

Section 230 – Equipment & Component Function IDs

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Attachment 3, ID Sort

The “Discipline” indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.

ID <sort	Description	Ref	Typical Disc
1	Master Element	803.1	EI Utility Dwgs
2	Relay, Time-Delay Starting or Closing	803.1	EI Utility Dwgs
3	Relay, Checking or Interlocking	803.1	EI Utility Dwgs
4	Contactors, Master	803.1	EI Utility Dwgs
5	Device, Stopping	803.1	EI Utility Dwgs
6	Circuit Breaker, Starting	803.1	EI Utility Dwgs
7	Circuit Breaker, Anode	803.1	EI Utility Dwgs
8	Device, Control Power Disconnecting	803.1	EI Utility Dwgs
9	Device, Reversing	803.1	EI Utility Dwgs
10	Switch, Unit Sequence	803.1	EI Utility Dwgs
12	Device, Overspeed	803.1	EI Utility Dwgs
13	Device, Synchronous Speed	803.1	EI Utility Dwgs
14	Device, Underspeed	803.1	EI Utility Dwgs
15	Device, Speed or Frequency Matching	803.1	EI Utility Dwgs
17	Switch, Shunting or Discharge	803.1	EI Utility Dwgs
19	Contactors, Starting-To-Running Transition	803.1	EI Utility Dwgs
20	Valve, Electrically Operated	803.1	EI Utility Dwgs
21	Relay, Distance	803.1	EI Utility Dwgs
22	Circuit Breaker, Equalizer	803.1	EI Utility Dwgs
23	Device, Temperature Control	803.1	EI Utility Dwgs
24	Relay, Static Breaker Failure	803.1	EI Utility Dwgs
25	Synchronizing or Synchronism-Check Drive	803.1	EI Utility Dwgs
26	Device, Apparatus Thermal	803.1	EI Utility Dwgs
27	Relay, Undervoltage	803.1	EI Utility Dwgs
28	Detector, Flame	803.1	EI Utility Dwgs
29	Contactors, Isolating	803.1	EI Utility Dwgs
30	Relay, Annunciator	803.1	EI Utility Dwgs
31	Device, Separate Excitation	803.1	EI Utility Dwgs
32	Relay, Directional Power	803.1	EI Utility Dwgs
33	Switch, Position	803.1	EI Utility Dwgs
34	Device, Master Sequence	803.1	EI Utility Dwgs
35	Device, Brush-Operating or Slip-Ring Short Circuiting	803.1	EI Utility Dwgs
36	Device, Polarity or Polarizing Voltage	803.1	EI Utility Dwgs
37	Relay, Undercurrent or Underpower	803.1	EI Utility Dwgs
38	Device, Bearing Protective	803.1	EI Utility Dwgs
39	Monitor, Mechanical, Condition	803.1	EI Utility Dwgs
40	Relay, Field	803.1	EI Utility Dwgs
41	Circuit Breaker, Field	803.1	EI Utility Dwgs
42	Circuit Breaker, Running	803.1	EI Utility Dwgs
43	Device, Manual Trans/Select	803.1	EI Utility Dwgs
44	Relay, Unit Sequence Starting	803.1	EI Utility Dwgs

ID <sort	Description	Ref	Typical Disc
45	Monitor, Atmospheric Condition	803.1	EI Utility Dwgs
46	Relay, Phase-Balance Current or Reverse-Phase	803.1	EI Utility Dwgs
47	Relay, Phase-Sequence Voltage	803.1	EI Utility Dwgs
48	Relay, Incomplete Sequence	803.1	EI Utility Dwgs
49	Relay, Machine or Transformer Thermal	803.1	EI Utility Dwgs
50	Relay, Instantaneous Overcurrent (OC)	803.1	EI Utility Dwgs
51	Relay, AC Time Overcurrent	803.1	EI Utility Dwgs
52	Circuit Breaker, AC	803.1	EI Utility Dwgs
53	Relay, Exciter or DC Generator	803.1	EI Utility Dwgs
55	Relay, Power Factor	803.1	EI Utility Dwgs
56	Relay, Field Application	803.1	EI Utility Dwgs
57	Device, Short-Circuiting or Grounding	803.1	EI Utility Dwgs
58	Relay, Rectifier Failure	803.1	EI Utility Dwgs
59	Relay, Overvoltage	803.1	EI Utility Dwgs
60	Relay, Voltage or Current Balance	803.1	EI Utility Dwgs
61	Relay, Current Balance	803.1	EI Utility Dwgs
62	Relay, Time-Delay Starting or Closing	803.1	EI Utility Dwgs
63	Switch, Pressure	803.1	EI Utility Dwgs
64	Relay, Ground Detector (Not CT Secondary)	803.1	EI Utility Dwgs
65	Governor	803.1	EI Utility Dwgs
66	Device, Notching or Jogging	803.1	EI Utility Dwgs
67	Relay, AC Directional Overcurrent	803.1	EI Utility Dwgs
68	Relay, Blocking	803.1	EI Utility Dwgs
69	Control Device, Permissive	803.1	EI Utility Dwgs
70	Rheostat	803.1	EI Utility Dwgs
71	Switch, Level	803.1	EI Utility Dwgs
72	Circuit Breaker, DC	803.1	EI Utility Dwgs
73	Contactors, Load-Resistor	803.1	EI Utility Dwgs
74	Relay, Alarm	803.1	EI Utility Dwgs
75	Mechanism, Position Changing	803.1	EI Utility Dwgs
76	Relay, DC Overcurrent	803.1	EI Utility Dwgs
77	Transmitter, Pulse	803.1	EI Utility Dwgs
78	Relay, Out-of-Step Protective Phase-Angle Measuring	803.1	EI Utility Dwgs
79	Relay, AC Reclosing	803.1	EI Utility Dwgs
80	Switch, Flow	803.1	EI Utility Dwgs
81	Relay, Frequency	803.1	EI Utility Dwgs
82	Relay, DC Reclosing	803.1	EI Utility Dwgs
83	Relay, Automatic Selective Control or Transfer	803.1	EI Utility Dwgs
84	Operating Mechanism	803.1	EI Utility Dwgs
85	Relay, Carrier/Pilot-Wire Receiver	803.1	EI Utility Dwgs
86	Relay, Locking-Out	803.1	EI Utility Dwgs
87	Relay, Differential Protective	803.1	EI Utility Dwgs
88	Generator, Auxiliary Motor or Motor	803.1	EI Utility Dwgs
89	Switch, Line	803.1	EI Utility Dwgs
90	Regulating Device	803.1	EI Utility Dwgs
91	Relay, Voltage Directional	803.1	EI Utility Dwgs

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ID <sort	Description	Ref	Typical Disc
92	Relay, Voltage and Power Directional	803.1	EI Utility Dwgs
93	Contactors, Field Changing	803.1	EI Utility Dwgs
94	Relay, Tripping	803.1	EI Utility Dwgs
95	Relay, Phase Discordance Handling Unit	803.1	EI Utility Dwgs
18A	Device, Accelerating	803.1	EI Utility Dwgs
18D	Device, Decelerating	803.1	EI Utility Dwgs
AA	Alarm, analyzer	5.1	I&C
AC	Control, analyzer	5.1	I&C
ACL	After cooler	LANL	Mech
ACO	Control operator, analyzer	803.1	I&C
ACR	Air conditioner, refrigerant	LANL	Mech
ACTR	Actuator	ASME	Mech
AE	Primary element, analyzer	5.1	I&C
AES	Air-ejector, steam	LANL	Mech
AFD	Actuator, fire device	LANL	Fire Prot
AFP	Argus Field Panel	LANL	Security
AGA	Alarm, combustible gas	LANL	I&C
AGT	Agitator	803.1	Mech
AI	Indicator, analyzer	5.1	I&C
AIC	Control, indicating, analyzer	5.1	I&C
AIK	Control station, indicating, analyzer	5.1	I&C
AIR	Recorder, indicating, analyzer	5.1	I&C
AIS	Switch, indicating, analyzer	5.1	I&C
AIT	Transmitter, indicating, analyzer	5.1	I&C
AITs	Switch, transmitting, indicating, analyzer	5.1	I&C
ALC	Alarm, carbon monoxide	LANL	I&C
AM	Modifier, analyzer	5.1	I&C
AMP	Meter, ammeter	LANL	M&TE
AOBV	Valve, ball, air-operated	LANL	Mech
AP	Test point, analyzer	5.1	I&C
AR	Recorder, analyzer	5.1	I&C
ARC	Control, recording, analyzer	5.1	I&C
ARK	Control station, recording, analyzer	5.1	I&C
ART	Transmitter, recording, analyzer	5.1	I&C
AS	Switch, analyzer	5.1	I&C
ASE	Air sampler, exhaust stack	LANL	Mech
ASH	Switch, analyzer, high	5.1	I&C
ASHL	Switch, analyzer, high or low	5.1	I&C
ASL	Switch, analyzer, low	5.1	I&C
AT	Transmitter, analyzer	5.1	I&C
ATS	Switch, transfer, automatic	1100	Elec
ATT	Attenuator – sound, etc.	803.1	Mech
AV	Final element, analyzer	5.1	I&C
AW	Well, analyzer	5.1	I&C
AY	Relay, analyzer	5.1	I&C
BAL	Balance	ASME	M&TE
BB	Battery, banked	LANL	Elec
BC	Control, burner	5.1	I&C
BE	Primary element, burner	5.1	I&C
BFP	Backflow preventer	803.1	Mech
BG	Sight glass, burner	5.1	I&C
BHW	Boiler, hot water	LANL	Mech
BI	Indicator, burner	5.1	I&C
BIC	Control, indicating, burner	5.1	I&C
BIK	Control station, indicating,	5.1	I&C

ID <sort	Description	Ref	Typical Disc
	burner		
BIT	Transmitter, indicating, burner	5.1	I&C
BL	Blower	LANL	Mech
BLDG	Buildings; transportables	803.1	C/S/Arch
BP	Test point, burner	5.1	I&C
BR	Recorder, burner	5.1	I&C
BRC	Control, recording, burner	5.1	I&C
BRT	Transmitter, recording, burner	5.1	I&C
BS	Boiler, steam	LANL	Mech
BSH	Switch, burner, high	5.1	I&C
BSHL	Switch, burner, high low	5.1	I&C
BSL	Switch, burner, low	5.1	I&C
BT	Transmitter, burner	5.1	I&C
BTRY	Battery or battery box	803.1	Elec
BV	Blower, vacuum	LANL	Mech
BVT	Valve, ball, trunion	LANL	Mech
BW	Well, burner	5.1	I&C
BWS	Boiler, water supply	LANL	Mech
BY	Relay, burner	5.1	I&C
BZ	Final element, burner	5.1	I&C
CA	Compressor, air	LANL	Mech
CA@	Alarm, conductivity	5.1mod	I&C
CAE	Cooler, air, evaporative	LANL	Mech
CAM	Monitor, continuous air	LANL	I&C
CAP	Capacitor, non-pad mounted	803	Elec
CAW	Cooler, air, water	LANL	Mech
CB	Charger, battery	LANL	Elec
CBA	Circuit breaker, air (MV or HV)	LANL	Elec
CBE	Circuit breaker, enclosed (NEMA AB 1 type)	LANL	Elec
CBG	Circuit breaker, gas (MV or HV)	LANL	Elec
CBO	Circuit breaker, oil (MV or HV)	LANL	Elec
CBT	Test set, relay, overload, and or circuit breaker	LANL	M&TE
CBV	Circuit breaker, vacuum (MV or HV)	LANL	Elec
CC	Control, conductivity	5.1	I&C
CCE	Coil, cooling, evaporative	LANL	Mech
CCG	Coil, cooling, glycol	LANL	Mech
CCL	Coil, cooling	803.1	Mech
CCO	Control operator, conductivity	803.1	I&C
CD	Collector, dust	LANL	Shop
CDD	Disconnect, circuit	LANL	Elec
CE	Primary element, conductivity	5.1	I&C
CEO	Circuit, electric, overhead	LANL	Elec
CEU	Circuit, electric, underground	LANL	Elec
CI	Indicator, conductivity	5.1	I&C
CIC	Control, indicating, conductivity	5.1	I&C
CIK	Control station, indicating, conductivity	5.1	I&C
CIS	Switch, indicating, conductivity	5.1	I&C
CIT	Transmitter, indicating, conductivity	5.1	I&C
CJ	Crane, jib	LANL	C/S/Arch

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ID <sort	Description	Ref	Typical Disc
CM	Crane, monorail	LANL	C/S/Arch
CM@	Modifier, conductivity	5.1mod	I&C
CNTR	Contactors	803.1	Elec
CO	Cleanout	ASPE	Mech
CP	Controller, pneumatic	LANL	I&C
CPF	Controller, pneumatic, flow	LANL	I&C
CPL	Panel, control	LANL	I&C
CPMD	Capacitor, pad mounted	LANL	Elec
CPU	Central processing unit (computer)	803.1	I&C
CR	Compressor, refrigerant	LANL	Mech
CR@	Recorder, conductivity	5.1mod	I&C
CRA	Condenser, refrigerant, air-cooled	LANL	Mech
CRANE	Crane, tires/motor	LANL	Shop
CRC	Control, recording, conductivity	5.1	I&C
CRE	Condenser, refrigerant, evaporative	LANL	Mech
CRK	Control station, recording, conductivity	5.1	I&C
CRU	Condensate recovery unit	LANL	Mech
CRT	Tube, cathode ray	803.1	M&TE
CS	Crane, shop	LANL	C/S/Arch
CS@	Switch, conductivity	5.1mod	I&C
CT	Transmitter, conductivity	5.1	I&C
CTE	Condenser, turbine exhaust	LANL	Mech
CTG	Crane, gantry	LANL	C/S/Arch
CTO	Crane, bridge	LANL	C/S/Arch
CVVR	Conveyor	803.1	Mech
CW	Column, water	LANL	Mech
CWA	Chiller, water, absorption	LANL	Mech
CWE	Chiller, water, evaporative	LANL	Mech
CWR	Chiller, water, refrigerant	LANL	Mech
DAB	Diffuser, aeration basin	LANL	Mech
DAC	Door, air curtain	LANL	C/S/Arch
DAD	Dryer, air, desiccant	LANL	Mech
DAR	Dryer, air, refrigerant	LANL	Mech
DB	Bus duct (aboveground)	LANL	Elec
DBX	Box, drop	LANL	Mech
DF	Damper, fire	LANL	Fire Prot
DFL	Drive, fluid	LANL	Mech
DGRS	Regulator, gas, district	LANL	Mech
DHM	Dehumidifier	LANL	Mech
DHO	Disconnect, hand-operated	LANL	Elec
DM	Door, motorized	LANL	C/S/Arch
DMN	Demineralizer	LANL	Mech
DMO	Disconnect, motor operated	LANL	Elec
DMP	Damper	803.1	Mech
DNZ	Water unit, deionized	LANL	Mech
DP	Press, drill	LANL	Shop
DR	Door	803.1	C/S/Arch
DRE	Door, roll-up, electric	LANL	C/S/Arch
DRH	Door, roll-up, hydraulic	LANL	C/S/Arch
DRM	Door, roll-up, manual	LANL	C/S/Arch
DRN	Drain	803.1	Mech
DS	Damper, smoke	LANL	Fire Prot
DSH	Desuperheater	LANL	Mech
DUCT	Duct	803.1	Mech
DW	Dumbwaiter	ASME	C/S/Arch
DWS	Water softener	LANL	Mech
EA	Alarm, voltage	5.1	I&C

ID <sort	Description	Ref	Typical Disc
EC	Control, voltage	5.1	I&C
EE	Elevator, electric	LANL	C/S/Arch
EE@	Primary element, voltage	5.1mod	I&C
EG	Electro corrector, gas	LANL	M&TE
EH	Elevator, hydraulic	LANL	C/S/Arch
EI	Indicator, voltage	5.1	I&C
EIC	Control, indicating, voltage	5.1	I&C
EIK	Control station, indicating, voltage	5.1	I&C
EIS	Switch, indicating, voltage	5.1	I&C
EIT	Transmitter, indicating, voltage	5.1	I&C
EM	Modifier, voltage	5.1	I&C
ENG	Engine	803.1	Mech
EP	Panel, emergency power	LANL	Elec
EQ	Totalizer, voltage	5.1	I&C
ER	Recorder, voltage	5.1	I&C
ERC	Control, recording, voltage	5.1	I&C
ERT	Transmitter, recording, voltage	5.1	I&C
ES	Stack, exhaust	LANL	C/S/Arch
ESH	Switch, voltage, high	5.1	I&C
ESHL	Switch, voltage, high or low	5.1	I&C
ESL	Switch, voltage, low	5.1	I&C
ESS	Equipment, surveillance	LANL	I&C
ET	Transmitter, voltage	5.1	I&C
EW	Eyewash	LANL	Mech
EWM	Welder, electric	LANL	Shop
EXC	Exciter	803	Elec
EXC	Exciter, generator	LANL	Elec
EXS	Extinguishing system, gaseous or halon	LANL	Fire Prot
EXT	Extinguisher, fire	LANL	Fire Prot
EY	Relay, voltage	5.1	I&C
EZ	Final element, voltage	5.1	I&C
FA	Alarm, flow	5.1	I&C
FAB	Filter, air, bag or box	LANL	Mech
FAC	Filter, air, cleanable	LANL	Mech
FAF	Filter, air, fire	LANL	Mech
FAH	Filter, air, HEPA	LANL	Mech
FAL	Filter, air, charcoal	LANL	Mech
FAM	Filter, air, mat	LANL	Mech
FAN	Fan	803.1	Mech
FAP	Filter, air, pad	LANL	Mech
FAR	Filter, air, roughing	LANL	Mech
FB	Fan, booster	LANL	Mech
FC	Fan, circulating	LANL	Mech
FC@	Control, flow	5.1mod	I&C
FCD	Fan, condenser	LANL	Mech
FCO	Control operator, flow	803.1	I&C
FCP	Control panel, fire	170	Fire Prot
FCPB	Battery, fire control panel	LANL	Fire Prot
FCT	Fan, cooling tower	LANL	Mech
FCU	Fan coil unit	803.1	Mech
FCV	Valve, control, flow	5.1	Mech
FD	Drain, floor	ASME	Mech
FDC	Door, fire, structural	LANL	Fire Prot
FDC@	Fire Department Connection	170mod	Fire Prot
FDE	Door, fire, electrical	LANL	Fire Prot
FDL	Door, fire, mechanical	LANL	Fire Prot
FE	Fan, exhaust	LANL	Mech
FE@	Primary element, flow	5.1mod	I&C

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ID <sort	Description	Ref	Typical Disc
FEH	Fume hood, exhaust	LANL	Mech
FEN	Fence	LANL	C/S/Arch
FES	Filter, air, electrostatic	LANL	Mech
FFC	Control, flow, ratio	5.1	I&C
FFI	Indicator, flow, ratio	5.1	I&C
FFIC	Control, indicating, flow ratio	5.1	I&C
FFM	Modifier, flow, ratio	5.1	I&C
FFR	Recorder, flow, ratio	5.1	I&C
FFRC	Control, recording, flow, ratio	5.1	I&C
FFS	Switch, flow, ratio	5.1	I&C
FFSH	Switch, flow, ratio, high	5.1	I&C
FFSL	Switch, flow, ratio, low	5.1	I&C
FFT	Transmitter, flow, ratio	5.1	I&C
FFV	Final element, flow, ratio	5.1	I&C
FG	Sight glass, flow	5.1	I&C
FGF	Furnace, gas fired	LANL	Mech
FH	Fume hood	LANL	Mech
FI	Indicator, flow	5.1	I&C
FIC	Control, indicating, flow	5.1	I&C
FICV	Valve, control, indicating, flow	5.1	Mech
FIK	Control station, indicating, flow	5.1	I&C
FIS	Switch, indicating, flow	5.1	I&C
FIT	Transmitter, indicating, flow	5.1	I&C
FLT	Filter (water etc.)	803.1	Mech
FM	Modifier, flow	5.1	I&C
FO	Filter, oil	LANL	Mech
FP	Test point, flow	5.1	I&C
FPE	Fall protection equipment	LANL	C/S/Arch
FQ	Totalizer, flow	5.1	I&C
FQE	Primary element, flow, quantity	5.1	I&C
FQI	Indicator, flow, totalized	5.1	I&C
FQIC	Control, indicating, flow, quantity	5.1	I&C
FQIS	Switch, indicating, totalizing, flow	5.1	I&C
FQIT	Transmitter, indicating, flow, quantity	5.1	I&C
FQM	Modifier, flow, totalizer	5.1	I&C
FQR	Recorder, flow, totalized	5.1	I&C
FQRC	Control, recording, flow, quantity	5.1	I&C
FQS	Switch, flow, totalized	5.1	I&C
FQSH	Switch, flow, quantity, high	5.1	I&C
FQSL	Switch, flow, quantity, low	5.1	I&C
FQT	Transmitter, flow, totalizer	5.1	I&C
FQV	Final element, flow, quantity	5.1	I&C
FQY	Relay, flow, quantity	5.1	I&C
FR	Recorder, flow	5.1	I&C
FRA	Fan, return, air	LANL	Mech
FRC	Control, recording, flow	5.1	I&C
FRK	Control station, recording, flow	5.1	I&C
FRKLFT	Forklift	LANL	Mobile Eq
FRL	Filter, roll	LANL	Mech
FRT	Transmitter, recording, flow	5.1	I&C
FS	Fan, supply	LANL	Mech
FS@	Switch, flow	5.1mod	I&C
FSH	Switch, flow, high	5.1	I&C
FSHL	Switch, flow, high or low	5.1	I&C
FSL	Switch, flow, low	5.1	I&C

ID <sort	Description	Ref	Typical Disc
FT	Transmitter, flow	5.1	I&C
FTB	Field termination box	LANL	Security
FV	Final element, flow, rate	5.1	I&C
FY	Relay, flow, rate	5.1	I&C
GB	Box, glove	LANL	Mech
GDE	Generator, diesel engine	LANL	Elec
GE	Gate, electric	LANL	C/S/Arch
GH	Gate, hydraulic	LANL	C/S/Arch
GI	Indicator, ground	5.1	I&C
GNE	Generator, natural gas engine	LANL	Elec
GNS	Generator, steam driven	LANL	Elec
GRB	Grinder, belt	LANL	Shop
GRBX	Gearbox	ASME	Mech
GRP	Grinder, pedestal	LANL	Shop
GRS	Grinder, surface	LANL	Shop
GT	Trap, grease	LANL	Mech
GX	Tester, balance	LANL	M&TE
GXT	Tester, gas	LANL	M&TE
HAS	Humidifier, air, steam	LANL	Mech
HAW	Humidifier, air, water	LANL	Mech
HC	Control, hand	5.1	I&C
HCL	Coil, heating	803.1	Mech
HCO	Control operator, hand	803.1	I&C
HCP	Control panel, halon	170	Fire Prot
HD	Detector, heat	LANL	Fire Prot
HDA	Heater, deaerating	LANL	Mech
HDG	Heater, duct, gas	LANL	Mech
HE	Hoist, electric	LANL	C/S/Arch
HFH	Heater, feed water, high-pressure	LANL	Mech
HFI	Heater, feed water, intermediate-pressure	LANL	Mech
HFL	Heater, feed water, low-pressure	LANL	Mech
HIC	Control, indicating, hand	5.1	I&C
HIS	Switch, indicating, hand	5.1	I&C
HM	Hoist, manual	LANL	C/S/Arch
HP	Hoist, pneumatic	LANL	C/S/Arch
HPU	Power unit, hydraulic	LANL	Mech
HS	Switch, hand	5.1	I&C
HSE	Heater unit, air, steam-electric	LANL	Mech
HUE	Heater unit, air, electric	LANL	Mech
HUG	Heater unit, air, gas	LANL	Mech
HUI	Heater unit, air, infrared	LANL	Mech
HUS	Heater unit, air, steam	LANL	Mech
HUW	Heater unit, air, water	LANL	Mech
HV	Heating, ventilation unit	LANL	Mech
HV@	Final element, hand	5.1mod	I&C
HVA	Heating, ventilation, air conditioning unit	LANL	Mech
HVYEQ	Equipment, Heavy	LANL	Shop
HWE	Heater, water, electric	LANL	Mech
HWG	Heater, water, gas	LANL	Mech
HWS	Heater, water, steam	LANL	Mech
HX	Heat exchanger	803.1	Mech
HXG	Heat exchanger, glycol	LANL	Mech
HXO	Heat exchanger, oil	LANL	Mech
HXR	Heat exchanger, refrigerant	LANL	Mech
HXS	Heat exchanger, steam	LANL	Mech
HXW	Heat exchanger, water	LANL	Mech

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ID <sort	Description	Ref	Typical Disc
HYD	Hydrant	803.1	Fire Prot
IA	Alarm, current	5.1	I&C
IC	Control, current	5.1	I&C
IE	Primary element, current	5.1	I&C
II	Indicator, current	5.1	I&C
IIC	Control, indicating, current	5.1	I&C
IIK	Control station, indicating, current	5.1	I&C
IIS	Switch, indicating, current	5.1	I&C
IIT	Transmitter, indicating, current	5.1	I&C
IM	Modifier, current	5.1	I&C
IMM	Ice maker machine	LANL	C/S/Arch
IQ	Totalizer, current	5.1	I&C
IR	Recorder, current	5.1	I&C
IRC	Control, recording, current	5.1	I&C
IRT	Transmitter, recording, current	5.1	I&C
IS	Switch, current	5.1	I&C
ISH	Switch, current, high	5.1	I&C
ISHL	Switch, current, high or low	5.1	I&C
ISL	Switch, current, low	5.1	I&C
IT	Transmitter, current	5.1	I&C
IY	Relay, current	5.1	I&C
IZ	Final element, current	5.1	I&C
JA	Alarm, power	5.1	I&C
JC	Control, power	5.1	I&C
JCP	Jet, condenser, priming	LANL	Mech
JE	Primary element, power	5.1	I&C
JI	Indicator, power	5.1	I&C
JIC	Control, indicating, power	5.1	I&C
JIK	Control station, indicating, power	5.1	I&C
JIT	Transmitter, indicating, power	5.1	I&C
JM	Modifier, power	5.1	I&C
JQR	Recorder, power, totalizing (incl watt-hr mtr)	5.1	I&C
JR	Recorder, power	5.1	I&C
JRC	Control, recording, power	5.1	I&C
JRT	Transmitter, recording, power	5.1	I&C
JS	Switch, power	5.1	I&C
JSH	Switch, power, high	5.1	I&C
JSHL	Switch, power, high or low	5.1	I&C
JSL	Switch, power, low	5.1	I&C
JT	Transmitter, power	5.1	I&C
JV	Final element, power	5.1	I&C
JWHQ	Totalizer, power, watt-hour	5.1	I&C
JWHT	Transmitter, power, watt-hour	5.1	I&C
JX	Power supply, electric	5.1	I&C
JY	Relay, power	5.1	I&C
KC	Control, time	5.1	I&C
KCV	Valve, control, timed	5.1	Mech
KE	Primary element, time	5.1	I&C
KI	Indicator, time	5.1	I&C
KIC	Control, indicating, time	5.1	I&C
KIS	Switch, indicating, time	5.1	I&C
KIT	Transmitter, indicating, time	5.1	I&C
KQ	Totalizer, time	5.1	I&C
KQI	Indicator, time, totalized	5.1	I&C
KQT	Transmitter, time, totalized	5.1	I&C

ID <sort	Description	Ref	Typical Disc
KR	Recorder, time	5.1	I&C
KRC	Control, recording, time	5.1	I&C
KRT	Transmitter, recording, time	5.1	I&C
KS	Switch, timer	5.1	I&C
KSH	Switch, time, high	5.1	I&C
KSHL	Switch, time, high or low	5.1	I&C
KSL	Switch, time, low	5.1	I&C
KT	Transmitter, time	5.1	I&C
KV	Valve, key, natural gas	LANL	Mech
KV@	Final element, time	5.1mod	I&C
KY	Relay, time	5.1	I&C
LA	Alarm, level	5.1	I&C
LADR	Ladder	803	C/S/Arch
LAT	Lathe	LANL	Shop
LB	Isolator, level	803.1	Mech
LC	Control, level	5.1	I&C
LCO	Control operator, level	803.1	I&C
LCV	Valve, control, level	5.1	Mech
LDC	Load cell	803.1	M&TE
LDR	Loader, front	LANL	Mobile Eq
LE	Primary element, level	5.1	I&C
LEP	Lift, platform, electric	LANL	Mobile Eq
LET	Line, electric, transmission	LANL	Elec Utility
LF	Lighting fixtures	803.1	Elec
LG	Sight glass, level	5.1	I&C
LI	Indicator, level	5.1	I&C
LIC	Control, indicating, level	5.1	I&C
LIL	Interlock, laser	LANL	I&C
LIS	Switch, indicating, level	5.1	I&C
LIT	Transmitter, indicating, level	5.1	I&C
LM	Modifier, level	5.1	I&C
LME	Lift, materials, electric	LANL	Mobile Eq
LMF	Lock, metal former	LANL	Shop
LMH	Lift, materials, hydraulic	LANL	Mobile Eq
LMM	Lift, materials, mobile	LANL	Mobile Eq
LMP	Lift, materials, pneumatic	LANL	Mobile Eq
LN	Lighting, incandescent	LANL	Elec
LP	Panel, lighting	100	Elec
LPE	Lift, personnel, electric	LANL	Mobile Eq
LPG	Lift, personnel, gasoline	LANL	Mobile Eq
LPH	Lift, personnel, hydraulic	LANL	Mobile Eq
LPP	Lift, personnel, pneumatic	LANL	Mobile Eq
LPT	Lightning protection	LANL	Elec
LR	Recorder, level	5.1	I&C
LRC	Control, recording, level	5.1	I&C
LRK	Control station, recording, level	5.1	I&C
LRT	Transmitter, recording, level	5.1	I&C
LS	Switch, level	5.1	I&C
LSH	Switch, level, high	5.1	I&C
LSHL	Switch, level, high or low	5.1	I&C
LSL	Switch, level, low	5.1	I&C
LSS	Light, street	LANL	Elec
LT	Transmitter, level	5.1	I&C
LTE	Light, emergency	LANL	Elec
LTET	Light, exit, tritium	LANL	Elec
LTNT	Light, exit, non-tritium	LANL	Elec
LUV	Light, ultraviolet (e.g., sterilization)	LANL	Mech
LV	Final element, level	5.1	I&C
LVPCB	Circuit breaker, low voltage	1015	Elec
LW	Well, level	5.1	I&C

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Attachment 3, ID Sort

ID <sort	Description	Ref	Typical Disc
LWI	Lift, wheelchair, inclined	LANL	C/S/Arch
LWV	Lift, wheelchair, vertical	LANL	C/S/Arch
LY	Relay, level	5.1	I&C
MA	Alarm, moisture	5.1	I&C
MACH	Machine	ASME	Mech
MANF	Manifold	ASME	Mech
MC	Mixer, chemical	LANL	Mech
MC@	Control, moisture	5.1mod	I&C
MCC	Motor control center	803.1	Elec
MDS	Disinfection system, mixed-oxidant	LANL	Mech
ME	Primary element, moisture	5.1	I&C
MG	Generator, motor	803.1	Elec
MGD	Meter, gas, district	LANL	Mech
MGR	Meter, gas, revenue	LANL	Mech
MHE	Manhole, electric	LANL	C/S/Arch
MHS	Manhole, steam	LANL	C/S/Arch
MHT	Meter, humidity or temperature	LANL	I&C
MI	Indicator, moisture	5.1	I&C
MIC	Control, indicating, moisture	5.1	I&C
MIK	Control station, indicating, moisture	5.1	I&C
MIS	Switch, indicating, moisture	5.1	I&C
MISC	Miscellaneous (must get ESM Ch 1 POC apprvl)	ASME	All
MIT	Transmitter, indicating, moisture	5.1	I&C
MM	Milling machine	LANL	Shop
MM@	Modifier, moisture	5.1mod	I&C
MMD	Meter, multimeter, digital	LANL	M&TE
MMO	Meter, megohm	LANL	M&TE
MNC	Mill, numeric control	LANL	Shop
MO	Motor	803.1	Elec
MPH	Meter, pH	LANL	M&TE
MR	Recorder, moisture	5.1	I&C
MRC	Control, recording, moisture	5.1	I&C
MS	Valve, main steam	LANL	Mech
MS@	Switch, moisture	5.1mod	I&C
MSTR	Starter, motor	803.1	Elec
MT	Transmitter, moisture	5.1	I&C
MTR	Meter	803.1	I&C
MTS	Switch, transfer, manual	100	Elec
MW	Meter, water	LANL	I&C
MWW	Manhole, waste water	LANL	C/S/Arch
NAA	Notification appliance, audio	LANL	Fire Prot
NAAV	Notification appliance, audio visual	LANL	Fire Prot
NAV	Notification appliance, visual	LANL	Fire Prot
NGN	Bottle, nitrogen	LANL	Mech
NGRS	Regulator, natural gas	LANL	Mech
OI	Analyzer, oxygen	5.1	I&C
OIA	Alarm, oxygen, indicating	5.1	I&C
OPG	Orifice plate, gas	LANL	Mech
OSY	Valve, Outside Screw & Yoke	ASME	Fire Prot
OVEN	Oven	LANL	Mech
P	Pump	803.1	Mech
PA	Alarm, pressure	5.1	I&C
PAC	Pump, acid or chemical	LANL	Mech
PBF	Pump, boiler feed	LANL	Mech
PBX	Box, pull	803.1	Fire Prot
PC	Pump, condensate	LANL	Mech

ID <sort	Description	Ref	Typical Disc
PC@	Control, pressure	5.1mod	I&C
PCO	Control operator, pressure	803.1	I&C
PCR	Pump, circulating	LANL	Mech
PCT	Pump, cooling tower	LANL	Mech
PCV	Valve, control, pressure	5.1	Mech
PCW	Pump, chilled or cooling water	LANL	Mech
PDA	Alarm, differential pressure	5.1	I&C
PDC	Control, differential pressure	5.1	I&C
PDCO	Control operator, differential pressure	803.1	I&C
PDCV	Valve, control, differential pressure	5.1	Mech
PDE	Primary element, differential pressure	5.1	I&C
PDH	Pump, hot water, domestic (potable)	LANL	Mech
PDI	Indicator, differential pressure	5.1	I&C
PDIC	Control, indicating, differential pressure	5.1	I&C
PDIK	Control station, indicating, differential pressure	5.1	I&C
PDIS	Switch, indicating, differential pressure	5.1	I&C
PDIT	Transmitter, indicating, differential pressure	5.1	I&C
PDM	Modifier, differential pressure	5.1	I&C
PDR	Recorder, differential pressure	5.1	I&C
PDRC	Control, recording, differential pressure	5.1	I&C
PDRK	Control station, recording, differential pressure	5.1	I&C
PDRT	Transmitter, recording, differential pressure	5.1	I&C
PDS	Switch, differential pressure	5.1	I&C
PDSH	Switch, differential pressure, high	5.1	I&C
PDSL	Switch, differential pressure, low	5.1	I&C
PDT	Transmitter, differential pressure	5.1	I&C
PDU	Power distribution unit	1100	Elec
PDV	Final element, differential pressure	5.1	I&C
PDW	Pump, deionized water	LANL	Mech
PDY	Relay, differential pressure	5.1	I&C
PE	Pole, electrical distribution	LANL	Elec
PE@	Primary element, pressure	5.1mod	I&C
PFO	Pump, fuel oil	LANL	Mech
PFP	Pump, fire protection	LANL	Fire Prot
PG	Pump, glycol	LANL	Mech
PH	Press, hydraulic	LANL	Shop
PHE	Primary element, pH	5.1	I&C
PHO	Pump, hydraulic	LANL	Mech
PHW	Pump, hot water	LANL	Mech
PI	Indicator, pressure	5.1	I&C
PIC	Control, indicating, pressure	5.1	I&C
PIM	Modifier, indicating, pressure	5.1	I&C
PIS	Switch, indicating, pressure	5.1	I&C
PIT	Transmitter, indicating, pressure	5.1	I&C

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ID <sort	Description	Ref	Typical Disc
PIV	Valve, post indicating	LANL	Fire Prot
PIVA	Valve, post indicating, annunciated	LANL	Fire Prot
PLC	Controller, programmable logic	ASME	I&C
PM	Modifier, pressure	5.1	I&C
PMG	Generator, permanent magnet	803.1	Elec
PO	Pump, oil	LANL	Mech
PP	Panel, power	100	Elec
PP@	Test point, pressure	5.1mod	I&C
PPB	Pump, pressure, boosting	LANL	Mech
PPDC	Panel, power, direct current	LANL	Elec
PR	Relay, protective	LANL	Elec
PR@	Recorder, pressure	5.1mod	I&C
PRC	Control, recording, pressure	5.1	I&C
PRT	Transmitter, recording, pressure	5.1	I&C
PRV	Valve, relief, pressure (liquid service)	LANL	Mech
PS	Pump, sump	LANL	Mech
PS@	Switch, pressure	5.1mod	I&C
PSA	Pump, sampler air	LANL	Mech
PSD	Phase shifting device	803.1	Elec
PSE	Safety device, pressure	5.1	Mech
PSH	Switch, pressure, high	5.1	I&C
PSHL	Switch, pressure, high or low	5.1	I&C
PSL	Switch, pressure, low	5.1	I&C
PSR	Pump, sewage, raw	LANL	Mech
PSV	Valve, safety, pressure (steam-air-gas service)	5.1	Mech
PSW	Pump, sealant water	LANL	Mech
PSX	Hose	LANL	Mech
PT	Transmitter, pressure	5.1	I&C
PTW	Pump, tempered water	LANL	Mech
PV	Pump, vacuum	LANL	Mech
PV@	Final element, pressure	5.1mod	I&C
PWS	Pump, water spray	LANL	Mech
PWT	Pump, waste treatment	LANL	Mech
PY	Relay, pressure	5.1	I&C
QE	Primary element, quantity	5.1	I&C
QI	Indicator, quantity	5.1	I&C
QIC	Control, indicating, quantity	5.1	I&C
QIT	Transmitter, indicating, quantity	5.1	I&C
QR	Recorder, quantity	5.1	I&C
QRC	Control, recording, quantity	5.1	I&C
QRT	Transmitter, recording, quantity	5.1	I&C
QSH	Switch, quantity, high	5.1	I&C
QSHL	Switch, quantity, high or low	5.1	I&C
QSL	Switch, quantity, low	5.1	I&C
QT	Transmitter, quantity	5.1	I&C
QY	Relay, quantity	5.1	I&C
QZ	Final element, quantity	5.1	I&C
RA	Alarm, radiation	5.1	I&C
RBE	Road-block, electric	LANL	C/S/Arch
RBH	Road-block, hydraulic	LANL	C/S/Arch
RC	Control, radiation	5.1	I&C
RDR	Reader	803.1	I&C
RE	Detector, radiation	5.1	I&C
RECT	Rectifier	803.1	Elec
REG	Regulator, gas bottle	LANL	Mech

ID <sort	Description	Ref	Typical Disc
RGNG	Rigging (slings, shackles, etc)	ASME	C/S/Arch
RI	Indicator, radiation	5.1	I&C
RIC	Control, indicating, radiation	5.1	I&C
RIS	Switch, indicating, radiation	5.1	I&C
RIT	Transmitter, indicating, radiation	5.1	I&C
RLT	Alarm, access, red-light	LANL	I&C
RM	Modifier, radiation	5.1	I&C
RMF	Roller, metal forming	LANL	Shop
ROU	Reverse osmosis unit	803.1	Mech
RPD	Rupture disc	803.1	Mech
RPG	Regulator, pressure, gas	LANL	Mech
RPP	Road & park lots, paved	LANL	C/S/Arch
RPW	Regulator, pressure, water	LANL	Mech
RR	Recorder, radiation	5.1	I&C
RRC	Control, recording, radiation	5.1	I&C
RRT	Transmitter, recording, radiation	5.1	I&C
RS	Roof section	LANL	C/S/Arch
RSH	Switch, radiation, high	5.1	I&C
RSHL	Switch, radiation, high or low	5.1	I&C
RSL	Switch, radiation, low	5.1	I&C
RT	Transmitter, radiation	5.1	I&C
RTU	Remote terminal unit	LANL	I&C
RUA	Refrigeration unit, air	LANL	Mech
RUP	Road & park lots, unpaved	LANL	C/S/Arch
RV	Regulator, voltage	LANL	Elec
RVS	Valve, regulator, steam	LANL	Mech
RW	Well, radiation	5.1	I&C
RY	Relay, radiation	5.1	I&C
RZ	Final element, radiation	5.1	I&C
S	Siren	LANL	I&C
SA	Alarm, speed	5.1	I&C
SAW	Saw	LANL	Shop
SB	Screen, bar, mechanical	LANL	Mech
SBL	Sand blaster	LANL	Shop
SC	Control, speed	5.1	I&C
SCBA	Self Contained Breathing Apparatus	LANL	Mech
SCO	Control operator, speed	803.1	I&C
SCR	Strainer	LANL	Mech
SCV	Valve, control, speed	5.1	Mech
SD	Sander	LANL	Shop
SE	Primary element, speed	5.1	I&C
SEP	Separator	803.1	Mech
SESE	Primary element, seismic	5.1	I&C
SESR	Recorder, seismic	5.1	I&C
SF	Scrubber, fume	LANL	Mech
SG	Shaker, graphite	LANL	Shop
SHD	Shower, decontamination	LANL	Mech
SHS	Shower, safety	LANL	Mech
SI	Indicator, speed	5.1	I&C
SIC	Control, indicating, speed	5.1	I&C
SIK	Control station, indicating, speed	5.1	I&C
SIS	Switch, indicating, speed	5.1	I&C
SIT	Transmitter, indicating, speed	5.1	I&C
SLS	Lift station, sewage	LANL	C/S/Arch
SLW	Slinger, water spray	LANL	Mech
SM	Modifier, speed	5.1	I&C

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ID <sort	Description	Ref	Typical Disc
SMC	Shear, metal cutting	LANL	Shop
SMD	Detector, smoke	LANL	Fire Prot
SMF	Main, force, sewage	LANL	C/S/Arch
SNK	Sink	803.1	Mech
SO	Separator, oil	LANL	Mech
SOV	Valve, solenoid	LANL	Mech
SPA	Sprinkler, preaction	LANL	Fire Prot
SPD	Sprinkler, dry pipe	LANL	Fire Prot
SPF	Sprinkler, anti-freeze	LANL	Fire Prot
SPH	Standpipe	LANL	Fire Prot
SPM	Switch, pad mounted	LANL	Elec
SPW	Sprinkler, wet pipe	LANL	Fire Prot
SR	Recorder, speed	5.1	I&C
SRC	Control, recording, speed	5.1	I&C
SRNK	Sprinkler (head)	803.1	Fire Prot
SRT	Transmitter, recording, speed	5.1	I&C
SS	Switch, speed	5.1	I&C
SSBU	Bus, substation (HV)	803.1	Elec
SSH	Switch, speed, high	5.1	I&C
SSHL	Switch, speed, high or low	5.1	I&C
SSL	Switch, speed, low	5.1	I&C
ST	Switch, transformer	LANL	Elec
ST@	Transmitter, speed	5.1mod	I&C
SUB	Substation (HV)	LANL	Elec
SUS	Substation, unit, secondary	LANL	Elec
SV	Switch, vacuum	LANL	Elec
SV@	Final element, speed	5.1mod	I&C
SWBD	Switchboard (NEMA)	100	Elec
SWGR	Switchgear (ANSI)	803.1	Elec
SY	Relay, speed	5.1	I&C
SYN	Synchroscope	803.1	I&C
SYS	System (the entire OPsystem or subsystem)	ASME	All
TA	Alarm, temperature	5.1	I&C
TAC	Tank, acid or chemical	LANL	Mech
TBL	Table	LANL	Mech
TC	Tower, cooling	LANL	Mech
TC@	Control, temperature	5.1mod	I&C
TCA	Tank, compressed air	LANL	Mech
TCF	Tank, condensate, flash	LANL	Mech
TCI	Tank, chemical injection	LANL	Mech
TCO	Control operator, temperature	803.1	I&C
TCS	Tank, condensate, steam	LANL	Mech
TCV	Valve, control, temperature	5.1	Mech
TCW	Tank, condensate, water	LANL	Mech
TDC	Control, differential temperature	5.1	I&C
TDCV	Valve, control, differential temperature	5.1	Mech
TDI	Indicator, differential temperature	5.1	I&C
TDIC	Control, indicating, differential temperature	5.1	I&C
TDIT	Transmitter, indicating, differential temperature	5.1	I&C
TDM	Modifier, differential temperature	5.1	I&C
TDR	Recorder, differential temperature	5.1	I&C
TDRC	Control, recording, differential temperature	5.1	I&C

ID <sort	Description	Ref	Typical Disc
TDRT	Transmitter, recording, differential temperature	5.1	I&C
TDS	Switch, differential temperature	5.1	I&C
TDSH	Switch, differential temperature, high	5.1	I&C
TDSL	Switch, differential temperature, low	5.1	I&C
TDT	Transmitter, differential temperature	5.1	I&C
TDV	Final element, differential temperature	5.1	I&C
TDY	Relay, differential temperature	5.1	I&C
TE	Primary element, temperature	5.1	I&C
TEL	Telephone	803.1	Other
TELE	Television	803.1	Other
TG	Tank, glycol	LANL	Mech
TH	Thermostat	803.1	I&C
THP	Tank, hydraulic pressure	LANL	Mech
TI	Indicator, temperature	5.1	I&C
TIC	Control, indicating, temperature	5.1	I&C
TIK	Control station, indicating, temperature	5.1	I&C
TIS	Switch, indicating, temperature	5.1	I&C
TIT	Transmitter, indicating, temperature	5.1	I&C
TK	Tank	803.1	Mech
TLA	Tower, electric, PNM LA	LANL	Elec Utility
TM	Modifier, temperature	5.1	I&C
TMP	Tower, electric, PNM MP	LANL	Elec Utility
TNL	Tower, electric, PNM NL	LANL	Elec Utility
TO	Tank, oil	LANL	Mech
TOILET	Toilet	LANL	Shop
TOOL	Tools and tooling	LANL	Shop
TP	Test point, temperature	5.1	I&C
TPWS	Tank, potable water, storage	LANL	Mech
TQS	Screwdriver, torque	LANL	M&TE
TQT	Tester, torque	LANL	M&TE
TQW	Wrench, torque	LANL	M&TE
TR	Recorder, temperature	5.1	I&C
TRC	Tank, refrigerant	LANL	Mech
TRC@	Control, recording, temperature	5.1mod	I&C
TRCTR	Tractor	LANL	Shop
TRK	Control station, recording, temperature	5.1	I&C
TRLR	Trailer	ASME	Shop
TRP	Trap	803.1	Mech
TRS	Tank, retention or storage	LANL	Mech
TRS@	Switch, recording, temperature	5.1mod	I&C
TRT	Transmitter, recording, temperature	5.1	I&C
TRUCK	Truck	LANL	Shop
TS	Trap, steam	LANL	Mech
TS@	Switch, temperature	5.1mod	I&C
TSA	Tank, separator, air	LANL	Mech
TSD	Turbine, steam driven	LANL	Mech
TSE	Safety device, temperature	5.1	Mech

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Attachment 3, ID Sort

ID <sort	Description	Ref	Typical Disc
TSH	Switch, temperature, high	5.1	I&C
TSHL	Switch, temperature, high or low	5.1	I&C
TSL	Switch, temperature, low	5.1	I&C
TSTEQ	Equipment, Test (only when no specific applies)	ASME	M&TE
TT	Transmitter, temperature	5.1	I&C
TTE	Tower, electric, PNM TE	LANL	Elec Utility
TTT	Turntable	LANL	C/S/Arch
TV	Tank, vacuum	LANL	Mech
TV@	Final element, temperature	5.1 mod	I&C
TW	Well, thermal (thermowell)	5.1	I&C
TWC	Tank, water, chilled or cooling	LANL	Mech
TWD	Tank, water, deionized or demineralized	LANL	Mech
TWH	Tank, water, hot	LANL	Mech
TWS	Tank, water, sealant	LANL	Mech
TWT	Tank, waste treatment	LANL	Mech
TX	Tank, expansion	LANL	Mech
TY	Relay, temperature	5.1	I&C
UI	Indicator, multivariable	5.1	I&C
UPS	Uninterruptible power supply	1100	Elec
UR	Recorder, multivariable	5.1	I&C
UV	Final element, multivariable	5.1	I&C
UY	Relay, multivariable	5.1	I&C
V	Valve	803.1	Mech
VA	Alarm, vibration	5.1	I&C
VABG	Valve, gate, aeration basin	LANL	Mech
VAV	Variable Air Volume box	LANL	Mech
VB	Valve, block	LANL	Mech
VBG	Valve, burner, gas	LANL	Mech
VBH	Valve, block, hydrant	LANL	Mech
VBO	Valve, burner, oil	LANL	Mech
VBW	Valve, block, water	LANL	Mech
VC	Valve, check	LANL	Mech
VE	Primary element, vibration	5.1	I&C
VEQG	Valve, gate, equalization basin	LANL	Mech
VFD	Drive, variable frequency	LANL	Elec
VI	Indicator, vibration	5.1	I&C
VIS	Switch, indicating, vibration	5.1	I&C
VIT	Transmitter, indicating, vibration	5.1	I&C
VM	Valve, motor-operated	LANL	Mech
VM@	Modifier, vibration	5.1 mod	I&C
VP	Vessel, pressure	LANL	Mech
VPR	Valve, pressure reducing	LANL	Mech
VR	Recorder, vibration	5.1	I&C
VRT	Transmitter, recording, vibration analysis	5.1	I&C
VS	Switch, vibration	5.1	I&C
VSH	Switch, vibration, high	5.1	I&C
VSHL	Switch, vibration, high or low	5.1	I&C
VSL	Switch, vibration, low	5.1	I&C
VT	Transmitter, vibration	5.1	I&C
VY	Relay, vibration analysis	5.1	I&C
VZ	Final element, vibration analysis	5.1	I&C
WA	Washer, air	LANL	Mech
WC	Control, weight or force	5.1	I&C
WCR	Cooler, water	ASME	Mech
WCV	Valve, control, force	5.1	Mech

ID <sort	Description	Ref	Typical Disc
WDC	Control, force differential	5.1	I&C
WDCV	Valve, control, force differential	5.1	Mech
WDE	Primary element, force differential	5.1	I&C
WDI	Indicator, force differential	5.1	I&C
WDIC	Control, indicating, force differential	5.1	I&C
WDIT	Transmitter, indicating, force differential	5.1	I&C
WDR	Recorder, force differential	5.1	I&C
WDRC	Control, recording, force differential	5.1	I&C
WDRT	Transmitter, recording, force differential	5.1	I&C
WDSH	Switch, force differential, high	5.1	I&C
WDSL	Switch, force differential, low	5.1	I&C
WDT	Transmitter, force differential	5.1	I&C
WDY	Relay, force differential	5.1	I&C
WDZ	Final element, force differential	5.1	I&C
WE	Primary element, weight or force	5.1	I&C
WGS	Weir gate, sludge	LANL	C/S/Arch
WI	Indicator, weight or force	5.1	I&C
WIC	Control, indicating, weight or force	5.1	I&C
WIS	Switch, indicating, weight or force	5.1	I&C
WIT	Transmitter, indicating, weight or force	5.1	I&C
WM	Modifier, weight or force	5.1	I&C
WR	Recorder, weight or force	5.1	I&C
WRC	Control, recording, weight or force	5.1	I&C
WRE	Primary element, wear	5.1	I&C
WRT	Transmitter, recording, weight or force	5.1	I&C
WSH	Switch, weight or force, high	5.1	I&C
WSHL	Switch, weight or force, high or low	5.1	I&C
WSL	Switch, weight or force, low	5.1	I&C
WT	Transmitter, weight or force	5.1	I&C
WW	Wig-wag	LANL	C/S/Arch
WY	Relay, weight or force	5.1	I&C
WZ	Final element, weight or force	5.1	I&C
XA	Alarm, special	5.1	I&C
XC	Control, special	5.1	I&C
XCO	Control operator, special	803.1	I&C
XE	Primary element, special	5.1	I&C
XFMR	Transformer (LV)	803.1	Elec
XFRD	Transformer, distribution (MV)	LANL	Elec
XFRP	Transformer, power (HV)	LANL	Elec
XFRR	Transformer, rectifier	LANL	Elec
XI	Indicator, special	5.1	I&C
XIC	Control, indicating, special	5.1	I&C
XIK	Control station, indicating, special	5.1	I&C
XIS	Switch, indicating, special	5.1	I&C
XIT	Transmitter, indicating, special	5.1	I&C

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Attachment 3, ID Sort

ID <sort	Description	Ref	Typical Disc
	special		
XM	Modifier, special	5.1	I&C
XR	Recorder, special	5.1	I&C
XRAY	Unit, security, x-ray	803.1	I&C
XRC	Control, recording, special	5.1	I&C
XRK	Control station, recording, special	5.1	I&C
XT	Transmitter, special	5.1	I&C
YC	Control, presence or state	5.1	I&C
YI	Indicator, presence or state	5.1	I&C
YIC	Control, indicating, presence or state	5.1	I&C
YR	Recorder, presence or state	5.1	I&C
YSH	Switch, presence or state, high	5.1	I&C
YSL	Switch, presence or state, low	5.1	I&C
YT	Transmitter, presence or state	5.1	I&C
YY	Relay, presence or state	5.1	I&C
YZ	Final element, presence or state	5.1	I&C
ZA	Alarm, zone or position	5.1	I&C
ZC	Control, zone or position	5.1	I&C
ZCV	Valve, control, zone or position	5.1	Mech
ZDC	Control, deviation	5.1	I&C
ZDCV	Valve, control, deviation	5.1	Mech
ZDE	Primary element, deviation	5.1	I&C
ZDI	Indicator, deviation	5.1	I&C
ZDIC	Control, indicating, deviation	5.1	I&C
ZDIT	Transmitter, indicating, deviation	5.1	I&C
ZDR	Recorder, deviation	5.1	I&C
ZDRC	Control, recording, deviation	5.1	I&C
ZDRT	Transmitter, recording, deviation	5.1	I&C
ZDSH	Switch, deviation, high	5.1	I&C
ZDSL	Switch, deviation, low	5.1	I&C
ZDT	Transmitter, deviation	5.1	I&C
ZDV	Final element, deviation	5.1	I&C
ZDY	Relay, deviation	5.1	I&C
ZE	Primary element, zone or position	5.1	I&C
ZI	Indicator, zone or position	5.1	I&C
ZIC	Control, indicating, zone or position	5.1	I&C
ZIS	Switch, indicating, zone or position	5.1	I&C
ZIT	Transmitter, indicating, position	5.1	I&C
ZM	Modifier, zone or position	5.1	I&C
ZR	Recorder, position	5.1	I&C
ZRC	Control, recording, position	5.1	I&C

ID <sort	Description	Ref	Typical Disc
ZRT	Transmitter, recording, position	5.1	I&C
ZS	Switch, limit, zone or position	5.1	I&C
ZSH	Switch, position, high	5.1	I&C
ZSHL	Switch, position, high or low	5.1	I&C
ZSL	Switch, position, low	5.1	I&C
ZT	Transmitter, zone or position	5.1	I&C
ZV	Final element, position	5.1	I&C
ZY	Relay, position	5.1	I&C

M&TE = Measuring & Test Equip

References (sources):

- ASME Y14.38-1999
- IEEE Std 803.1-1992
- IEEE Std 1015-1997
- IEEE Std 1100-1999
- ISA 5.1-1992 (modified with @ suffix when noted)
- LANL historical
- NECA 100-1999
- NFPA 170-1999 (modified w/ @ suffix when noted)

The “Discipline” indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.