ring (or gasket)
SEP	Separator
SESE	Primary element, seismic
SESR	Recorder, seismic
SF	Scrubber, fume
SG	Shaker, graphite
SHD	Shower, decontamination
SHLD	Shielding, radioactive or other (also see Plug)
SHLO	Shelves or shelf
SHR	Shower enclosure (general use)
SHRDR	Shredder
SHS	Shower, safety
SI	Indicator, speed
SIC	Control, indicating, speed
SIGN	Sign (traffic, reflectors, etc.)
SIK	Control station, indicating, speed
SIS	Switch, indicating, speed

SIT	Transmitter, indicating, speed
SLS	Lift station, sewage
SLW	Slinger, water spray
SM	Modifier, speed
SMC	Shear, metal cutting
SMD	Detector, smoke
SMF	Main, force, sewage
SNK	Sink
SNSR	Sensor, generic (use specific element where possible)
SO	Separator, oil
SOIL	Soil (dirt cover)
SOV	Valve, solenoid
SPA	Sprinkler, preaction
SPCR	Spacer
SPD	Sprinkler, dry pipe
SPDA	Sprinkler, dry/preaction combined
SPDE	Surge protective device (lightning suppressor or arrester, all voltages)
SPDEL	Sprinkler, deluge
SPEC	Mass Spectrometer or other
SPF	Sprinkler, anti-freeze
SPH	Standpipe
SPHD	Standpipe, dry (manual)
SPK	Speaker
SPM	Switch, pad mounted (MV, has 1 or more interrupter switches)
SPRSTR	Superstructure (e.g., bridge)
SPRT	Support or Stand (GB, etc.)
SPW	Sprinkler, wet pipe
SR	Recorder, speed
SRC	Control, recording, speed
SRNK	Sprinkler (head)
SRT	Transmitter, recording, speed
SS	Switch, speed
SSBU	Bus, substation (HV)
SSH	Switch, speed, high
SSHL	Switch, speed, high or low
SSL	Switch, speed, low
ST	Switch, transformer
ST@	Transmitter, speed
STA	Station (except breathing air)
STRIKE	Strike, door (e.g., electric; some legacy use of DS, but use STRIKE)
SUB	Substation (HV)
SUBSTR	Substructure (e.g., bridge, slab, foundation)
SUS	Substation, unit, secondary [integrated assy w/ fused MV interrupter switch(es), power xfmr(s), swgear, breakers, and a LV swgear assy.]
SV	Switch, vacuum
SV@	Final element, speed
SVC	Static var compensator or control system
SW	Switch, generic (use specific where possible)
SWB	Box, standard waste
SWBD	Switchboard (NEMA)
SWGR	Switchgear (ANSI) with either breakers or fused interrupter switches
SY	Relay, speed
SYN	Synchroscope
<b>SYS</b>	<b>System (for single CMMS entry for entire OPsystem or System)</b>
TA	Alarm, temperature
TAC	Tank, acid or chemical
TBL	Table
TBLK	external

TBTRLS	Tube trailer station
TC	Tower, cooling
TC@	Control, temperature
TCA	Tank, compressed air
TCF	Tank, condensate, flash
TCI	Tank, chemical injection
TCO	Control operator, temperature
TCS	Tank, condensate, steam
TCV	Valve, control, temperature
TCW	Tank, condensate, water
TDC	Control, differential temperature
TDCV	Valve, control, differential temperature
TDI	Indicator, differential temperature
TDIC	Control, indicating, differential temperature
TDIT	Transmitter, indicating, differential temperature
TDM	Modifier, differential temperature
TDR	Recorder, differential temperature
TDRC	Control, recording, differential temperature
TDRT	Transmitter, recording, differential temperature
TDS	Switch, temperature differential
TDSH	Switch, temperature differential, high
TDSL	Switch, temperature differential, low
TDT	Transmitter, differential temperature
TDV	Final element, differential temperature
TDY	Relay, differential temperature
TE	Primary element, temperature (e.g., T/C, TC, TCP, thermocouple, thermistor)
TEL	Telecom or data jack, or phone itself
TELE	Television
TG	Tank, glycol
TH	Thermostat
THP	Tank, hydraulic pressure
TI	Indicator, temperature
TIC	Control, indicating, temperature
TIK	Control station, indicating, temperature
TIS	Switch, indicating, temperature
TIT	Transmitter, indicating, temperature
TK	Tank
TLA	Tower, electric, PNM LA
TM	Modifier, temperature
TMP	Tower, electric, PNM MP
TNC	Thermal neutron counter
TNL	Tower, electric, PNM NL
TO	Tank, oil
TOILET	Toilet
TOOL	Tool or tooling
TP	Test point or port, temperature
TPWS	Tank, potable water, storage
TQS	Screwdriver, torque
TQT	Tester, torque
TQW	Wrench, torque
TR	Recorder, temperature
TRAIL	Trail
TRC	Tank, refrigerant
TRC@	Control, recording, temperature
TRCALM	Traffic calming (hump, bump, table)
TRCTR	Tractor
TRK	Control station, recording, temperature
TRLR	Trailer (if office, use BLDG)
TRLY	Trolley
TRLYT	Trolley Tunnel
TRNKED	Trunked radio
TRP	Trap

TRPPMR	Trap primer
TRS	Tank, retention or storage
TRS@	Switch, recording, temperature
TRSGNL	Signal, traffic
TRT	Transmitter, recording, temperature
TRUCK	Truck (pickup, flatbed, semi etc.)
TS	Trap, steam
TS@	Switch, temperature
TSA	Tank, separator, air
TSD	Turbine, steam driven
TSE	Safety device, temperature (fusible link)
TSH	Switch, temperature, high
TSHL	Switch, temperature, high or low
TSL	Switch, temperature, low
TSTEQ	Equipment, Test (only when no specific applies)
TT	Transmitter, temperature
TTE	Tower, electric, PNM TE
TTT	Turntable
TUNNEL	Tunnel
TURB	Turbine (including gas-driven power turbines)
TV	Tank, vacuum
TV@	Final element, temperature
TW	Well, thermal (thermowell)
TWC	Tank, water, chilled or cooling
TWD	Tank, water, deionized or demineralized
TWH	Tank, water, hot
TWS	Tank, water, sealant
TWT	Tank, waste treatment
TX	Tank, expansion
TY	Relay, temperature
UI	Indicator, multivariable
UPS	Uninterruptible power supply
UR	Recorder, multivariable
USC	Ultrasonic cleaner or bath
UV	Final element, multivariable
UY	Relay, multivariable
V	Valve
VA	Alarm, vibration
VABG	Valve, gate, aeration basin
VAV	Variable air volume box
VB	Valve, block
VBG	Valve, burner, gas
VBH	Valve, block, hydrant
VBO	Valve, burner, oil
VBW	Valve, block, water
VC	Valve, check (historical)
VE	Primary element, vibration
VENT	Vent
VEQG	Valve, gate, equalization basin
VFD	Drive, variable frequency
VI	Indicator, vibration
VIBI	Vibration isolator
VIS	Switch, indicating, vibration
VIT	Transmitter, indicating, vibration
VM	Valve, motor-operated (an MOV)
VM@	Modifier, vibration
VP	Vessel, pressure
VPR	Valve, pressure reducing
VR	Recorder, vibration
VRT	Transmitter, recording, vibration analysis
VS	Switch, vibration
VSH	Switch, vibration, high
VSHL	Switch, vibration, high or low

VSL	Switch, vibration, low
VT	Transmitter, vibration
VY	Relay, vibration analysis
VZ	Final element, vibration analysis
WA	Washer, air
WALL	Wall
WB	Workbench
WC	Control, weight or force
WCR	Cooler, water (including drinking fountains)
WCV	Valve, control, force
WDC	Control, force differential
WDCV	Valve, control, force differential
WDE	Primary element, force differential
WDI	Indicator, force differential
WDIC	Control, indicating, force differential
WDIT	Transmitter, indicating, force differential
WDO	Window (bldg, shield, or vessel)
WDR	Recorder, force differential
WDRC	Control, recording, force differential
WDRT	Transmitter, recording, force differential
WDSH	Switch, force differential, high
WDSL	Switch, force differential, low
WDT	Transmitter, force differential
WDY	Relay, force differential
WDZ	Final element, force differential
WE	Primary element, weight or force
WGS	Weir gate, sludge
WHA	Water hammer arrestor
WI	Indicator, weight or force
WIC	Control, indicating, weight or force
WIS	Switch, indicating, weight or force
WIT	Transmitter, indicating, weight or force
WM	Modifier, weight or force
WP	Penetration, Wall or roof
WR	Recorder, weight or force
WRC	Control, recording, weight or force
WRE	Primary element, wear
WRT	Transmitter, recording, weight or force
WSH	Switch, weight or force, high
WSHL	Switch, weight or force, high or low
WSL	Switch, weight or force, low
WT	Transmitter, weight or force
WW	Wig-wag gate or testing tool
WY	Relay, weight or force
WZ	Final element, weight or force
XA	Alarm, special (incl. refrigerant monitors and fire alarms at TA-55)
XB	Glovebox, introductory/exchange (fume hd leading to GB)
XC	Control, special
XCO	Control operator, special
XE	Primary element, special
XFC	Fill cup, sprinkler standpipe (funnel)
XFMR	Transformer (LV, 480 or less)
XFRD	Transformer, distribution (MV)
XFRP	Transformer, power (HV)
XFRR	Transformer, rectifier
XHS	Pull Station, Fire Alarm (TA-55 only, others use pull box-- pbx)
XI	Indicator, special
XIC	Control, indicating, special
XIK	Control station, indicating, special
XIS	Switch, indicating, special

XIT	Transmitter, indicating, special
XM	Modifier, special
XR	Recorder, special
XRAY	X-ray (security or process)
XRC	Control, recording, special
XRK	Control station, recording, special
XT	Transmitter, special
XTS	Detector, Heat (XTS preferred)
XVAC	Valve, Alarm Check
XVIT	Valve, inspector's test
XVV	Valve, Air Vent
XWVG	Water Motor Gong (flow alarm)
XZS	Switch, tamper (TA-55 only, others use switch, pos -- ZS)
YC	Control, presence or state
YI	Indicator, presence or state
YIC	Control, indicating, presence or state
YR	Recorder, presence or state
YSH	Switch, presence or state, high
YSL	Switch, presence or state, low
YT	Transmitter, presence or state
YY	Relay, presence or state
YZ	Final element, presence or state
ZA	Alarm, zone or position
ZC	Control, zone or position
ZCV	Valve, control, zone or position
ZDC	Control, deviation
ZDCV	Valve, control, deviation
ZDE	Primary element, deviation
ZDI	Indicator, deviation
ZDIC	Control, indicating, deviation
ZDIT	Transmitter, indicating, deviation
ZDR	Recorder, deviation
ZDRC	Control, recording, deviation
ZDRT	Transmitter, recording, deviation
ZDSH	Switch, deviation, high
ZDSL	Switch, deviation, low
ZDT	Transmitter, deviation
ZDV	Final element, deviation
ZDY	Relay, deviation
ZE	Primary element, zone or position
ZI	Indicator, zone or position
ZIC	Control, indicating, zone or position
ZIS	Switch, indicating, zone or position
ZIT	Transmitter, indicating, position
ZM	Modifier, zone or position
ZR	Recorder, position
ZRC	Control, recording, position
ZRT	Transmitter, recording, position
ZS	Switch, position (limit, including tamper or supervisory or supervised)
ZSC	Switch, position (limit), closed (ZSO if open)
ZSH	Switch, position, high
ZSHL	Switch, position, high or low
ZSL	Switch, position, low
ZT	Transmitter, zone or position
ZV	Final element, position
ZY	Relay, position