SUPPLY 7150.

0.30

1.00 5.468

REPORT- SV	7-A System	Design Para	meters for	RTU-1 (Co	orridor DO	DAS) SYS	36		WEATH	ER FILE- SE	ATTLE BOEIN	G FI WA
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLIN CAPACIT (KBTU/HF	ry sei	SIBLE	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	20477.3	0.	1.000	341.77	77	0.601	-330.577	0.211	0.218	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)		STATIC PRESSURE N-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)		AN FAI NT CONTROI			

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	ī	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY		ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
Zn L5 W (G.W12) COR	303.	0.	0.000	1.000	303.	0.00	0.00	7.53	0.00	-13.10	1.
Zn L6 C (G.C14) COR	276.	0.	0.000	1.000	276.	0.00	0.00	6.85	0.00	-11.91	1.
Zn L7 C (G.C14) COR	275.	0.	0.000	1.000	275.	0.00	0.00	6.84	0.00	-11.89	1.
Zn L15 C (G.C10) COR	544.	0.	0.000	1.000	544.	0.00	0.00	13.52	0.00	-23.52	1.
Zn L17 C (M.C25) COR	214.	0.	0.000	1.000	214.	0.00	0.00	5.31	0.00	-9.24	10.
Zn L28 C (G.C7) COR	233.	0.	0.000	1.000	233.	0.00	0.00	5.80	0.00	-10.08	1.
Zn L29 E (G.ENE2) COR	638.	0.	0.000	1.000	638.	0.00	0.00	15.84	0.00	-34.44	1.
Zn L5 C (G.C13) COR	360.	0.	0.000	1.000	360.	0.00	0.00	8.94	0.00	-15.55	1.
Zn L8 C (M.C29) COR	275.	0.	0.000	1.000	275.	0.00	0.00	6.84	0.00	-11.90	6.
Zn L14 C (T.C44) COR	295.	0.	0.000	1.000	295.	0.00	0.00	7.34	0.00	-12.76	1.
Zn L16 C (G.C10) COR	214.	0.	0.000	1.000	214.	0.00	0.00	5.31	0.00	-9.24	1.
Zn L27 C (T.C40) COR	219.	0.	0.000	1.000	219.	0.00	0.00	5.44	0.00	-9.47	1.

2.36 0.0 0.00 0.00 DRAW-THRU CONSTANT 1.00

						,							
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)			AIR CA	OOLING PACITY S TU/HR)	EENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	SUPP-HEA	AT	
PVVT	1.000	2956.7		0. 1.	000	73.356	0.634	-69.301	0.269	0.285	-146.14	12	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMANI (KW)	DELTA-T		URE EF	F EFF	· FA			O RAT	IO	
SUPPLY	1650.	1.00	1.338	3 2.51		0.0 0.0	0.00	DRAW-THE	RU CONSTAN	NT 1.0	0 0.1	30	
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)		SENSIBLE	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE
Zn L1 C (0	B.C9) COR UB.C14) COR	2	37. 149. 134. 235.	0. 0. 0.	0.000 0.000 0.000 0.000	1.000 1.000 1.000 1.000	37. 149. 134. 235. 96.	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.40 3.71 3.34 5.84 2.40	0.00 0.00 0.00 0.00	-1.59 -6.45 -5.81 -10.15	1. 1. 1.
Zn L1 S (C	G.S16) COR BB.C5) COR B.C4) COR G.C2) COR		149. 134. 115. 185.	0. 0. 0. 0.	0.000 0.000 0.000 0.000	1.000 1.000 1.000 1.000	149. 134. 115. 185.	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3.71 3.33 2.86 4.59 4.74	0.00 0.00 0.00 0.00	-6.45 -5.80 -4.98 -7.98	1. 1. 1.
Zn L4 C (0			223.	0.	0.000	1.000	223.		0.00	5.55	0.00	-9.64	

1474.

0.

0.000

Zn L1 N (G.NNW2) RTL

(FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULT 0.000 0. 0.00 0.00 31.85 0.00 -10.15 1.

REPORT- SV	/-A System De	esign Parameters	for	L1 Retail	Split Syste	em N		WEATHER	FILE- SI	EATTLE BOEING F	I WA
CVCTEM	ALTITUDE	FLOOR	MAY	OUTSIDE	COOLING	CENCIBI.E	HEATING CAPACITY	COOLING	HEATING	HEAT PUMP	

		FLOOR		OUTSII	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A:	IR CAPACI	TY SI	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2831.6	47.	0.00	38.0	71	0.775	-38.417	0.261	0.259	-9.815	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	L MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFI	F EFF	FA	AN FA	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
GUDDI V	1474.	1 00	0 422	0 01	1.2	0.50	0 0.62	DD 311 MIII	ara tr	a 1.00	0 20	
SUPPLY	14/4.	1.00	0.433	0.91	1.2	0.50	0 0.62	DRAW-THE	RU CYCLIN	G 1.00	0.30	
		SI	UPPLY EX	HAUST	MI	NIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		((CFM) (CFM)	(KW) (FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT

REPORT- SV-A System Design Parameters for L1 Sys1 (PVVT) (G.N14)

		FLOOR		OUTSI	DE CC	OLING		HEATING	COOLING	HEATING	HEAT PUM	IP	
SYSTEM	ALTITUDE	AREA	MA	X P	IR CAF	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA	T	
TYPE	FACTOR	(SQFT)	PEOPL	E RAT	'IO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	1)	
PVVT	1.000	2636.9	85	. 0.0	000 7	2.000	0.758	-74.488	0.225	0.217	0.00	0	
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH			MAX FA	N MIN FA	N	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EI	FF EFF	FA	AN FA	N RATI	O RATI	0	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC) (FRAC	!)	
SUPPLY	2637.	1.00	0.774	0.91	1	2 0.5	0.62	DRAW-THE	RU CYCLIN	IG 1.0	0 0.3	0	
		S	UPPLY E	XHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L1 C (G	G.C4) LOB		250.	0.	0.000	1.000	0.	0.00	0.00	4.62	0.00	-8.92	1.
Zn L1 N (G	3.N14) LOB		2302.	0.	0.000	1.000	0.	0.00	0.00	42.53	0.00	-82.05	1.
Zn L1 C (G	3.C5) RR		84.	0.	0.000	1.000	0.	0.00	0.00	2.91	0.00	-3.65	1.

REPORT- SV-A System Design Parameters for	L1 Retail	Split System S		WEATHER	FILE- SE	EATTLE B	BOEING E	FI WA
FLOOR	OUTSIDE	COOLING	HEATING	COOLING	HEATING	HEAT P	PUMP	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		IR CAPAC	ITY S	ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	5434.4	91.	0.0	00 84.	599	0.782	-80.480	0.268	0.281	-32.024	
		DIVERSITY	POWER	FAN	STATIC					MAX FAI		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EF1						
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC) (FRAC)	PLACEMEN	T CONTRO	L (FRAC)) (FRAC)	
SUPPLY	3328.	1.00	0.998	0.93	0.0	0.0	0.00	DRAW-THE	RU SPEE	D 1.00	0.30	
ZONE		S	UPPLY EX	HAUST FLOW	M. FAN	INIMUM FLOW	OUTSIDE AIR FLOW		E: SENSIBLE	XTRACTION RATE	HEATING CAPACITY	ADDITION RATE ZONE
NAME		(CFM)		(FRAC)	(CFM)	(KBTU/HR)				KBTU/HR) MULT
			0111 /	U111 /	(2011)	(11410)	(0111)	(IdDIO) III()	(11410)	(Italio) III()	(ICDIO/IIIC) (idio, mi, nobi

Zn L1 E (G.ENE18) RTL 2958. 0. 0.000 0.000 0. 0.00 63.90 0.00 -19.95 1. Zn L2 N (G.NE9) RTL 144. 0. 0.000 1.000 0. 0.00 0.00 3.12 0.00 -5.15 1. Zn L2 S (G.SE10) RTL 225. 0. 0.000 1.000 0. 0.00 0.00 4.87 0.00 -8.03 1.

				-									
		FLOOR		OUTSI	DE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUM	IP	
SYSTEM	ALTITUDE	AREA	MAX	Λ Σ	IR CAE	PACITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA	T	
TYPE	FACTOR	(SQFT)	PEOPLE	E RAT	IO (KBT	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	1)	
PTAC	1.000	812.1	3.	0.0	00	0.000	0.000	0.000	0.261	0.259	-1.92	9	
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	L MECH			MAX FA	N MIN FA	N	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	FA	AN FA	AN RATI	O RATI	0	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC) (FRAC)	PLACEMEN	T CONTRO)L (FRAC	(FRAC	!)	
SUPPLY	69.	0.00	0.001	2.51	(0.0	0.00	BLOW-THF	RU CYCLIN	IG 0.0	0.0	0	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	1
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZON
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MUL
Zn L3 S (G	.S9) OFF		59.	0.	0.048	1.000	0.	2.82	0.63	2.56	-2.84	-2.09) 1
Zn L3 C (G	.C10) STO		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	3 1

WEATHER	FILE-	SEATTLE	BOEING	FI	WA	

		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	Z P	AIR CAF	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	?
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBI	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR))
PVVT	1.000	562.9	4.	0.0	000	6.158	0.803	-5.927	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	AL MECH	Ī		MAX FAN	MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	FF EFF	F	AN FAI	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	CR) (FRAC	C) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	223.	1.00	0.067	0.93	C	0.0	0.00	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L4 C (G	G.C6) RR		223.	0.	0.000	1.000	0.	0.00	0.00	4.81	0.00	-7.93 1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.W8)

	-	_		-								
		FLOOR		OUTS		OOLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	I I	AIR CA	PACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Γ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	1197.3	8.	0.0	000	38.225	0.843	-39.568	0.225	0.218	0.00)
		DIVERSITY	POWER	FAN	STA'	FIC TOTA	AL MECH	[MAX FAI	N MIN FA	4
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	JRE E	FF EFF	F	AN FA	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	1474.	1.00	0.432	0.91	:	1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.3)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW				RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L4 W (G	G.W8) OFF		1474.	0.	0.000	1.000	0.	0.00	0.00	31.84	0.00	-52.53 1.

REPORT- SV	7-A System	Design Para	meters for	L4 Sys	1 (PVVT)	(G.S9)			WEATH	ER FILE- SE	ATTLE BOEI	NG FI WA
		FLOOR		OUTSI	DE COO	LING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPA	CITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBTU	/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2458.5	17.	0.0	00 39	.402	0.816	-40.772	0.225	0.218	0.000	
		DIVERSITY	POWER	FAN	STATI	C TOTA	L MECH	I.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUR	E EF	F EFF	F.	AN FAI	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1456.	1.00	0.427	0.91	1.	2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		SI	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		((CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT

Zn L4 S (G.S9) OFF 1456. 0. 0.000 1.000 0. 0.00 31.45 0.00 -51.89 1.

REFORT DV	A Dyscem	Design rara	mecers for	L4 Sys	SI (FVVI)	(G.E10)			WEATH	EK FIDE SE	ATTE BOE.	.NG FI WA
		FLOOR		OUTSI	IDE COC	LING		HEATING	COOLING	HEATING	HEAT PUMI	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPA	CITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	TIO (KBTU	J/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1197.7	8.	0.0	000 26	5.377	0.825	-27.339	0.226	0.218	0.000)
		DIVERSITY	POWER	FAN	STATI	C TOTA	AL MECH	I		MAX FAN	N MIN FAI	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUR	E El	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER	(FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	988.	1.00	0.290	0.91	1.	2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L4 E (G	3.E10) OFF		988.	0.	0.000	1.000	0.	0.00	0.00	21.35	0.00	-35.23 1.

REPORT- S	SV-A	System	Design	Parameters	for	L4	Sys1	(PVVT)	(G.N11)
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REPORT- SV	-A System	Design Para	meters for	L4 Sys	1 (PVVT)	(G.N11)			WEATH	ER FILE- SE	ATTLE BOE	ING FI WA
		FLOOR		OUTSI	DE COO	LING		HEATING	COOLING	HEATING	HEAT PUM	>
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPA	CITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	?
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU	/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	2234.4	16.	0.0	00 32	.690	0.813	-33.867	0.226	0.218	0.000)
		DIVERSITY	POWER	FAN	STATI	C TOTA	AL MECH	I		MAX FAN	MIN FA	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUR:	E EF	FF EFF	r F	AN FAI	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER) (FRAC	(FRAC)	PLACEMEI	NT CONTROL	L (FRAC)	(FRAC	
SUPPLY	1201.	1.00	0.352	0.91	1.	2 0.5	0.62	2 DRAW-THI	RU CYCLING	J 1.00	0.30)
ZONE		S	UPPLY EXI	HAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE		EZ SENSIBLE	XTRACTION RATE	HEATING CAPACITY	ADDITION RATE ZONE
NAME		(CFM)	(KW)	(FRAC)	(CFM)					KBTU/HR) MULT

Zn L4 N (G.N11) OFF 1201. 0. 0.000 1.000 0. 0.00 25.94 0.00 -42.81 1.

		FLOOR		OUTSI	DE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX		IR CAI	PACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	5388.9	38.	0.0	000 !	55.517	0.801	-57.400	0.225	0.217	0.000)
		DIVERSITY	POWER	FAN	STA	FIC TOT.	AL MECH	I		MAX FAN	MIN FAI	I
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE E	FF EFF	F	AN FA	N RATIO	RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	1999.	1.00	0.587	0.91	=	1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	· E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR)	KBTU/HR) MULT
Zn L4 C (G	G.C12) OFF		1999.	0.	0.000	1.000	0.	0.00	0.00	43.17	0.00	-71.24 1.

REPORT- SV	-A System	Design Para	meters for	L4 Sys1	L (PVVT) (G.C13)			WEATH	ER FILE- SE	ATTLE BOEIN	G FI WA
		FLOOR		OUTSII	DE COOL	ING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	Al	IR CAPAC	ITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RATI	IO (KBTU/	HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	3915.1	27.	0.00	00 41.	482	0.802	-42.944	0.225	0.218	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTA	L MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EF:	F EFF	F	AN FAI	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F) ((IN-WATER)	(FRAC) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1497.	1.00	0.439	0.91	1.2	0.5	0 0.62	DRAW-TH	RU CYCLIN	g 1.00	0.30	
ZONE			FLOW	HAUST FLOW	FAN	INIMUM FLOW	OUTSIDE AIR FLOW	CAPACITY	SENSIBLE		CAPACITY	DDITION RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (K	BTU/HR) MULT

Zn L4 C (G.Cl3) OFF 1497. 0. 0.000 1.000 0. 0.00 32.33 0.00 -53.35 1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.W6) WEATHER FILE- SEATTLE BOEING FI WA

GYGTEM	AT DEDITOR	FLOOR	MAY	OUTSID			ENSIBLE	HEATING	COOLING EIR	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	AI				CAPACITY		EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RATI	O (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1411.5	3.	0.00	0 18.4	30	0.834	-17.737	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL				MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	F EFF	FA	AN FAI	N RATIO) RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F) (IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	IT CONTROI	L (FRAC)	(FRAC)	
SUPPLY	700.	1.00	0.205	0.91	1.2	0.50	0.62	DRAW-THE	RU CYCLING	3 1.00	0.30	
		Sī	JPPLY EXF	HAUST	MI	NIMUM	OUTSIDE	COOLING	ΕΣ	KTRACTION	HEATING A	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME												KBTU/HR) MULT
NAME		((CFM) (C	CFM)	(KW) (FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(VRIO/HK) (KBTU/HR) (I	(BIU/RK) MULT

Zn L5 W (G.W6) APT1 700. 85. 0.061 1.000 0. 0.00 15.13 0.00 -24.96 1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.S7)

WEATHER	FILE-	SEATTLE	BOEING	FI	WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		IR CAP	OOLING PACITY S	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	1
PVVT	1.000	4144.8	8 .	0.0	100 2	22.549	0.838	-21.697	0.210	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH	[MAX FAN	MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	' FA	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	862.	1.00	0.253	0.91	1	2 0.5	0.62	DRAW-THE	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE		CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L5 S (G	3.S7) APT3		862.	249.	0.178	1.000	0.	0.00	0.00	18.63	0.00	-30.74 1.

REPORT- SV-A	System Design	Parameters	for	L5 Sys1	(P\/\/T\)	(G ESE8)

REPORT- SV	-A System	Design Para	meters for	L5 Sys	1 (PVVT) (G	.ESE8)			WEATH	ER FILE- SE	ATTLE BOEIN	G FI WA
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SEN	SIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1518.1	3.	0.00	00 16.7	92	0.843	-15.149	0.197	0.218	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F F	AN FA	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	648.	1.00	0.190	0.91	1.2	0.50	0.62	2 DRAW-THI	RU CYCLIN	G 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L5 E (G.ESE8) APT1	648.	91.	0.065	1.000	0.	0.00	0.00	13.99	0.00	-23.08	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.ENE9)

FLOOR OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP SYSTEM ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR EIR SUPP-HEAT TYPE FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (KBTU/HR) PVVT 1.000 1445.8 3. 0.000 9.329 0.839 -8.975 0.210 0.219 0.000 DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN MIN FAN FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30														
TYPE FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 1445.8 3. 0.000 9.329 0.839 -8.975 0.210 0.219 0.000 Diversity Power Fan Static Total Mech Max Fan Max Fan Min Fan Fan Capacity Factor Demand Delta-t Pressure Eff Eff Fan Fan Ratio Ratio Type (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30			FLOOR		OUTSI	DE COO	OLING		HEATING	COOLING	HEATING	HEAT PUME		
PVVT 1.000 1445.8 3. 0.000 9.329 0.839 -8.975 0.210 0.219 0.000 FAN CAPACITY FACTOR DEMAND TYPE (CFM) DELTA-T PRESSURE FF FF FF FAN FAN RATIO RATIO TYPE (CFM) FAN (FRAC) (FRAC) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30	SYSTEM	ALTITUDE	E AREA	MAX	A	IR CAP	ACITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	7	
DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN MIN FAN FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30	TYPE	FACTOR	R (SQFT)	PEOPLE	RAT	IO (KBT	J/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN MIN FAN FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30														
FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30	PVVT	1.000	0 1445.8	3.	0.0	00	9.329	0.839	-8.975	0.210	0.219	0.000)	
FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30														
FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30														
TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30			DIVERSITY	POWER	FAN	STAT	IC TOTA	L MECH			MAX FAN	MIN FAN	1	
SUPPLY 357. 1.00 0.105 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30	FAN	CAPACITY	Y FACTOR	DEMAND	DELTA-T	PRESSUE	RE EF	F EFF	FA	AN FAI	N RATIO	RATIO)	
	TYPE	(CFM)) (FRAC)	(KW)	(F)	(IN-WATER	R) (FRAC) (FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)		
SUIDDLY FYHAUST MINIMUM OUTSIDE COOLING FYTRACTION HEATING ADDITION	SUPPLY	357.	1.00	0.105	0.91	1.	.2 0.5	0 0.62	DRAW-THE	RU CYCLING	G 1.00	0.30)	
SUIDDLY FYHAUST MINIMUM OUTSIDE COOLING FYTRACTION HEATING ADDITION														
SUDDLY EXHAUST MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION														
DOTTEL BARROOT MINIMUM COUNTING COORING EXTRACTION HEATING ADDITION			S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE FLOW FLOW FAN FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE ZONE	ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME (CFM) (CFM) (KW) (FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULT	NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR)	MULT
Zn L5 E (G.ENE9) APT1 357. 87. 0.062 1.000 0. 0.00 0.00 7.72 0.00 -12.74 1.	Zn L5 E (G	G.ENE9) APT	PT1	357.	87.	0.062	1.000	0.	0.00	0.00	7.72	0.00	-12.74	1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		AIR CA	OOLING PACITY : TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	?
PVVT	1.000	1353.9	3.	0.0	000	18.619	0.835	-17.918	0.211	0.219	0.000)
EAN	GADAGIEW.	DIVERSITY	POWER	FAN	STA'					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	709.	1.00	0.208	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR) (KBTU/HR) MULT
Zn L5 W (G	G.W10) APT1		709.	81.	0.058	1.000	0.	0.00	0.00	15.30	0.00	-25.25 1.

	/				((
		FLOOR		OUTSI	DE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUME	>
SYSTEM	ALTITUDE	AREA	MAX	P	AIR CAI	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	3993.7	7.	0.0	000 2	22.723	0.816	-21.868	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	TIC TOTA	AL MECH	I		MAX FAN	N MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EI	FF EFF	' F.	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	839.	1.00	0.246	0.91	1	1.2 0.5	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L5 N (G	3.N11) APT3	1	839.	240.	0.172	1.000	0.	0.00	0.00	18.13	0.00	-29.92 1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.WSW5)

	/	Debign rara		2)	(- 1)						
		FLOOR		OUTS	IDE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	TIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	956.7	2.	0.0	000 1	3.378	0.835	-12.865	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOT	AL MECH	I		MAX FAN	MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	F	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	510.	1.00	0.150	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L6 W (G	G.WSW5) APT	1:1	510.	58.	0.041	1.000	0.	0.00	0.00	11.01	0.00	-18.17 1.

		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	1
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2069.4	4.	0.0	000 1	5.784	0.841	-15.190	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH			MAX FAN	I MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	F EFF	F	AN FAI	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	607.	1.00	0.178	0.91	1	.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		s	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L6 S (G	G.S6) APT3		607.	124.	0.089	1.000	0.	0.00	0.00	13.11	0.00	-21.63 1.

REPORT- SV	/-A System D	esign Param	eters for	L6 Sys1 (PVVT) (G.ES	E7)		WEATH	ER FILE- SH	EATTLE BOEING FI	WA
		FLOOR		OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	

PVVT	1.000	1233.6	2.	0.0	10.3	59	0.841	-9.964	0.210	0.219	0.000
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	398.	1.00	0.117	0.91	1.2	0.50	0.62	DRAW-THRU	CYCLING	1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L6 E (G.ESE7) APT1	398.	74.	0.053	1.000	0.	0.00	0.00	8.61	0.00	-14.20	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.W8)

	-	_		-								
		FLOOR		OUTSI	DE C	OOLING		HEATING	COOLING	HEATING	HEAT PUM	•
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CA	PACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Г
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	640.8	1.	0.0	00	8.385	0.839	-8.068	0.210	0.219	0.00)
		DIVERSITY	POWER	FAN	STA	TIC TOT	AL MECH	Į.		MAX FAI	N MIN FAI	Ŋ
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	321.	1.00	0.094	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.3)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU
Zn L6 W (G	G.W8) APT1		321.	39.	0.028	1.000	0.	0.00	0.00	6.93	0.00	-11.44

Zn L6 N (G.NW9) APT1

0.00 0.00

9.64

0.00 -15.91 1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NW9)

WEATHER FILE- SEATTLE BOEING FI WA .____ FLOOR MAX OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) SYSTEM ALTITUDE AREA TYPE FACTOR (SQFT) EIR EIR SUPP-HEAT PEOPLE (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 925.4 2. 0.000 11.742 0.834 -11.296 0.210 0.219 0.000 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF DIVERSITY MAX FAN MIN FAN FAN FAN FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 446. 1.00 0.131 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30 EXTRACTION HEATING ADDITION SUPPLY EXHAUST MINIMUM OUTSIDE COOLING RATE CAPACITY FAN FLOW AIR FLOW CAPACITY SENSIBLE ZONE FLOW FLOW RATE ZONE NAME (CFM) (CFM) (KW) (FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) MULT

446. 56. 0.040 1.000 0.

ZONE

NAME

Zn L6 N (G.NE10) APT1

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NE10)

SUPPLY EXHAUST

FLOW

(CFM)

45.

FLOW

(CFM)

168.

FAN

0.032

MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE

(FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULT

0.00 3.63

RATE ZONE

0.00 -5.99 1.

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI				HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	L A	IR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SOFT)	PEOPLE	RAT	IO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	749.0	1.	0.0	000 4.5	30	0.818	-4.370	0.211	0.219	0.000
LVVI	1.000	745.0	Δ.	0.0	100 4.5	35	0.010	4.570	0.211	0.21	0.000
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA.	AN FAI	N RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	(FRAC)	(FRAC)
IIPE	(CFM)	(PRAC)	(ICW)	(f)	(TIM MATER)	(I ICAC)	(PRAC)	FLACEMEN	VI CONTROL	(FRAC)	(PRAC)
SUPPLY	168.	1.00	0.049	0.91	1.2	0.50	0.62	DRAW-THE	RU CYCLING	1.00	0.30

1.000

0. 0.00

	_	_		1								
SYSTEM	ALTITUDE	FLOOR AREA	MA.	OUTS		OLING ACITY S	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMI	
TYPE	FACTOR	(SOFT)	PEOPLI			U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	711.4	1	. 0.0	000	5.302	0.823	-5.104	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH			MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC	
SUPPLY	198.	1.00	0.058	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	rg 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE		_	FLOW	FLOW	FAN	FLOW	AIR FLOW			RATE	CAPACITY	RATE ZONE
NAME		((CFM)	(KW)	(FRAC)		(KBTU/HR)				KBTU/HR) MULT
Zn L6 N (G	G.NW11) APT	1:	198.	43.	0.031	1.000	0.	0.00	0.00	4.28	0.00	-7.06 1

	-	_		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAX		IR CAI		ENSIBLE	HEATING CAPACITY	COOLING	HEATING EIR	HEAT PUMP	1
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KB'	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1265.9	2.	0.0	00	7.012	0.838	-6.747	0.210	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	F F	AN FA	N RATIC	RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	(FRAC)	PLACEMEI	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	268.	1.00	0.079	0.91	1	1.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L6 N (G	.NE12) APT	1:1	268.	76.	0.054	1.000	0.	0.00	0.00	5.79	0.00	-9.55 1.

REPORT- SV-A	System	Design	Parameters	for	1.6	Svs1	(P\/\/T\)	(G ESE13)

	-	_		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAX		AIR CAE		ENSIBLE	HEATING CAPACITY	COOLING	HEATING EIR	HEAT PUMP	1
TYPE	FACTOR	(SQFT)	PEOPLI	E RAT	.10 (KB.	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	679.6	1	. 0.0	000	3.316	0.829	-3.192	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	F.	AN FA	N RATIC) RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	125.	1.00	0.037	0.91	1	0.5	0 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L6 E (G	.ESE13) AF	T1	125.	41.	0.029	1.000	0.	0.00	0.00	2.70	0.00	-4.46 1.

						(0	, 					
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAE	PACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBI	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	956.7	2.	0.0	000 1	.3.339	0.835	-12.828	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	AL MECH			MAX FAN	MIN FAI	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	FF EFF	F.	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	508.	1.00	0.149	0.91	1	2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR)	KBTU/HR) MULT
Zn L7 W (G	G.WSW5) APT	1	508.	58.	0.041	1.000	0.	0.00	0.00	10.98	0.00	-18.11 1.

		FLOOR		OUTSI		OOLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAP	PACITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	1
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2069.4	4.	0.0	000 1	5.934	0.841	-15.335	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	L MECH			MAX FAN	I MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	' FA	AN FAI	N RATIO	RATIO	1
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	CR) (FRAC	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	613.	1.00	0.180	0.91	1	2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		s	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(KW)	(FRAC)	(CFM)					KBTU/HR) MULT
Zn L7 S (G	G.S6) APT3		613.	124.	0.089	1.000	0.	0.00	0.00	13.24	0.00	-21.84 1.

ZONE

NAME

Zn L7 E (G.ESE7) APT1

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.ESE7)

SUPPLY EXHAUST

FLOW

(CFM)

74.

FLOW

(CFM)

388.

FAN

0.053

MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE ZONE

(FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULT

0.00

8.38

0.00 -13.83 1.

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		IR CAPACI	TY SEN	ISIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVVT	1.000	1233.6	2.	0.0	10.0	90	0.841	-9.705	0.210	0.219	0.000
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STATIC PRESSURE	TOTAL EFF	MECH EFF		AN FAI	MAX FAN N RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F) 0.91	(IN-WATER)	(FRAC)	(FRAC)			, -,	(FRAC)

1.000

0. 0.00

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		AIR CA	OOLING PACITY S TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	?
PVVT	1.000	640.8	1.	0.0	000	7.853	0.834	-7.556	0.210	0.219	0.000)
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA'				AN FAI	MAX FAN N RATIO		
TYPE	(CFM)	(FRAC)	(KW)	(F·)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEMEI	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	298.	1.00	0.088	0.91	:	1.2 0.9	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR) (KBTU/HR) MULT
Zn L7 W (G	.W8) APT1		298.	39.	0.028	1.000	0.	0.00	0.00	6.44	0.00	-10.63 1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NW9)

	•	-		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAX	OUTSI		DOLING PACITY S	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMI	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR))
PVVT	1.000	938.6	2.	0.0	00	12.008	0.834	-11.551	0.210	0.219	0.000	
		DIVERSITY	POWER	FAN	STA	ric tota	AL MECH	I		MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE E	F EFF	' F.	AN FA	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)) (FRAC)
SUPPLY	456.	1.00	0.134	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	(KBTU/HR) MULT
Zn L7 N (G	.NW9) APT1		456.	56.	0.040	1.000	0.	0.00	0.00	9.86	0.00	-16.27 1.

REPORT- SV-A System Design Parameters	for	L7 Sys1	(PVVT)	(G.NE10)
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REPORT- SV	-A System	Design Para	meters for	L7 Sys1	. (PVVT) (G.NE10)			WEATH	ER FILE- SE	ATTLE BOEI	NG FI WA
		FLOOR		OUTSII				HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM TYPE	ALTITUDE FACTOR	AREA (SOFT)	MAX PEOPLE	AI RATI			NSIBLE (SHR)	CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT	1.000	681.8	1.	0.00		566	0.820	-4.395	0.211	0.219	0.000	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STATIC PRESSURE				AN FAI	MAX FAN N RATIO		
TYPE	(CFM)	(FRAC)	(KW)	(F) (IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	170.	1.00	0.050	0.91	1.2	0.50	0.62	DRAW-THF	RU CYCLIN	J 1.00	0.30	
ZONE		S		IAUST FLOW	M FAN	INIMUM FLOW	OUTSIDE AIR FLOW		EX SENSIBLE	XTRACTION RATE	HEATING Z	ADDITION RATE ZONE
NAME		(PHOW	(KW)	(FRAC)	(CFM)	(KBTU/HR)				KATE ZONE KBTU/HR) MULT

Zn L7 N (G.NE10) APT1 170. 41. 0.029 1.000 0. 0.00 0.00 3.67 0.00 -6.05 1.

	/	Debign rara			((0.1	,					
		FLOOR		OUTS	IDE CC	OLING		HEATING	COOLING	HEATING	HEAT PUM)
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	TIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	1
PVVT	1.000	711.4	1.	0.0	000	5.323	0.823	-5.124	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	'IC TOTA	AL MECH	I		MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	1
SUPPLY	199.	1.00	0.058	0.91	1	.2 0.9	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L7 N (G	G.NW11) APT	1	199.	43.	0.031	1.000	0.	0.00	0.00	4.30	0.00	-7.09 1.

							, 					
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1265.9	2.	0.0	000	7.856	0.839	-7.559	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH	Ī		MAX FAN	MIN FAN	ı
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	F.	AN FA	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	301.	1.00	0.088	0.91	1	.2 0.!	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L7 N (G.NE12) APT1 30		301.	76.	0.054	1.000	0.	0.00	0.00	6.50	0.00	-10.72 1.	

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.ESE13)

		FLOOR		OUTS		OLING		HEATING	COOLING	HEATING	HEAT PUMI	
SYSTEM	ALTITUDE	AREA	MAX				SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPL			U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	679.6	1	. 0.0	000	3.149	0.835	-3.031	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	'IC TOTA	AL MECH	Ī		MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	FF EFF	F	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	C) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC	(FRAC	
SUPPLY	120.	1.00	0.035	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY E	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	KBTU/HR) MULT
Zn L7 E (G	E.ESE13) AP	r1	120.	41.	0.029	1.000	0.	0.00	0.00	2.59	0.00	-4.28 1.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.WSW20)

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	DE COC	LING		HEATING	COOLING	HEATING	HEAT PUM	P	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPA	CITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA	T	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU	J/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	.)	
PVVT	1.000	5740.4	11.	0.0	00 88	3.026	0.840	-84.636	0.210	0.218	0.00	0	
		DIVERSITY	POWER	FAN	STATI	C TOT	AL MECH	I		MAX FA	N MIN FA	N	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUE	E E	FF EFF	FA FA	AN FA	AN RATI	O RATI	0	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER	(FRA	C) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC) (FRAC	!)	
SUPPLY	3379.	1.00	0.991	0.91	1.	2 0.	50 0.62	DRAW-THE	RU CYCLIN	IG 1.0	0 0.3	0	
		SI	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME		((CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT

Zn L8 W (M.WSW20) APT1 563. 58. 0.041 1.000 0. 0.00 12.16 0.00 -20.07 6.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MA) PEOPLI		IR CAP.	OLING ACITY S U/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	ı
PVVT	1.000	12416.1	23	. 0.0	00 10	9.344	0.842	-105.225	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	IC TOTA	L MECH			MAX FAN	MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	F EFF	' FA	AN FA	N RATIO	RATIO	1
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	4212.	1.00	1.236	0.91	1	.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		((CFM)	(KW)	(FRAC)	(CFM)			(KBTU/HR) (KBTU/HR) MULT
Zn L8 S (M	1.S21) APT3		702.	124.	0.089	1.000	0.	0.00	0.00	15.16	0.00	-25.02 6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.ESE22)

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		AIR CAF	OOLING PACITY S	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMI SUPP-HEAT (KBTU/HR)	
PVVT	1.000	7401.4	14	0.0	000 7	1.850	0.842	-69.097	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	AL MECH	[MAX FAN	MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	' FA	AN FAI	N RATIC) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC	
SUPPLY	2768.	1.00	0.812	0.91	1	2 0.5	0.62	DRAW-THE	RU CYCLING	g 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L8 E (M	1.ESE22) AP	т1	461.	74.	0.053	1.000	0.	0.00	0.00	9.96	0.00	-16.44 6.

		FLOOR		OUTS	IDE C	OOLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	ζ 1	AIR CA	PACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	E RAT	rio (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	3844.9	7.	. 0.0	000	52.102	0.839	-50.129	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	TIC TOTA	AL MECH	I		MAX FAN	N MIN FAN	I
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	F	AN FA	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1996.	1.00	0.586	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		s	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L8 W (M	1.W23) APT1		333.	39.	0.028	1.000	0.	0.00	0.00	7.19	0.00	-11.86 6.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SOFT)	MAX PEOPLI		AIR CA	OOLING PACITY TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)		г
TIPE	FACTOR	(SQFI)	PEOPLI	KA.	IIO (KB.	IU/HR)	(SHR)	(KBIU/HK)	(BIU/BIU)	(BIU/BIU)	(KBIU/HK)
PVVT	1.000	5631.6	11.	0.0	000	80.089	0.836	-77.031	0.210	0.219	0.00	0
		DIVERSITY	POWER	FAN	STA					MAX FAI		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE E	FF EFF	r F	AN FA	N RATIO	O RATI	0
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	3052.	1.00	0.896	0.91	:	1.2 0.	50 0.62	P DRAW-TH	RU CYCLIN	G 1.00	0 0.3	0
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L8 N (M	1.NW24) APT	1	509.	56.	0.040	1.000	0.	0.00	0.00	10.99	0.00	-18.13 6.

REPORT- SV	-A System D	esign Parame	eters for	L8 Sys1 (PVVT) (M.NE2	25)		WEATHER	FILE- S	EATTLE BOEING	FI WA
		FLOOR		OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
m	ma omon	(C C P P)	DECREE		(****	(07770)	(*** ***	(DOTT (DOTT) (DOTT (DOTT)	(*** ***	

		FLOOR		OUTSI	DE COOL	ING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPAC	ITY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU/	HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	4090.5	8.	0.0	00 32.	561	0.836	-31.340	0.211	0.219	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	L MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	F EFF	F	AN FA	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1241.	1.00	0.364	0.91	1.2	0.50	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
ZONE NAME			FLOW	HAUST FLOW CFM)	FAN (KW)	INIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)		SENSIBLE		CAPACITY	ADDITION RATE ZONE KBTU/HR) MULT

Zn L8 N (M.NE25) APT1 207. 41. 0.029 1.000 0. 0.00 4.47 0.00 -7.37 6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NW26)

	-	_		_								
SYSTEM	ALTITUDE	FLOOR AREA	MAX	OUTSI		OOLING PACITY S	ENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUME	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBT	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	4268.2	8.	0.0	100 4	11.553	0.839	-39.986	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	L MECH			MAX FAN	I MIN FAN	I
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	' FA	AN FA	N RATIC) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1592.	1.00	0.467	0.91	1	2 0.5	0 0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L8 N (M	I.NW26) APT	1	265.	43.	0.031	1.000	0.	0.00	0.00	5.73	0.00	-9.45 6.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		AIR CA	OOLING PACITY S TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	
PVVT	1.000	7595.5	14.	0.0	000	57.511	0.841	-55.325	0.210	0.219	0.000	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA'				an fa	MAX FAN N RATIC		
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	2209.	1.00	0.648	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L8 N (M	I.NE27) APT	1	368.	76.	0.054	1.000	0.	0.00	0.00	7.95	0.00	-13.12 6.

REPORT- SV-A System Design Parameters for	L8 Sys1 (PVVT) (M.ESE28)	WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR AREA	MA:	OUTS		OOLING PACITY S	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMI	
TYPE	FACTOR	(SOFT)	PEOPL			TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
IIFD	PACTOR	(SQFI)	FEOFE	2 IVA.	110 (111)	10/11()	(SIIIC)	(RBIO/III)	(BIO/BIO)	(BIO/BIO)	(KB10/IIK	1
PVVT	1.000	4077.3	8	. 0.0	000 2	24.620	0.839	-23.698	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	TIC TOT	AL MECH	Ī		MAX FAN	I MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	FF EFF	F	AN FA	N RATIC) RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	C) (FRAC)	PLACEMEI	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	943.	1.00	0.277	0.91	1	L.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		5	UPPLY E	KHAUST		MINIMUM	OUTSIDE	COOLING	я	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE		CAPACITY	RATE ZONE
NAME		((CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)				(KBTU/HR) MULT
14711111		,	J ,	()	(2011)	(11010)	(0111)	(12210/1110)	(11110)	(10210/1110) (1.010,1110,	(LEDIO, INC) FIGHT
Zn 1.8 E (N	4.ESE28) AF	т1	157.	41.	0.029	1.000	0.	0.00	0.00	3.39	0.00	-5.60 6.
(.			,				٠.	0.00	0.00	3.33	3.00	2.20 0.

Zn L14 W (T.WSW35) APT1

1.000 0. 0.00 0.00 13.51

0.00 -22.30 1.

REPORT- SV-A S	System Design	Parameters	for L14	Sys1	(PVVT)	(T.WSW35)
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626.

58.

0.041

REPORT- SV	-A System	Design Para	meters for	L14 Sys	s1 (PVVT)	(T.WSW3	5)		WEATH	ER FILE- SE	CATTLE BOEI	NG FI WA
		FLOOR		OUTSI	DE COO	LING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A.	IR CAPA	CITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU	/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	956.7	2.	0.0	00 16	.279	0.841	-14.686	0.197	0.218	0.000	
		DIVERSITY	POWER	FAN	STATI	C TOTA	L MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUR	E EF	F EFF	F	AN FAI	N RATIC	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER) (FRAC	(FRAC)	PLACEMEI	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	626.	1.00	0.184	0.91	1.	2 0.5	0 0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		SI	UPPLY EXI	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING .	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		((CFM) (0	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT

REPORT- SV-A	System Design	Parameters	for	L14 Svs1	(TV/V/T)	(T S36)

		FLOOR		OUTSI	IDE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	ζ /	AIR CAI	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLI	E RAT	rio (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2069.4	4	. 0.0	000 2	21.559	0.843	-20.744	0.210	0.219	0.000	
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH			MAX FAN	I MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	F EFF	F	AN FA	N RATIC	RATIC	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	832.	1.00	0.244	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)				KBTU/HR) MULT
Zn L14 S (T.S36) APT	'3	832.	124.	0.089	1.000	0.	0.00	0.00	17.97	0.00	-29.65 1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.ESE37)

	-	-		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAX	OUTS		DOLING PACITY S	SENSIBLE	HEATING CAPACITY	COOLING	HEATING EIR	HEAT PUMI	
TYPE	FACTOR	(SQFT)	PEOPLI			ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	1233.6	2 .	. 0.0	000	16.585	0.844	-14.962	0.197	0.218	0.000)
		DIVERSITY	POWER	FAN	STA					MAX FAI		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE E	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC	(FRAC)
SUPPLY	641.	1.00	0.188	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L14 E (T.ESE37) A	PT1	641.	74.	0.053	1.000	0.	0.00	0.00	13.84	0.00	-22.84 1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.W38)

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAZ PEOPLI		AIR CA	OOLING PACITY TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	1
PVVT	1.000	640.8	1	. 0.0	000	9.585	0.840	-9.221	0.210	0.219	0.000	1
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA PRESS		AL MECH		AN FA	MAX FAN N RATIC		
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	368.	1.00	0.108	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	1
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L14 W (T.W38) APT	1	368.	39.	0.028	1.000	0.	0.00	0.00	7.94	0.00	-13.11 1.

	_	_		-								
		FLOOR		OUTSI	DE C	OOLING		HEATING	COOLING	HEATING	HEAT PUMI	?
SYSTEM	ALTITUDE	AREA	MAX		AIR CA	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	Γ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	938.6	2.	0.0	000	14.461	0.837	-13.908	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	TIC TOTA	AL MECH	I		MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	552.	1.00	0.162	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONI
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L14 N (T.NW39) AF	T1	552.	56.	0.040	1.000	0.	0.00	0.00	11.92	0.00	-19.67 1

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NE40) WEATHER FILE- SEATTLE BOEING FI WA

	•	_		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAΣ		AIR CAI		SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUME	?
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KB'	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	681.8	1.	0.0	000	5.202	0.823	-5.007	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH	I		MAX FAN	N MIN FAN	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	FF EFF	F.	AN FA	N RATIC) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	194.	1.00	0.057	0.91	Ē	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L14 N (T.NE40) AF	т1	194.	41.	0.029	1.000	0.	0.00	0.00	4.20	0.00	-6.93 1.

REPORT- SV-A System Design	Parameters for L14 Sy	s1 (PVVT) (T.NW41)	EATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR AREA	MA:	OUTS:		OOLING PACITY S	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMI	
TYPE	FACTOR	(SQFT)	PEOPL	E RAT	TIO (KBT	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	711.4	1	. 0.0	000	6.339	0.827	-6.102	0.211	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	TIC TOTA	AL MECH	Į.		MAX FAN	I MIN FAI	4
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	FF EFF	' FA	AN FA	N RATIC) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	238.	1.00	0.070	0.91	1	1.2 0.5	50 0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY E	XHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR)	(KBTU/HR) MULT
Zn L14 N (T.NW41) AP	т1	238.	43.	0.031	1.000	0.	0.00	0.00	5.15	0.00	-8.50 1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAZ PEOPLI		AIR CAE	OOLING PACITY S TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	1
PVVT	1.000	1265.9	2	. 0.0	000 1	4.252	0.840	-13.705	0.210	0.218	0.000	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STAT PRESSU	JRE EF	F EFF	F	AN FAI		RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	547.	1.00	0.161	0.91	1	1.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L14 N (T.NE42) AP	т1	547.	76.	0.054	1.000	0.	0.00	0.00	11.82	0.00	-19.50 1.

Zn L14 E (T.ESE43) APT1

0.00 0.00

5.59

0.00 -9.22 1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.ESE43) WEATHER FILE- SEATTLE BOEING FI WA

259. 41. 0.029 1.000 0.

_____ FLOOR MAX OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) SYSTEM ALTITUDE AREA TYPE FACTOR (SQFT) EIR EIR SUPP-HEAT PEOPLE (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 679.6 0.000 6.748 0.839 -6.494 0.211 0.219 0.000 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF FAN FAN DIVERSITY MAX FAN MIN FAN FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 259. 1.00 0.076 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30 EXTRACTION HEATING ADDITION SUPPLY EXHAUST MINIMUM OUTSIDE COOLING FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY FAN ZONE FLOW FLOW RATE ZONE NAME (CFM) (CFM) (KW) (FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) MULT

	/			2	D1 (1111	, (-1						
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM	•
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	1302.8	2.	0.0	000 1	7.267	0.834	-15.576	0.197	0.218	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH	I		MAX FAN	I MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EI	FF EFF	' F.	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	657.	1.00	0.193	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR)	KBTU/HR) MULT
Zn L15 S (G.SW5) APT	1	657.	78.	0.056	1.000	0.	0.00	0.00	14.18	0.00	-23.40 1.

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.W6)

	/	Debign rara		2	(, (00)						
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM)
SYSTEM	ALTITUDE	AREA	MAX	P	AIR CAF	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBI	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	640.8	1.	0.0	000	8.785	0.835	-8.452	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	C TOTA	AL MECH	Į.		MAX FAN	N MIN FAI	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EI	FF EFF	F.	AN FA	N RATIC) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	334.	1.00	0.098	0.91	1	2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L15 W (G.W6) APT1	-	334.	39.	0.028	1.000	0.	0.00	0.00	7.22	0.00	-11.92 1.

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.NW7)

	•	_		-								
SYSTEM	ALTITUDE	FLOOR AREA	MAX	OUTSI		OOLING PACITY S	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUME SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	937.6	2.	0.0	100	13.241	0.835	-12.736	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA'	TIC TOTA	AL MECH	I		MAX FAN	N MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	F EFF	F	AN FA	N RATIO) RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	504.	1.00	0.148	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR) (KBTU/HR) MULT
Zn L15 N (G.NW7) API	1	504.	56.	0.040	1.000	0.	0.00	0.00	10.89	0.00	-17.97 1.

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.NE8) WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSID	E COOLI	1G		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	AII	R CAPACIT	ry si	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	?
TYPE	FACTOR	(SQFT)	PEOPLE	RATIO	O (KBTU/H	٤)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	543.9	5.	1.000	0 14.34	10	0.601	-13.791	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STATIC	TOTAI	L MECH			MAX FAN	I MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	F EFF	FA	AN FAI	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F) (IN-WATER)	(FRAC	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)
SUPPLY	300.	1.00	0.090	0.93	0.0	0.50	0.00	DRAW-THE	RU CONSTANT	г 1.00	0.30)
ZONE NAME			FLOW	HAUST FLOW CFM)	FAN	NIMUM FLOW FRAC)	OUTSIDE AIR FLOW (CFM)	CAPACITY	SENSIBLE	KTRACTION RATE (KBTU/HR) (HEATING CAPACITY KBTU/HR)	ADDITION RATE ZONE KBTU/HR) MULT

 $\text{Zn L15 N (G.NE8) AMN} \qquad \qquad 300. \qquad \qquad 0. \qquad 0.000 \qquad 1.000 \qquad 300. \qquad 0.00 \qquad 0.00 \qquad 6.48 \qquad 0.00 \qquad -10.69 \quad 1.$

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.NE9)

	11 5/500	Debign rara		210 07	DI (1111	, (0.11.2)	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	>
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAP	ACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1484.8	15.	0.3	91 2	6.896	0.686	-27.876	0.226	0.218	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOT	AL MECH	I		MAX FAN	MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	F.	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	767.	1.00	0.225	0.91	1	.2 0.	50 0.62	P DRAW-TH	RU CONSTAN	T 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L15 N (G.NE9) AMN	ı	767.	0.	0.000	1.000	300.	0.00	0.00	16.57	0.00	-27.34 1.

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		FLOOR		OUTS	IDE CO	OLING		HEATING	COOLING	HEATING	HEAT PUMI	>
SYSTEM	ALTITUDE	AREA	MAX	ζ Z	AIR CAE	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	rio (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	1375.0	14	0.3	382 2	7.648	0.685	-28.653	0.226	0.218	0.000)
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	AL MECH	I		MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EI	FF EFF	F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	CR) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC	
SUPPLY	786.	1.00	0.230	0.91	1	2 0.5	50 0.62	DRAW-TH	RU CONSTAN	IT 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONI
NAME		(CFM)	(KW)	(FRAC)		(KBTU/HR)				KBTU/HR) MULT
Zn L15 S (G.SSE12) F	'IT	786.	0.	0.000	1.000	300.	0.00	0.00	16.97	0.00	-28.00 1

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		FLOOR		OUTS	IDE C	OOLING		HEATING	COOLING	HEATING	HEAT PUM	P
SYSTEM	ALTITUDE	AREA	MAX	ζ 2	AIR CA	PACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Γ
TYPE	FACTOR	(SQFT)	PEOPLI	E RAT	rio (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	1361.3	3.	0.0	000	16.791	0.834	-15.148	0.197	0.218	0.00	0
		DIVEDGIEV	DOMED	FAAT	CITA	mia mom	NI MEGU	,		MAY EA	N MIN FA	NT.
		DIVERSITY	POWER	FAN	STA					MAX FAI		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	' F.	AN FA	N RATIO) RATI)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	638.	1.00	0.187	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.3	0
		_							_			
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L16 S (G.SW5) APT	1	638.	82.	0.058	1.000	0.	0.00	0.00	13.78	0.00	-22.73 1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.W6)

		5			,	, ,						
		FLOOR		OUTSI	DE COO	LING		HEATING	COOLING	HEATING	HEAT PUM	P
SYSTEM	ALTITUDE	AREA	MAX	A.	IR CAPA	CITY SI	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Γ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU	/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	640.8	1.	0.0	00 8	.086	0.834	-7.781	0.210	0.219	0.00	0
		DIVERSITY	POWER	FAN	STATIO	C TOTAL	L MECH			MAX FAI	N MIN FAI	N
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURI	E EF	F EFF	F	AN FA	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER) (FRAC) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	307.	1.00	0.090	0.91	1.:	2 0.50	0.62	DRAW-THI	RU CYCLIN	G 1.0	0 0.3	0
		s	UPPLY EX	HAUST	I	MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L16 W (G.W6) APT1		307.	39.	0.028	1.000	0.	0.00	0.00	6.64	0.00	-10.95 1.

ZONE

FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY

RATE ZONE

EXTRACTION HEATING ADDITION

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NW7) WEATHER FILE- SEATTLE BOEING FI WA

FAN

SUPPLY EXHAUST

FLOW

FLOW

_____ FLOOR MAX OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) SYSTEM ALTITUDE AREA TYPE FACTOR (SQFT) EIR EIR SUPP-HEAT PEOPLE (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 939.7 2. 0.000 12.453 0.834 -11.979 0.210 0.219 0.000 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF DIVERSITY MAX FAN MIN FAN FAN FAN FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 474. 1.00 0.139 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30

NAME (CFM) (CFM) (KW) (FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) MULT Zn L16 N (G.NW7) APT1 474. 56. 0.040 1.000 0. 0.00 0.00 10.23 0.00 -16.88 1.

MINIMUM OUTSIDE COOLING

Zn L16 N (G.NE8) APT1

1.000 0. 0.00 0.00 3.95

0.00 -6.51 1.

183.

41.

0.029

REPORT- SV	7-A System	Design Para	meters for	L16 Sy	s1 (PVVT) (G.NE8)		WEATH	ER FILE- SE	EATTLE BOE	ING FI WA
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM	P
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAP	ACITY :	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA	T
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	676.2	1.	0.0	00	4.900	0.822	-4.717	0.211	0.219	0.00	0
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH	I		MAX FAN	N MIN FA	N
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	r FA	AN FA	N RATIO) RATI	0
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC)) (FRAC)
SUPPLY	183.	1.00	0.054	0.91	1	.2 0.	50 0.62	2 DRAW-TH	RU CYCLIN	G 1.00	0.3	0
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE		CAPACITY	RATE ZONE
NAME		(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)				(KBTU/HR) MULT

REPORT- SV	/-A System	Design Para	meters for	тто гу	SI (PVVI) (G.NNE:	') 		WEAIH	ER FILE- SE	LAIILE BUEI	.NG FI WA
		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	A	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	:
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT)	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1195.4	2.	0.0	000 1	1.439	0.828	-11.003	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOT	AL MECH			MAX FAN	N MIN FAN	I
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	F EFF	F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	431.	1.00	0.126	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L16 N ((G.NNE9) AF	Т1	431.	72.	0.051	1.000	0.	0.00	0.00	9.31	0.00	-15.36 1.

							, 					
		FLOOR		OUTSI	DE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	P	AIR CAE	PACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	766.1	1.	0.0	000	6.896	0.842	-6.636	0.210	0.219	0.000	
		DIVERSITY	POWER	FAN	STAT	CIC TOTA	AL MECH	Į.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	FF EFF	F.	AN FA	N RATIO	RATIC	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	265.	1.00	0.078	0.91	1	.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L16 S (G.S12) APT	1:1	265.	46.	0.033	1.000	0.	0.00	0.00	5.73	0.00	-9.46 1.

REPORT- SV-A System Design Parameters for	L16 Sys1 (PVVT) (G.SE13)	WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTS	IDE C	OOLING		HEATING	COOLING	HEATING	HEAT PUMI	·
SYSTEM	ALTITUDE	AREA	MA				SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPL	E RAT	rio (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR	
PVVT	1.000	898.6	2	. 0.0	000	10.390	0.843	-9.993	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH			MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE E	FF EFF	F	AN FA	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	401.	1.00	0.118	0.91	:	1.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY E	XHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L16 S (G.SE13) AP	т1	401.	54.	0.039	1.000	0.	0.00	0.00	8.66	0.00	-14.28 1.

REPORT- SV-A System Design Parameters for	L16 Sys1 (PVVT) (G.ENE14)	WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MA: PEOPLI		AIR CA	OOLING PACITY TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMI SUPP-HEA' (KBTU/HR	г
PVVT	1.000	452.6	1	. 0.0	000	7.068	0.842	-6.802	0.210	0.219	0.00)
FAN	CAPACITY	DIVERSITY FACTOR	POWER	FAN DELTA-T	STA'	JRE E	FF EFF	F.	AN FA) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	272.	1.00	0.080	0.91	:	1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.3)
ZONE		S	UPPLY E	XHAUST FLOW	FAN	MINIMUM FLOW				XTRACTION RATE	HEATING CAPACITY	ADDITION RATE ZONE
NAME		((CFM)	(KW)	(FRAC)	(CFM)			(KBTU/HR) ((KBTU/HR) MULT
Zn L16 E (G.ENE14) A	PT1	272.	27.	0.019	1.000	0.	0.00	0.00	5.88	0.00	-9.70 1.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.SW20)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSID: AII RATIO	R CAPACI	ry sei	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	13613.1	26.	0.00	0 179.2	26	0.839	-185.908	0.226	0.218	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F	AN FA	N RATIO	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F) (IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L17 S (M.SW20) APT1	686.	82.	0.058	1.000	0.	0.00	0.00	14.82	0.00	-24.46	10.

SUPPLY 6863. 1.00 2.014 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.W21)

		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAP	ACITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	?
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	6408.2	12.	0.0	00 8	8.496	0.839	-85.144	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	L MECH			MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	F EFF	FA	AN FAI	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEMEN	T CONTRO	L (FRAC) (FRAC)
SUPPLY	3391.	1.00	0.995	0.91	1	.2 0.5	0 0.62	DRAW-THE	U CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	KBTU/HR) MULT
Zn L17 W ((M.W21) APT	1	339.	39.	0.028	1.000	0.	0.00	0.00	7.32	0.00	-12.09 10.

REFORT BY	, H Dybeem					, (m.m.z.	· /					
		FLOOR		OUTSI	IDE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	,
SYSTEM	ALTITUDE	AREA	MAX	ζ /	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	TIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	9397.0	18	0.0	000 13	7.044	0.836	-131.806	0.210	0.219	0.000	1
		DIVERSITY	POWER	FAN	STAT					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	F EFF	' F	AN FA	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	5225.	1.00	1.533	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	1
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L17 N (M.NW22) AP	т1	522.	56.	0.040	1.000	0.	0.00	0.00	11.29	0.00	-18.62 10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.NE23)

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		IR CAPACI	TY SEI	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVVT	1.000	6761.5	13.	0.0	00 63.3	33	0.841	-60.946	0.211	0.219	0.000
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	[MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	an fai	N RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	2435.	1.00	0.714	0.91	1.2	0.50	0.62	DRAW-THE	U CYCLING	g 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	1	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L17 N (M.NE23) APT1	243.	41.	0.029	1.000	0.	0.00	0.00	5.26	0.00	-8.68	10.

REPORT- SV-A System Design Parameters for	L17 Sys1 (PVVT) (M.NNE24)	WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAP	ACITY S	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	11953.6	22.	0.0	000 14:	2.010	0.840	-136.559	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	L MECH	I		MAX FAN	N MIN FAN	I
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE EF	F EFF	F	AN FA	N RATIC	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	5452.	1.00	1.600	0.91	1	.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L17 N (M.NNE24) A	PT1	545.	72.	0.051	1.000	0.	0.00	0.00	11.78	0.00	-19.43 10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.S27)

	•	_		2								
		FLOOR		OUTS	DE C	OOLING		HEATING	COOLING	HEATING	HEAT PUMI	>
SYSTEM	ALTITUDE	AREA	MAX	ζ I	AIR CAI	PACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	7661.5	14	0.0	000	75.587	0.843	-72.729	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	TIC TOT	AL MECH	I		MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE E	FF EFF	' F	AN FA	N RATIO	RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	2913.	1.00	0.855	0.91	Ē	1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	· E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L17 S (M.S27) APT	1:1	291.	46.	0.033	1.000	0.	0.00	0.00	6.29	0.00	-10.38 10.

		_		-								
		FLOOR		OUTSI	DE C	OOLING		HEATING	COOLING	HEATING	HEAT PUM	•
SYSTEM	ALTITUDE	AREA	MAX		AIR CA	PACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Γ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	8986.5	17.	0.0	000 1	14.035	0.844	-109.671	0.210	0.219	0.00)
		DIVERSITY	POWER	FAN	STA	TIC TOT	AL MECH	I		MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESS	URE E	FF EFF	F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	4402.	1.00	1.292	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.3)
		s	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L17 S (M.SE28) AF	T1	440.	54.	0.039	1.000	0.	0.00	0.00	9.51	0.00	-15.69 10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.ENE29) WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	DE COOL	ING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPAC	ITY SI	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	IO (KBTU/	HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR))
PVVT	1.000	4525.5	8.	0.0	00 79.	788	0.843	-76.769	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STATIC	TOTAI	L MECH			MAX FAN	MIN FAN	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFE			an fai			
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)						
SUPPLY	3075.	1.00	0.902	0.91	1.2	0.50	0.62	DRAW-THE	RU CYCLING	3 1.00	0.30)
		S		HAUST		INIMUM	OUTSIDE			XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT

Zn L17 E (M.ENE29) APT1 307. 27. 0.019 1.000 0. 0.00 0.00 6.64 0.00 -10.96 10.

REPORT- SV-A System Design Parameters for	L27 Sys1	PVVT) (T.SW35)		WEATHE	R FILE- SE	ATTLE BOEING FI	WA
FLOOR	OUTSIDE	COOLING	HEATING	COOLING	HEATING	HEAT PUMP	

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE		IR CAPA		ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	1361.3	3.	0.0	00 18	.748	0.839	-19.445	0.226	0.218	0.000	
		DIVERSITY	POWER	FAN	STATI					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUR:	E EF	F EFF	FA	AN FA	N RATIO) RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER) (FRAC) (FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	718.	1.00	0.211	0.91	1.	2 0.5	0 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
ZONE NAME			FLOW	HAUST FLOW CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)		SENSIBLE		CAPACITY	DDITION RATE ZONE BTU/HR) MULT

Zn L27 S (T.SW35) APT1 718. 82. 0.058 1.000 0. 0.00 15.52 0.00 -25.60 1.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.W36) WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		AIR CAI	OOLING PACITY S TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	640.8	1.	. 0.0	000	9.546	0.840	-9.184	0.210	0.219	0.000	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA:				AN FA	MAX FAN N RATIO		
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	366.	1.00	0.107	0.91	=	1.2 0.5	0.62	DRAW-THI	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L27 W (T.W36) APT	1	366.	39.	0.028	1.000	0.	0.00	0.00	7.91	0.00	-13.05 1.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MA: PEOPLI		AIR CA	OOLING PACITY S TU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMI SUPP-HEAT (KBTU/HR)	
PVVT	1.000	939.7	2	. 0.0	000	14.727	0.837	-14.163	0.210	0.219	0.000)
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA'				AN FA	MAX FAN N RATIO		
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	562.	1.00	0.165	0.91	:	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY E	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	KBTU/HR) MULT
Zn L27 N (T.NW37) AP	т1	562.	56.	0.040	1.000	0.	0.00	0.00	12.15	0.00	-20.04 1.

REPORT- SV-A System Design Parameters for L2	7 Sy:	rs1 (PVV	F) (T.NE38)
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SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		AIR CAPAC	CITY S	ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUM SUPP-HEA' (KBTU/HR	г	
PVVT	1.000	676.2	1.	0.0	000 5.	.270	0.824	-5.072	0.211	0.219	0.00)	
		DIVERSITY	POWER	FAN	STATIO	C TOTA	L MECH			MAX FAN	MIN FA	N .	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURI	E EF	F EFF	F	AN FA	N RATIO	RATIO)	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	197.	1.00	0.058	0.91	1.2	2 0.5	0 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.3)	
		S	UPPLY EX	KHAUST	1	MINIMUM	OUTSIDE	COOLING	E.	XTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME		(CFM)	CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR)	(KBTU/HR)	MULT
Zn L27 N (T.NE38) AP	т1	197.	41.	0.029	1.000	0.	0.00	0.00	4.26	0.00	-7.02	1.

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		FLOOR		OUTSI	DE CO	OLING		HEATING	COOLING	HEATING	HEAT PUME)
SYSTEM	ALTITUDE	AREA	MAX	Z A	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	1
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	CIO (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1195.4	2.	0.0	000 1	3.894	0.843	-13.360	0.210	0.218	0.000	ı
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH	I		MAX FAN	MIN FAN	ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE El	FF EFF	F	AN FA	N RATIO	RATIC)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRA	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	535.	1.00	0.157	0.91	1	.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30	1
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L27 N ((T.NNE39) A	PT1	535.	72.	0.051	1.000	0.	0.00	0.00	11.57	0.00	-19.08 1.

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		FLOOR		OUTS		OLING		HEATING	COOLING	HEATING		
SYSTEM	ALTITUDE	AREA	MAX	Δ	AIR CAP	ACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	ľ
TYPE	FACTOR	(SQFT)	PEOPLE	E RAT	rio (KBT	U/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	766.1	1.	. 0.0	000	8.169	0.843	-7.860	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STAT	IC TOTA	AL MECH			MAX FAI	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	RE E	FF EFF	F.	AN FA	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	R) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	315.	1.00	0.092	0.91	1	.2 0.5	0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
Zn L27 S (T.S42) APT	' 1	315.	46.	0.033	1.000	0.	0.00	0.00	6.81	0.00	-11.23 1

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		FLOOR		OUTS	IDE CO	OOLING		HEATING	COOLING	HEATING	HEAT PUM	•
SYSTEM	ALTITUDE	AREA	MAX		AIR CAI	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	ſ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	rio (KB	TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	898.6	2.	0.0	000	12.860	0.844	-12.366	0.210	0.219	0.000)
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH	I		MAX FAN	N MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE EI	FF EFF	' F.	AN FA	N RATIO) RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAG	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)
SUPPLY	497.	1.00	0.146	0.91	:	1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30)
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) ((KBTU/HR)	(KBTU/HR) MULT
Zn L27 S (T.SE43) AF	T1	497.	54.	0.039	1.000	0.	0.00	0.00	10.73	0.00	-17.71 1.

ZONE

NAME

Zn L27 E (T.ENE44) APT1

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.ENE44)

SUPPLY EXHAUST

FLOW

(CFM)

27.

FLOW

(CFM)

344.

FAN

0.019

MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE ZONE

(FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) (KBTU/HR) MULT

0.00 7.43

0.00 -12.26 1.

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	452.6	1.	0.0	000 8.9	17	0.843	-8.579	0.210	0.219	0.000
		DILIDDOTTI	DOMED	F13.37	GM3 MT G	moma r	MEGU	,		MAY 533	MIN DAN
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	l .		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	AN FAI	N RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	(FRAC)	(FRAC)
SUPPLY	344.	1.00	0.101	0.91	1.2	0.50	0.62	DRAW-THE	RU CYCLING	1.00	0.30

1.000 0. 0.00

SUPPLY

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.SW5)

WEATHER FILE- SEATTLE BOEING FI WA

-----FLOOR MAX OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) SYSTEM ALTITUDE AREA EIR EIR SUPP-HEAT ALTITUDE AREA FACTOR (SQFT) MAX PEOPLE (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) TYPE PVVT 1.000 1879.8 4. 0.000 26.184 0.835 -27.140 0.226 0.218 0.000 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF DIVERSITY MAX FAN MIN FAN FAN FAN FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL

EXTRACTION HEATING ADDITION SUPPLY EXHAUST MINIMUM OUTSIDE COOLING FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY FAN ZONE FLOW FLOW RATE ZONE NAME (CFM) (CFM) (KW) (FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) MULT Zn L28 S (G.SW5) APT1 997. 113. 0.081 1.000 0. 0.00 0.00 21.55 0.00 -35.55 1.

997. 1.00 0.293 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.NE6)	REPORT- SV-A	System Design	Parameters	for I	L28 Sys1	(PVVT)	(G.NE6)
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SYSTEM	ALTITUDE	FLOOR AREA	MAX	OUTSI		OOLING PACITY S	ENSIBLE	HEATING CAPACITY	COOLING	HEATING EIR	HEAT PUMP	
TYPE	FACTOR	(SQFT)	PEOPLE			TU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1544.3	3.	0.0	000 1	19.989	0.843	-20.731	0.226	0.218	0.000	
		DIVERSITY	POWER	FAN	STAT	TIC TOTA	L MECH	I		MAX FAN	MIN FAN	Ī
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EF	F EFF	F	AN FA	N RATIC	RATIC	1
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATE	ER) (FRAC	(FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	771.	1.00	0.226	0.91	1	1.2 0.5	0.62	DRAW-TH	RU CYCLIN	G 1.00	0.30	
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L28 N (G.NE6) APT	1	771.	93.	0.066	1.000	0.	0.00	0.00	16.66	0.00	-27.48 1.

REPORT- SV-A System Design Parameters	for	L28 Sys1	(PVVT)	(G.SSE9)
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		FLOOR		OUTS		OOLING		HEATING	COOLING	HEATING	HEAT PUM	
SYSTEM	ALTITUDE	AREA	MA:	X I	AIR CA	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPL	E RAT	rio (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1601.0	3	. 0.0	000	20.962	0.844	-21.735	0.226	0.218	0.000)
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH	I		MAX FAN	I MIN FAI	1
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSI	JRE EI	FF EFF	F	AN FA	N RATIO	RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAG	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC)	(FRAC	
SUPPLY	810.	1.00	0.238	0.91		1.2 0.	50 0.62	DRAW-TH	RU CYCLIN	IG 1.00	0.30)
		S	UPPLY E	XHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		((CFM)	(KW)	(FRAC)	(CFM)			(KBTU/HR) (KBTU/HR) MULT
Zn L28 S ((G.SSE9) AP	т1	810.	96.	0.069	1.000	0.	0.00	0.00	17.49	0.00	-28.85 1.

REPORT- SV-A System Design Parameters for	L28 Sys1 (PVVT) (G.N10)	WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		AIR CAI	OOLING PACITY :	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUME SUPP-HEAT (KBTU/HR)	г
PVVT	1.000	1631.5	3 .	0.0	000 2	20.190	0.833	-18.215	0.197	0.218	0.000)
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STAT	JRE E	FF EFF	F.	AN FA NT CONTRO) RATIO	
SUPPLY	767.	1.00	0.225	0.91		1.2 0.						
ZONE NAME			FLOW	KHAUST FLOW	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	CAPACITY	SENSIBLE	XTRACTION RATE (KBTU/HR) (HEATING CAPACITY KBTU/HR)	ADDITION RATE ZONE (KBTU/HR) MULT
Zn L28 N ((G.N10) APT	1	767.	98.	0.070	1.000	0.	0.00	0.00	16.56	0.00	-27.33 1.

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		FLOOR		OUTS	IDE C	OOLING		HEATING	COOLING	HEATING	HEAT PUM	?
SYSTEM	ALTITUDE	AREA	MAX	ζ Z	AIR CAI	PACITY S	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEA'	Γ
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	rio (KB	ru/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	1035.2	10.	0.0	000 2	24.067	0.832	-24.930	0.226	0.218	0.00)
		DIVERSITY	POWER	FAN	STA	FIC TOTA	AL MECH	I		MAX FAI	N MIN FAI	Ŋ
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSU	JRE EI	FF EFF	F	AN FA	N RATIO	O RATIO)
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WAT	ER) (FRAC	C) (FRAC)	PLACEME	NT CONTRO	L (FRAC) (FRAC)
SUPPLY	912.	1.00	0.267	0.91	:	1.2 0.	50 0.62	P DRAW-TH	RU CONSTAN	IT 1.00	0.3)
		S	UPPLY EX	KHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUL
Zn L29 S (G.SW5) AMN	ī	912.	0.	0.000	1.000	0.	0.00	0.00	19.69	0.00	-32.49 1

REPORT- SV-A System Design Parameters for L29 Sys1 (PVVT) (G.N9)

SYSTEM	ALTITUDE	FLOOR AREA	MAX		IR CAPA		ENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMP SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RAT	'IO (KBT	J/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	674.1	22.	0.0	00 34	1.163	0.809	-35.433	0.226	0.218	0.000	
		DIVERSITY	POWER	FAN	STAT					MAX FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSUE	RE EF	F EFF	FA	AN FA	N RATIO	RATIC	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER	R) (FRAC	(FRAC)	PLACEMEN	NT CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1248.	1.00	0.366	0.91	1.	. 2 0.5	0 0.62	DRAW-TH	RU CONSTAN	т 1.00	0.30	
		S	UPPLY EX	HAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE
NAME		(CFM) (CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR) (KBTU/HR) (KBTU/HR) MULT
Zn L29 N ((G.N9) RST		1248.	2000.	0.880	1.000	0.	0.00	0.00	26.95	0.00	-44.46 1.

REPORT- SV-A System Design Parameters for Elec Room Sys6 WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUT	SIDE C	COOLING			HEATING	COOLING	HEATING	HEAT PUN	MP	
SYSTEM	ALTITUDE	AREA		MAX	AIR CA	PACITY	SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEA	ΤA	
TYPE	FACTOR	(SQFT)	PEC	PLE R	ATIO (KE	BTU/HR)		(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HF	₹)	
PVVT	1.000	2664.2		0. 0	.000 1	17.570		0.733	-120.809	0.221	0.215	-261.28	34	
		DIVERSITY	POWE	R FA	vi cma	ATIC '	TOTAL	MECH			MAX FA	N MIN FA	N.N.T	
FAN	CAPACITY	FACTOR	DEMAN				EFF			AN FA	AN RATI			
TYPE	(CFM)	(FRAC)	(KW) (IN-WAT		FRAC)		PLACEMEI					
1111	(CIN)	(Tidio)	(10)	(1) (114 WI11	. шк / (.	i idic)	(Titric)	I Brebrib	WI CONTIN	5E (1101C	(11410	- /	
SUPPLY	4178.	1.00	3.27	3 2.4	2	0.0	0.00	0.00	DRAW-THI	RU CYCLI	NG 1.0	0 0.3	30	
		2	SUPPLY	EXHAUST		MINI	MUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	F.	LOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME			(CFM)	(CFM)	(KW)	(FR	AC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
	G.C5) ELEC		167.	0.	0.000		000	0.		0.00	4.51	0.00	-0.00	
	G.C7) ELEC		165.	0.	0.000		000	0.		0.00	4.44	0.00	-10.67	
	G.N4) ELEC		165.	0.	0.000		000	0.		0.00	4.46	0.00	-10.71	
	G.N4) ELEC		162.	0.	0.000		000	0.		0.00	4.38	0.00	-10.50	
Zn L8 N (1	4.N19) ELEC	:	165.	0.	0.000	1.0	000	0.	0.00	0.00	4.46	0.00	-10.71	6.
F 114 N	(m. 112.4.) ET E	10	170	0	0 000	1	000	0	0.00	0.00	4 65	0.00	11 16	1
	(T.N34) ELE		172.	0.	0.000		000	0.		0.00	4.65	0.00	-11.16	
	(G.N4) ELEC		171.	0.	0.000		000	0.		0.00	4.61	0.00	-11.07	
	(G.N4) ELEC (M.N19) ELE		165. 168.	0. 0.	0.000		000	0. 0.		0.00	4.45 4.52	0.00	-10.68 -10.86	
	(M.N19) ELE (T.N34) ELE		173.	0.	0.000		000	0.	0.00	0.00	4.52	0.00	-10.86	
AH LA/ N	(T.M24) EPE		1/3.	υ.	0.000	1.	000	0.	0.00	0.00	4.0/	0.00	-11.21	Ι.
7n 1.28 N	(G.N4) ELEC	•	172.	0.	0.000	1	000	0.	0.00	0.00	4.63	0.00	-11.12	1.
TII TIZO IV	(G.MA) EPEC	•	1/4.	υ.	0.000	Τ.	000	0.	0.00	0.00	4.03	0.00	-11.12	Δ.

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MZ PEOPI		AIR C	COOLING APACITY S	ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	SUPP-HE	AT	
PTAC	1.000	128764.8	(0.	000	0.000	0.000	0.000	0.261	0.259	-8.60)6	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STA PRES	ATIC TOTA			an fa	MAX FA			
TYPE	(CFM)	(FRAC)	(KW)	(F)				PLACEMEN					
SUPPLY	1699.	0.00	0.001	2.51		0.0 0.0	0.00	BLOW-THF	RU CYCLIN	G 0.0	0.0	00	
		:	SUPPLY 1	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW		SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L5 C (G	G.C14) STO		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L16 C ((G.C15) STO		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L17 C ((M.C30) STO		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	10.
	(T.C45) STO		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L29 S ((G.SE7) RR		46.	0.	0.037	1.000	0.	1.85	0.66	1.73	-1.87	-3.08	1.
Zn L1 N (G	G.NW1) STR		31.	0.	0.025	1.000	0.	1.23	0.66	1.15	-1.24	-2.06	1.
Zn L1 C (G	G.C6) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L1 C (G	G.C17) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P1 W (E	B.WNW3) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P1 C (E	3.C5) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P3 W (F	BB.WNW2) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P3 C (E			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn P2 W (U	JB.WNW11) ST	'R	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P2 C (U	JB.C12) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P4 W (E	B.WNW2) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L2 C (G	C1) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L2 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L3 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L3 C (G	G.C4) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L4 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L4 C (G	CA) CTD		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L5 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L5 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L6 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L6 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L7 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L7 C (G			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L8 C (M			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
Zn L8 C (M			10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	
zn L14 C ((T.C31) STR		10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.

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Zn L14 C (T.C45) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L15 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L15 C (G.C11) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L16 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L16 C (G.C11) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L17 C (M.C16) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	10.
Zn L17 C (M.C26) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	10.
Zn L27 C (T.C31) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L27 C (T.C41) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L28 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L28 C (G.C8) STR	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L29 W (G.WNW1) STR	48.	0.	0.039	1.000	0.	1.93	0.66	1.82	-1.95	-3.25	1.
Zn L29 E (G.E6) STR	115.	0.	0.093	1.000	0.	4.60	0.66	4.34	-4.64	-7.75	1.
Zn P1 W (B.W2) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn Pl N (B.N4) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P1 S (B.SE7) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P3 S (BB.SW1) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P2 S (UB.SW10) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P4 S (B.SW1) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L28 C (G.C11) MECH	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L29 N (G.NNW8) MECH	94.	0.	0.076	1.000	0.	3.77	0.66	3.55	-3.80	-6.34	1.
Zn P1 C (B.C10) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L4 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L1 C (G.C9) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P3 C (BB.C6) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn P2 C (UB.C15) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1
Zn P4 S (B.SSE5) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1. 1.
Zn L2 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L3 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L5 C (G.C3) ELV Zn L5 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L6 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L7 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L8 C (M.C17) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	6.
Zn L14 C (T.C32) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L15 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L16 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L17 C (M.C17) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	10.
Zn L27 C (T.C32) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L28 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.66	0.36	-0.40	-0.68	1.
Zn L29 S (G.S3) ELV	73.	0.	0.059	1.000	0.	2.94	0.66	2.75	-2.97	-4.92	1.
L30 Zn (G.1) MECH	133.	0.	0.108	1.000	0.	5.34	0.66	5.03	-5.39	-8.98	1.
Zn L1 N (G.NW15) VEST	10.	0.	0.008	1.000	0.	0.41	0.65	0.36	-0.42	-0.68	1.
Zn L1 C (G.C7) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S12) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Pa	Free	ze Protect			WEATHER FILE- SEATTLE BOEING FI WA						
Zn P1 C (B.C8) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 C (G.C6) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 C (G.C6) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L4 C (G.C5) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L5 C (G.C4) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L6 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L7 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L8 C (M.C18) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	6.
Zn L14 C (T.C33) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L15 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L16 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L17 C (M.C18) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	10.
Zn L27 C (T.C33) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L28 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L29 C (G.C4) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S13) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zw D1 C (D CM1) BLEC	0	0	0 000	0.000	0	0.00	0.00	0.00	0.00	0.00	1
Zn P1 S (B.SW1) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 S (B.S6) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.SW3) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S11) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S19) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 W (B.WSW11) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 N (B.NNE12) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 S (B.SE13) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 W (BB.W7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 N (BB.NNE8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 S (BB.SSE9) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 W (UB.W16) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 N (UB.NNE17) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 S (UB.SSE18) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P4 N (B.N6) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 E (G.E5) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 S (G.SSW7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 N (G.NNW8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 E (G.E5) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 S (G.S7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 N (G.NW8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 C (BB.C4) STO	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 C (UB.C13) STO	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
	0.	0.	0.000		0.	0.00			0.00	0.00	1.
Zn P4 N (B.NE3) STO	υ.	υ.	0.000	0.000	υ.	0.00	0.00	0.00	0.00	0.00	Τ.

REPORT-	SV-A	System	Design	Parameters	for	SYS11	RTL	DOAS

REPORT- SV	-A System	meters for	SYS11	RTL DOAS			WEATHER FILE- SEATTLE BOEING FI WA					
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSI: A RAT	IR CAPAC	ITY S	ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.000	1.0	0.	1.0	00 122.	937	0.601	-126.697	0.223	0.216	0.000	
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STATIC PRESSURE				AN FAI	MAX FAN N RATIO		
TYPE	(CFM)	(FRAC)	(KW)		(IN-WATER)							
SUPPLY	2572.	1.00	2.085	2.51	0.0	0.0	0.00	DRAW-TH	RU CONSTAN	T 1.00	0.30	
ZONE NAME			FLOW	AUST FLOW FM)	FAN (KW)	IINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	CAPACITY	SENSIBLE		CAPACITY	ADDITION RATE ZONE KBTU/HR) MULT
RTL DOAS D	UMMY ZN		2572.	0.	0.000	1.000	2572.	0.00	0.00	27.78	0.00	-111.10 1.

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SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLI		AIR CAPA		ENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)		г	
PVVT	1.000	1.0	0 .	. 1.0	000 68	.463	0.601	-70.706	0.224	0.217	0.00	0	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T	STATION PRESSURI	E EF	F EFF				O RATIO)	
SUPPLY	1432.	1.00	1.161	2.51	0.								
ZONE NAME			FLOW	KHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	CAPACITY	SENSIBLE	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE Z (KBTU/HR) M	
OFF DOAS D	DUMMY ZN		1432.	0.	0.000	1.000	1432.	0.00	0.00	15.47	0.00	-61.87	1.