Equipment Naming Standard

Revision 1.5 2/3/2026

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Section 1 – Purpose and Expectations

- The purpose of the Space and Mission Systems Equipment Naming Standard is to ensure naming consistency between all SMS facilities. With this consistency, SMS will be able to operate and maintain our facilities with greater efficiency.

Section 2 – Deliverables

- The Equipment Naming Standard is to be used for all design and as-built drawings, as well as all Revit models and submittal documentation.
- The construction team is to field label all equipment designated in Section 6.0 with heavy-duty labels that display the textual standardized name of the equipment, as well as a QR code that reads the standardized name of the equipment.
    - Construction and/or Contractor teams need to provide a spreadsheet with equipment list with unit's model number, serial number and location data.
    - Electrical equipment display textual field labeling shall match the abbreviated name laid out in Section 5.0. Electrical. However, Electrical QR codes shall read the full-length standardized equipment name.

- Confirm with EHS that labels comply with our internal CAR system.
- Ensure no silicone is present in the labels.

Section 3 – Equipment Numbering Process

- The project team is to identify the type and quantity of equipment needed for new equipment in an Excel list.
- The project team is to send the prepared Excel list to Facilities Engineering and Facilities Engineering will send back to the project team an Excel list of starting numbers.
- The project team is to send a final Excel list of new and demolished equipment to Facilities Engineering at the close of the project.

Section 4 – Equipment Naming Structure

- The following structure shall be used for the naming of all new and replaced equipment.
  - BBBBB_FF_EEE_NNN_CCC_SSS_MMM_TTT_XXX
- 5 characters: BBBBB = Building (no dashes in bldg. name) (See Section 7.0)
- 2 characters: FF = Floor (PH, LL, PL=parking lot, RF-Roof,)
- 3 characters: EEE = Equipment Naming Code (e.g. AHU, VAV, etc.)
- 3 characters: NNN = Equipment Number (e.g. AHU_004)
- 3 characters: CCC = Subcomponent Units (e.g. AHU_004_PMP_001)
- 3 characters: SSS = System (if needed)
- 3 characters: MMM = System number (if needed)
- 3 characters: TTT = Point type (for controls if applicable) (e.g. ALM for alarm or OAT for outside air temperature)
- XXX = Other fields defined as needed

Section 5 – Equipment Naming Parameters

- 32 character maximum
- Each name must be unique.
- Equipment numbering continues through each floor (e.g. LL_AHU_01 to ML_AHU_02)
- If replacing existing equipment, add letter designation but retain equipment number (e.g. AHU_001 to AHU_01A)
- Only use the needed number of characters per field.
- Not applicable for NNN = Equipment Number where all three characters must be used.

Section 6 – Electrical Equipment Naming Guidelines

- Electrical equipment should use abbreviated nomenclature on drawings and design packages to help keep circuit labeling clear and concise.

- Abbreviated equipment names should begin with the equipment digits and continue to follow the naming standard EEE_NNN_SSS_MMM_TTT_XXX without the use of underscores.

Full Equipment Name	Abbreviated Name
AHQ_01_XF_001_SB	XF1SB
AHQ_01_HV_001_SB	HV1SB
AHQ_01_LV_001_SB	LV1SB
AHQ_01_LV_002	LV2
AHQ_01_LV_003	LV3

- If a project spans multiple buildings (ex: FM and FT), then an Excel table shall be provided to detail complete vs abbreviated equipment names.
- The system characters shall be used to delineate normal, standby, and life safety circuits. SB for standby systems, LS for life safety systems, and blank for normal power systems.
- Subpanels will get a unique equipment number.

Section 7 – Equipment Naming Codes

The following pages contain the SMS equipment naming codes to be used when generating equipment names.

Equipment Names	Equipment Codes	Field Label
Air Blower	ABL	X
Condenser, Air – Cooled	ACC	X
Air Curtain	ACT	
Air Conditioner, Window	ACW	X
Air Dryer	ADR	X
Air Handling Unit	AHU	X
Air Scrubber	ASC	X
Alarm	ALM	
Switch, Automatic Transfer	ATS	X
Building Automation System	BAS	
Backflow Prevention Device	BFP	
Boiler, Steam, Natural Gas	BLR	X
Heater, Baseboard	BSB	
Chiller	CHL	X
Cabinet Heater	CHT	X
Chiller, Air Cooled	CLA	X
Chiller, Water Cooled	CLW	X
Carbon – Monoxide Detection Sensors	CMD	
Crane (Bridge, Gantry, Hoist)	CRN	
Air Compressor	CMP	X
Condenser Pump	CNP	X

Computer Room Air Conditioning	CRC	X
Condensate Return Unit	CRU	
Cooling Tower	CTR	X
Cabinet Unit Heater	CUH	X
Chill Water Pump	CWP	X
Chilled Water Line	CWL	
Davits/Roof Anchors/Fall Protection	DAV	
Switch, Disconnect	DCT	X
Deaerator Tank	DEA	X
Fryer, Pressurized Roaster, Gas/Electric	DFF	X
Drinking Fountain	DFN	
Exterior Door	DRE	
Interior Door	DRI	
Drain	DRN	
Duplex Sewage Ejector	DSE	
Dishwasher	DSH	X
Domestic Water Pump	DWP	X
Fan, Exhaust	EFN	X
Emergency Lighting	ELT	
Electric Traction ELV	ELV	X
Elevator	ELV	X
Emergency Generator	EMG	X
Escalator	ESC	X
Evaporative Cooler	EVP	X
Exit Signs	EXS	
Expansion Tank	EXT	X
Furnace, Forced Air, Natural Gas	FAF	X
Fan	FAN	X
Fan Coil Unit	FCU	X
Fire Extinguishers	FEX	
Filter	FLT	X
Fences and Gates	FNG	
Fire Pump	FPM	X
Refrigerator unit/displace case w/ external condenser	FRG	X
Refrigerator/Freezer, walk – in box w/ external condenser	FRZ	X
Fire and Smoke Dampers	FSD	
Clean – Agent Fire – Extinguishing System	FSP	
Dry – Pipe Sprinkler Systems	FSP	
Pre-action Sprinkler System	FSP	

Wet – Pipe Sprinkler System	FSP	
Feed Water Pump	FWP	X
Garage Disposal	GBG	
Fuel – Gas Detection Sensors	GDS	
Glycol Feed System	GFS	X
Grill	GRL	X
Grease Trap	GTP	
Heating/Cooling Unit	HCU	X
Fire Hose / Hose Connections	HSE	
Heat Pump	HTP	X
Humidifier, Evaporative Pan w/ Heating Coil	HUM	X
High Voltage Panel	HV	X
Heating & Ventilating Units	HVU	X
Boiler, Hot Water	HWB	X
Heating Hot Water Pump	HWP	X
Heat Exchanger	HXR	X
Fire Hydrant	HYD	
Ice Machin	ICE	X
Kathabar System (Liquid Desiccant)	KBR	X
Kitchen Exhaust Hood	KEH	X
Kettle, Steam	KTL	X
Ladder	LDR	
Lifting Devices	LFT	
Parking Lots (Paved)	LOT	
Low Voltage Panel	LV	X
Make Up Air Unit	MAU	X
Motor Control Center	MCC	
Mixer, Electric	MIX	
Motor	MOT	
Metering Devices	MTR	
Oven	OVN	X
Parking Arm Gates	PAG	
Powered Door	PDR	X
Irrigation Pump	PMP	
Pump	PMP	X
Radiator	RAD	X
Roof Membrane	RFM	
Refrigeration Machine	RFR	X
Revers Osmosis Water Treatment Skid	RO	X
Roof System and Drain	RFS	
Range, Gas	RNG	X

BAE SYSTEMS PROPRIETARY

Package Unit	RTU	X
Smoke Detection Sensors	SDS	
Steamer – Kitchen Appliance	STM	
Humidifier, Steam	SHS	X
Sump Pump	SMP	X
Snow Melt System	SMS	
Split – System Air Conditioner	SSA	X
Steam Trap	STR	
Steam Station	STS	X
Switchboard, Electrical	SWB	X
Switch Gear	SWG	X
Terminal Unit	TMU	
Tank	TNK	X
Transformer, Oil – Filled	TRN	X
Space Heater	UHT	X
Unit Heater	UHT	X
Uninterruptable Power Supply	UPS	X
Underground Storage Tank	UST	
Variable Air Volume Box	VAV	X
Vacuum Pump	VCP	X
Variable Frequency Drive	VFD	X
Voltage Regulator	VLT	
Valves	VLV	
Condenser, Water – Cooled	WCC	X
Water Heater, Electric and Natural Gas	WHT	X
Wheelchair Lift	WLF	
Water Softener	WSF	X
Water Treatment (Chemical)	WTM	X
Dry Type Transformer	XF	X
BAS Field Panels	FPL	X
Fan Power Box	FPB	X

Section 8 – Building Name Codes

The following pages contain the SMS building codes to be used when generating equipment names.

Building Code	Site	Address	City
ADO	NORTH	1600 Commerce Street	BOULDER
BACH/LO6	NORTH	4946 63rd Street	BOULDER
CO3	NORTH	1645 Conestoga Street	BOULDER
CO5	NORTH	1685 Conestoga Street	BOULDER

CO6	NORTH	1688 Conestoga Street	BOULDER
CO7	NORTH	1727 Conestoga Street	BOULDER
CO8	NORTH	1730-50 Conestoga Street	BOULDER
CO9	NORTH	1777 Conestoga Street	BOULDER
CO10	NORTH	1780 Conestoga Street	BOULDER
FA	NORTH	1600 Commerce Street	BOULDER
FI	NORTH	1600 Commerce Street	BOULDER
FM	NORTH	1600 Commerce Street	BOULDER
FT	NORTH	1600 Commerce Street	BOULDER
RA4	NORTH	1640 Range Street	BOULDER
RA5	NORTH	1705 Range Street	BOULDER
RA6	NORTH	1680-90 Range Street	BOULDER
RA7	NORTH	1735 Range Street	BOULDER
RA8	NORTH	1720-30 Range Street	BOULDER
RA11	NORTH	1835 Range Street	BOULDER
T1	NORTH	1600 Commerce Street	BOULDER
T2	NORTH	1600 Commerce Street	BOULDER
T3	NORTH	1600 Commerce Street	BOULDER
TT	NORTH	1600 Commerce Street	BOULDER
AMC	SOUTH	9675 W. 108th Circle	WESTMINSTER
AHQ	SOUTH	10 Longs Peak Drive	BROOMFIELD
AWH	SOUTH	1100 W. 120th Avenue	WESTMINSTER
BAH1	SOUTH	12202 Airport Way	BROOMFIELD
BRD	SOUTH	7 Longs Peak Avenue	BROOMFIELD
PDF	SOTUH	7 Longs Peak Avenue	BROOMFIELD
WMR1	SOUTH	10055 Westmoor Drive	WESTMINSTER
WMR3	SOUTH	10155 Westmoor Drive	WESTMINSTER
WMR7	SOUTH	10955 Westmoor Drive	WESTMINSTER

Revision Log

The following is a reference for execution and changes made for the standard described above.

Revision	Release Date	Description of Changes
1.2	5/18/2022	Initial Release Date
1.3	7/29/2023	Reformatting, added new equipment codes
1.4	4/16/2024	Reformatting to BAE, remove old building codes, add new equipment codes
1.5	2/3/2026	Added deliverable for contractors. Correct spelling error on page 3 and add new asset codes (ASC, CRN, CWL, STM).