

AIR SYSTEM REQUIREMENTS				(Part 1 of 2)	MECH-2C
Project Name				Date	
710 Wilshire Blvd. Alex Gorbly Hotel Project				10/29/2015	
Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc.)					
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		5th Floor New Bldg	6th Floor New Bldg	7th Floor (NBBdy) Kitchen	
Number of Systems		4	4	4	
Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)					
MANDATORY MEASURES					
T-24 Sections					
Heating Equipment Efficiency		112(a)	% AFUE	% AFUE	% AFUE
Cooling Equipment Efficiency		112(a)	n/a	n/a	n/a
HVAC Heat Pump Thermostat		112(b), 112(c)	n/a	n/a	n/a
Furnace Controls/Thermostat		112(g), 115(a)	n/a	n/a	n/a
Natural Ventilation		121(b)	No	No	No
Mechanical Ventilation		121(b)	2,400 cfm	2,400 cfm	784 cfm
VAV Minimum Position Control		121(a)	No	No	No
Demand Control Ventilation		121(d)	No	No	No
Time Control		122(a)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setpoint Control		122(b)	Setback Required	Setback Required	Setback Required
Outdoor Damper Control		122(c)	Auto	Auto	Auto
Isolation Zones		122(g)	n/a	n/a	n/a
Pipe Insulation		123			
Duct Location/R-value		124	Altic Ceiling Ins. vented / 8.0	Altic Ceiling Ins. vented / 8.0	Altic Ceiling Ins. vented / 8.0

PRESCRIPTIVE MEASURES			
Calculated Design Heating Load	144(a & b)	n/a	n/a
Proposed Heating Capacity	144(a & b)	753,490 Btu/hr	663,470 Btu/hr
Calculated Design Cooling Load	144(a & b)	n/a	n/a
Proposed Cooling Capacity	144(a & b)	328,470 Btu/hr	307,008 Btu/hr
Fan Control	144(c)	Constant Volume	Constant Volume
DP Sensor Location	144(c)	Yes	Yes
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes
Simultaneous Heat/Cool	144(d)	No	No
Economizer	144(e)	No Economizer	No Economizer
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp
Electric Resistance Heating	144(g)	Constant Temp	Constant Temp
Air Cooled Chiller Limitation	144(h)		
Duct Leakage Sealing, If Yes, a MECH-4-A must be submitted	144(i)	Yes	Yes

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(i) apply.

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AIR SYSTEM REQUIREMENTS			(Part 1 of 2)	MECH-2C
Project Name 710 Wilshire Blvd. Alex Gorbly Hotel Project			Date 10/29/2015	
Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc.)				
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	5th Floor (NBBdy) Admin-Locker	7th Floor (NBBdy) Flex		
Number of Systems	1			
Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)				
T-24 Sections				
112(a)	% AFUE	% AFUE		
112(a)	n/a	n/a		
112(b), 112(c)	n/a	n/a		
112(d), 115(a)	n/a	n/a		
121(b)	No	No		
121(b)	143 cfm	32 cfm		
121(c)	No	No		
121(c)	Programmable Switch	Programmable Switch		
122(a)	Setback Required	Setback Required		
122(b)	Auto	Auto		
122(c)	n/a	n/a		
123				
Duct Location R-value	Altic Ceiling Ins. vented / 8.0		Altic Ceiling Ins. vented / 8.0	

PRESCRIPTIVE MEASURES			
Calculated Design Heating Load	144(a & b)	n/a	n/a
Proposed Heating Capacity	144(a & b)	33,900 Btu/hr	25,800 Btu/hr
Calculated Design Cooling Load	144(a & b)	n/a	n/a
Proposed Cooling Capacity	144(a & b)	21,528 Btu/hr	16,900 Btu/hr
Fan Control	144(c)	Constant Volume	Constant Volume
DP Sensor Location	144(c)	Yes	Yes
Supply Pressure Reset (DDC only)	144(c)	Yes	Yes
Simultaneous Heat/Cool	144(d)	No	No
Economizer	144(e)	No Economizer	No Economizer
Heat Air Supply Reset	144(f)	Constant Temp	Constant Temp
Cool Air Supply Reset	144(f)	Constant Temp	Constant Temp
Electric Resistance Heating	144(g)	Constant Temp	Constant Temp
Air Cooled Chiller Limitation	144(h)		
Duct Leakage Sealing, If Yes, a MECH-4-A must be submitted	144(i)	Yes	Yes

1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(i) apply.

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WATER SIDE SYSTEM REQUIREMENTS			(Part 2 of 2)	MECH-2C
Project Name 710 Wilshire Blvd. Alex Gorbly Hotel Project			Date 10/29/2015	
WATER ² SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops				
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		McQuay WMC200	BAC 15176	Payson MVR-2003
Number of Systems		2		
Indicate Page Reference on Plans or Specification ¹				
T-24 Sections				
112(a)	0.530 WHF	10 "F" Approach	87 %	
123	CHW Piping	n/a	HW Piping	
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls		Variable-Speed-Fan		n/a
144(a) & (b)	n/a	CW Reset		n/a
144(c)	n/a	Required		Required
144(d)	Required	Required		Required
144(e)	Required	Required		Required
144(f)	Required	Required		Required
144(g)	n/a	Required		Required
144(h)	n/a	Required		Required
144(i)	n/a	Required		Required
144(j)	n/a	Required		Required
144(k)	n/a	Required		Required
144(l)	n/a	Required		Required
144(m)	n/a	Required		Required
144(n)	n/a	Required		Required
144(o)	n/a	Required		Required
144(p)	n/a	Required		Required
144(q)	n/a	Required		Required
144(r)	n/a	Required		Required
144(s)	n/a	Required		Required
144(t)	n/a	Required		Required
144(u)	n/a	Required		Required
144(v)	n/a	Required		Required
144(w)	n/a	Required		Required
144(x)	n/a	Required		Required
144(y)	n/a	Required		Required
144(z)	n/a	Required		Required
144(aa)	n/a	Required		Required
144(ab)	n/a	Required		Required
144(ac)	n/a	Required		Required
144(ad)	n/a	Required		Required
144(ae)	n/a	Required		Required
144(af)	n/a	Required		Required
144(ag)	n/a	Required		Required
144(ah)	n/a	Required		Required
144(ai)	n/a	Required		Required
144(aj)	n/a	Required		Required
144(ak)	n/a	Required		Required
144(al)	n/a	Required		Required
144(am)	n/a	Required		Required
144(an)	n/a	Required		Required
144(ao)	n/a	Required		Required
144(ap)	n/a	Required		Required
144(aq)	n/a	Required		Required
144(ar)	n/a	Required		Required
144(as)	n/a	Required		Required
144(at)	n/a	Required		Required
144(au)	n/a	Required		Required
144(av)	n/a	Required		Required
144(aw)	n/a	Required		Required
144(ax)	n/a	Required		Required
144(ay)	n/a	Required		Required
144(az)	n/a	Required		Required
144(ba)	n/a	Required		Required
144(bb)	n/a	Required		Required
144(bc)	n/a	Required		Required
144(bd)	n/a	Required		Required
144(be)	n/a	Required		Required
144(bf)	n/a	Required		Required
144(bg)	n/a	Required		Required
144(bh)	n/a	Required		Required
144(bi)	n/a	Required		Required
144(bj)	n/a	Required		Required
144(bk)	n/a	Required		Required
144(bl)	n/a	Required		Required
144(bm)	n/a	Required		Required
144(bn)	n/a	Required		Required
144(bo)	n/a	Required		Required
144(bp)	n/a	Required		Required
144(bq)	n/a	Required		Required
144(br)	n/a	Required		Required
144(bs)	n/a	Required		Required
144(bt)	n/a	Required		Required
144(bu)	n/a	Required		Required
144(bv)	n/a	Required		Required
144(bw)	n/a	Required		Required
144(bx)	n/a	Required		Required
144(by)	n/a	Required		Required
144(bz)	n/a	Required		Required
144(ca)	n/a	Required		Required
144(cb)	n/a	Required		Required
144(cc)	n/a	Required		Required
144(cd)	n/a	Required		Required
144(ce)	n/a	Required		Required
144(cf)	n/a	Required		Required
144(cg)	n/a	Required		Required
144(ch)	n/a	Required		Required
144(ci)	n/a	Required		Required
144(cj)	n/a	Required		Required
144(ck)	n/a	Required		Required
144(cl)	n/a	Required		Required
144(cm)	n/a	Required		Required
144(cn)	n/a	Required		Required
144(co)	n/a	Required		Required
144(cp)	n/a	Required		Required
144(cq)	n/a	Required		Required
144(cr)	n/a	Required		Required
144(cs)	n/a	Required		Required
144(ct)	n/a	Required		Required
144(cu)	n/a	Required		Required
144(cv)	n/a	Required		Required
144(cw)	n/a	Required		Required
144(cx)	n/a	Required		Required
144(cy)	n/a	Required		Required
144(cz)	n/a	Required		Required
144(da)	n/a	Required		Required
144(db)	n/a	Required		Required
144(dc)	n/a	Required		Required
144(dd)	n/a	Required		Required
144(de)	n/a	Required		Required
144(df)	n/a	Required		Required
144(dg)	n/a	Required		Required
144(dh)	n/a	Required		Required
144(di)	n/a	Required		Required
144(dj)	n/a	Required		Required
144(dk)	n/a	Required		Required
144(dl)	n/a	Required		Required
144(dm)	n/a	Required		Required
144(dn)	n/a	Required		Required
144(do)	n/a	Required		Required
144(dp)	n/a	Required		Required
144(dq)	n/a	Required		Required
144(dr)	n/a	Required		Required
144(ds)	n/a	Required		Required
144(dt)	n/a	Required		Required
144(du)	n/a	Required		Required
144(dv)	n/a	Required		Required
144(dw)	n/a	Required		Required
144(dx)	n/a	Required		Required
144(dy)	n/a	Required		Required
144(dz)	n/a	Required		Required
144(ea)	n/a	Required		Required
144(eb)	n/a	Required		Required
144(ec)	n/a	Required		Required
144(ed)	n/a	Required		Required
144(ee)	n/a	Required		Required
144(ef)	n/a	Required		Required
144(eg)	n/a	Required		Required
144(eh)	n/a	Required		Required
144(ei)	n/a	Required		Required
144(ej)	n/a	Required		Required
144(ek)	n/a	Required		Required
144(el)	n/a	Required		Required
144(em)	n/a	Required		Required
144(en)	n/a	Required		Required
144(eo)	n/a	Required		Required
144(ep)	n/a	Required		Required
144(eq)	n/a	Required		Required
144(er)	n/a	Required		Required
144(es)	n/a	Required		Required
144(et)	n/a	Required		Required
144(eu)	n/a	Required		Required
144(ev)	n/a	Required		Required
144(ew)	n/a	Required		Required
144(ex)	n/a	Required		Required
144(ey)	n/a	Required		Required
144(ez)	n/a	Required		Required
144(fa)	n/a	Required		Required
144(fb)	n/a	Required		Required
144(fc)	n/a	Required		Required
144(fd)	n/a	Required		Required
144(fe)	n/a	Required		Required
144(ff)	n/a	Required		Required
144(fg)	n/a	Required		Required
144(fh)	n/a	Required		Required
144(fi)	n/a	Required		Required
144(fj)	n/a	Required		Required
144(fk)	n/a	Required		Required
144(fl)	n/a	Required		Required
144(fm)	n/a	Required		Required
144(fn)	n/a	Required		Required
144(fo)	n/a	Required		Required
144(fp)	n/a	Required		Required
144(fq)	n/a	Required		Required
144(fr)	n/a	Required		Required
144(fs)	n/a	Required		Required
144(ft)	n/a	Required		Required
144(fu)	n/a	Required		Required
144(fv)	n/a	Required		Required
144(fw)	n/a	Required		Required
144(fx)	n/a	Required		Required
144(fy)	n/a	Required		Required
144(fz)	n/a	Required		Required
144(ga)	n/a	Required		Required
144(gb)	n/a	Required		Required
144(gc)	n/a	Required		Required
144(gd)	n/a	Required		Required
144(ge)	n/a	Required		Required
144(gf)	n/a	Required		Required
144(gg)	n/a	Required		Required
144(gh)	n/a	Required		Required
144(gi)	n/a	Required		Required
144(gj)	n/a	Required		Required
144(gk)	n/a	Required		Required
144(gl)	n/a	Required		Required
144(gm)	n/a	Required		Required
144(gn)	n/a	Required		Required
144(go)	n/a	Required		Required
144(gp)	n/a	Required		Required
144(gq)	n/a	Required		Required
144(gr)	n/a	Required		Required
144(gs)	n/a	Required		Required
144(gt)	n/a	Required		Required
144(gu)	n/a	Required		Required
144(gv)	n/a	Required		Required
144(gw)	n/a	Required		Required
144(gx)	n/a	Required		Required
144(gy)	n/a	Required		Required
144(gz)	n/a	Required		Required
144(ha)	n/a	Required		Required
144(hb)	n/a	Required		Required
144(hc)	n/a	Required		Required
144(hd)	n/a	Required		Required
144(he)	n/a	Required		Required
144(hf)	n/a	Required		Required
144(hg)	n/a	Required		Required
144(hh)	n/a	Required		Required
144(hi)	n/a	Required		Required
144(hj)	n/a	Required		Required
144(hk)	n/a	Required		Required
144(hl)	n/a	Required		Required
144(hm)	n/a	Required		Required
144(hn)	n/a	Required		Required
144(ho)	n/a	Required		Required
144(hp)	n/a	Required		Required
144(hq)	n/a	Required		Required
144(hr)	n/a	Required		Required
144(hs)	n/a	Required		Required
144(ht)	n/a	Required		Required
144(hu)	n/a	Required		Required
144(hv)	n/a	Required		Required
144(hw)	n/a	Required		Required
144(hx)	n/a	Required		Required
144(hy)	n/a	Required		Required
144(hz)	n/a	Required		Required
144(ia)	n/a	Required		Required
144(ib)	n/a	Required		Required
144(ic)	n/a	Required		Required
144(id)	n/a	Required		Required
144(ie)	n/a	Required		Required
144(if)	n/a	Required		Required
144(ig)	n/a	Required		Required
144(ih)	n/a	Required		Required
144(ii)	n/a	Required		Required
144(ij)	n/a	Required		Required
144(ik)	n/a	Required		Required
144(il)	n/a	Required		Required
144(im)	n/a	Required		Required
144(in)	n/a	Required		Required
144(io)	n/a	Required		Required
144(ip)	n/a	Required		Required
144(iq)	n/a	Required		Required
144(ir)	n/a	Required		Required
144(is)	n/a	Required		Required
144(it)	n/a	Required		Required
144(iu)	n/a	Required		Required
144(iv)	n/a	Required		Required
144(iw)	n/a	Required		Required
144(ix)	n/a	Required		Required
144(iy)	n/a	Required		Required
144(iz)	n/a	Required		Required
144(ja)	n/a	Required		Required
144(jb)	n/a	Required		Required
144(jc)	n/a	Required		Required
144(jd)	n/a	Required		Required
144(je)	n/a	Required		Required
144(jf)	n/a	Required		Required
144(jg)	n/a	Required		Required
144(jh)	n/a	Required		Required
144(ji)	n/a	Required		Required
144(jj)	n/a	Required		Required
144(jk)	n/a	Required		Required
144(jl)	n/a	Required		Required
144(jm)	n/a	Required		Required
144(jn)	n/a	Required		Required
144(jo)	n/a	Required		Required
144(jp)	n/a	Required		Required
144(jq)	n/a	Required		Required
144(jr)	n/a	Required		Required
144(js)	n/a	Required		Required
144(jt)	n/a	Required		Required
144(ju)	n/a	Required		Required
144(jv)	n/a	Required		Required
144(jw)	n/a	Required		Required
144(jx)	n/a	Required		Required
144(jy)	n/a	Required		Required
144(jz)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ki)	n/a	Required		Required
144(kj)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		Required
144(kd)	n/a	Required		Required
144(ke)	n/a	Required		Required
144(kf)	n/a	Required		Required
144(kg)	n/a	Required		Required
144(kh)	n/a	Required		Required
144(ka)	n/a	Required		Required
144(kb)	n/a	Required		Required
144(kc)	n/a	Required		