
PART 1 – GENERAL

1.01 MECHANICAL EQUIPMENT IDENTIFICATION SYSTEM

A. Purpose:

Identification of mechanical equipment and components for monitoring maintenance and records.

B. Procedures:

Mechanical equipment (Air handling units, heat exchangers, fans, terminal units, pumps, etc.) shall be provided with a unique equipment ID number (indicated on drawings). Obtain equipment Identification Numbers from Port of Seattle (F&I or Maintenance Boiler Shop, Central Mechanical Plant (CMP)).

C. SeaTac International Airport Equipment Identification System Criteria:

Examples: H, AC, LC, AC, 01 = HAC.LCAC01

System: **H** = HVAC

Location: **AC** = A Concourse

Level: **LC** = Concourse

Units: **AC** = Air Conditioner

Number Sequence: **01**

(Numbers should be sequenced from closest from central plant then increase as distance increases in north, south, east, west fashion)

System:

H = HVAC

F = Fire

W = Water (Domestic/Fire) Pump Station

P = Plumbing or Waste Pumps

GENERAL PROVISIONS
MECHANICAL EQUIPMENT ID SYSTEM

Location:

AC = A Concourse
AF = Airfield
BC = B Concourse
BD = Biffy Dump
C1 = C1 Baggage Facility
CC = C Concourse
CL = Center Lift Station
CMP = Central Mechanical
Plant
CT = Central Terminal
DC = D Concourse
GF = Golf Course
FF = Fuel Farm
FG = Field Grounds
FLV = Field Lighting Vault
IA = International Arrivals
Facility
IC = International Corridor
IW = Industrial Waste
LS = Lift Station
MB = Maintenance AC4
MT = Main Terminal

MW = Maintenance Warehouse
NL = North Lift Station
NP = North Toll Plaza
NS = North Satellite
NU = North Utility
PP = Public Parking
PCAP = Preconditioned Air Plant
PS = Pump Station
PW = Passenger Walkway (Bridge
IAF)
QTx = Rental Car Facility QTA
RC = Rental Car Facility
SC = Sterile Corridor
SL = South Lift Station
ST = Main Terminal South
SS = South Satellite
TW = Cooling Tower
WB = West Building
WH = Westin Hotel
WTP = Waste Treatment Plant
WPS = Water Pumphouse

Level:

LB = Basement
LBG = Bag Claim / Bagwell
LBR = Bridge
LC = Concourse
LM = Mezzanine
LP = Penthouse
LR = Ramp
LT = Transit (STS)
L1, L2 etc.= Floor Number

GENERAL PROVISIONS
MECHANICAL EQUIPMENT ID SYSTEM

Level designator is used for all equipment except Air Handling Units. Levels have been adjusted as additional facilities have been installed so are not completely consistent across all buildings. Contact F&I for clarifications.

Units:

AH = Air Handling Unit
AC = Air Conditioner
AD = Air Dryer
B = Boiler
CA = Air Compressor
CF = Chemical Feeder
CH = Chiller
CHM = Chemical Treatment
CHW = Chilled Water
CND = Condensate
CNDP = Condensate Pump
CT = Cooling Tower
CW = Condenser Water
DCWM / DHWM = Domestic Cold / Hot
Water Meter
DT = Day Tank
EF = Exhaust Fan
ET = Expansion Tank
F = Fan Powered Terminal Unit
FC = Fan Coil Unit
FL = Fluid Cooler
FTR = Fin Tube Radiator
G = Generator
GASM = Natural Gas Meter
GI = Grease Interceptor
HW = Hot Water
HWP = Hot Water Pump
HX = Heat Exchanger
L = Controller Location
LP = Lift Pump Station

GENERAL PROVISIONS
MECHANICAL EQUIPMENT ID SYSTEM

Units:

NSG = North Sluice Gate
P = Pump
PC = PC Air Gate Air Handler
PF = Pressurization Fan
PFHX = Plate Frame Heat Exchanger
PS = Pump Station
RF = Return Fan
S = Strainer
SCHW = Secondary Chilled Water
SF = Supply Fan
SM = Sump
SP = Sewage Pump
SSG = South Sluice Gate
ST = Storage Tank
STM = Steam
TEF = Toilet (Restroom) Exhaust Fan
TF = Transfer Fan
UH = Unit Heater
V = Variable Air Volume Terminal Unit
WH = Water Heater

1.02 EQUIPMENT TAG

Provide a nameplate for equipment in addition to the nameplate of the manufacturer. Nameplate text shall match the equipment numbers shown in Equipment Schedules shown on drawings. Nameplates shall be laminated black and white plastic. Nameplates shall be rectangular shape with square corners, 2 inch high by 5.5 inch wide. ASTM D709 laminated black and white melamine plastic nameplates shall have lettering cut through to white background; surface shall be matte finish. Textline shall be Arial Rounded Bold 3/4" high. Tags shall have one line of characters. Nameplates shall have adhesive backing per manufacturer's recommendations for exposure to industrial environments. A typewritten list of the equipment numbers, showing specific equipment location, shall be included in each

operation and maintenance manual. In addition, this list shall be framed and hung in a mechanical room at the location coordinated with the Port of Seattle boiler plant.

1.03 VALVE AND INSTRUMENT TAGS

- A. Valve and instrument tags shall be of 19 gage brass with stamped, black-enamel-filled characters **or** laminated black and white plastic (as above except 1/2" by 1 1/2" up to 1" by 2 1/2" sizes as appropriate) with lettering cut through to white background. Valve and instrument tags shall be supplied with a brass round beaded chain with a brass splicing link connector; beads shall be 1/8 inch diameter.
- B. Valve number must indicate service to match drawing piping abbreviations as called out in Appendix A and on project drawings (Hydronic hot water supply valve "HWS")
- C. Project number should be included on tags. Options include a second tag, on the back of the tag or two lines of text.
- D. A typewritten list of the tag identification numbers, with project number and name showing specific valve and instrument locations and floor, as well as service, shall be included in each operation and maintenance manual. In addition, this list shall be framed and hung in a mechanical room at the location coordinated with the Port of Seattle boiler plant.
- E. If additional information is required, please contact Facilities and Infrastructure (F&I).

1.04 CONCEALED EQUIPMENT TAGGING

- A. Provide labels on ceiling to locate coils, fire dampers, valves, control devices etc. Labels made with a label maker, such as Brother P-touch, using clear tape with 1/4" high black writing. Writing should indicate equipment in accordance with these mechanical standards and project drawings. For example: fire smoke dampers "FSD". Valves indicating service as abbreviated in standards (Hydronic hot water isolation valve "HHWV") and terminal units / VAV boxes, part of ID if not the whole thing such as "HST.AH01.LC304V" or at a minimum "LC304V". Labels to be placed on T bar at corner closest to equipment.

END OF SECTION