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**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

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**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

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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

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**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

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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 ½” up to 1”by 2½” 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 ¼” high black writing. Writing should indicate equipment in according 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.

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END OF SECTION