REPORT- SV-A System Design Parameters for RTU-1 (Corridor DOAS) SYS6

WEATHER FILE- SEATTLE BOEING FI WA _____ FLOOR OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP MAX AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) SYSTEM ALTITUDE AREA EIR EIR SUPP-HEAT MAX PEOPLE FACTOR (SQFT) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) TYPE 0. 1.000 20477.3 PVVT 1.000 262.905 0.601 -254.290 0.211 0.218 0.000

POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF MAX FAN MIN FAN DIVERSITY FAN FAN FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 5500. 1.00 4.206 2.36 0.0 0.00 0.00 DRAW-THRU CONSTANT 1.00 0.30

| | SUPPLY | EXHAUST | | MINIMUM | OUTSIDE | COOLING | I | 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 W (G.W12) COR | 233. | 0. | 0.000 | 1.000 | 233. | 0.00 | 0.00 | 5.79 | 0.00 | -10.07 | 1. | |
| Zn L6 C (G.C14) COR | 212. | 0. | 0.000 | 1.000 | 212. | 0.00 | 0.00 | 5.27 | 0.00 | -9.16 | 1. | |
| Zn L7 C (G.C14) COR | 212. | 0. | 0.000 | 1.000 | 212. | 0.00 | 0.00 | 5.26 | 0.00 | -9.15 | 1. | |
| Zn L15 C (G.C10) COR | 419. | 0. | 0.000 | 1.000 | 419. | 0.00 | 0.00 | 10.40 | 0.00 | -18.09 | 1. | |
| Zn L17 C (M.C25) COR | 165. | 0. | 0.000 | 1.000 | 165. | 0.00 | 0.00 | 4.09 | 0.00 | -7.11 | 10. | |
| Zn L28 C (G.C7) COR | 179. | 0. | 0.000 | 1.000 | 179. | 0.00 | 0.00 | 4.46 | 0.00 | -7.75 | 1. | |
| Zn L29 E (G.ENE2) COR | 491. | 0. | 0.000 | 1.000 | 491. | 0.00 | 0.00 | 12.19 | 0.00 | -26.49 | 1. | |
| Zn L5 C (G.C13) COR | 277. | 0. | 0.000 | 1.000 | 277. | 0.00 | 0.00 | 6.88 | 0.00 | -11.96 | | |
| Zn L8 C (M.C29) COR | 212. | 0. | 0.000 | 1.000 | 212. | 0.00 | 0.00 | 5.26 | 0.00 | -9.15 | 6. | |
| Zn L14 C (T.C44) COR | 227. | 0. | 0.000 | 1.000 | 227. | 0.00 | 0.00 | 5.64 | 0.00 | -9.82 | 1. | |
| 7m 116 G /G G10\ G0D | 164. | 0. | 0.000 | 1.000 | 164. | 0.00 | 0.00 | 4.09 | 0 00 | -7.11 | 1. | |
| Zn L16 C (G.C10) COR | | | 0.000 | | | 0.00 | | | 0.00 | | | |
| Zn L27 C (T.C40) COR | 169. | 0. | 0.000 | 1.000 | 169. | 0.00 | 0.00 | 4.19 | 0.00 | -7.28 | 1. | |

REPORT- SV-A System Design Parameters for SF-L4-1 (COR DOAS) WEATHER FILE- SEATTLE BOEING FI WA _____ OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP
AIR CAPACITY SENSIBLE CAPACITY EIR EIR SUPP-HEAT
RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (KBTU/HR) FLOOR HEATING COOLING HEATING HEAT PUMP MAX SYSTEM ALTITUDE AREA
TYPE FACTOR (SQFT) MAX PEOPLE 0. PVVT 1.000 2956.7 1.000 73.356 0.634 -69.301 0.269 0.285 -146.142 MAX FAN MIN FAN FAN FAN RATIO RATIO POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF DIVERSITY FAN CAPACITY FACTOR (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC) TYPE (CFM) (FRAC) (KW) SUPPLY 1650. 1.00 1.338 2.51 0.0 0.00 0.00 DRAW-THRU CONSTANT 1.00 0.30

| ZONE | SUPPLY FLOW | EXHAUST FLOW | FAN | MINIMUM FLOW | OUTSIDE AIR FLOW | COOLING CAPACITY | SENSIBLE | EXTRACTION RATE | HEATING CAPACITY | ADDITION RATE | ZONE |
|----------------------|----------------|-----------------|-------|-----------------|---------------------|---------------------|----------|--------------------|---------------------|------------------|------|
| NAME | (CFM) | (CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) | MULT |
| SF-L4 DUMMY ZN | 37. | 0. | 0.000 | 1.000 | 37. | 0.00 | 0.00 | 0.40 | 0.00 | -1.59 | 1. |
| Zn Pl C (B.C9) COR | 149. | 0. | 0.000 | 1.000 | 149. | 0.00 | 0.00 | 3.71 | 0.00 | -6.45 | 1. |
| Zn P2 C (UB.C14) COR | 134. | 0. | 0.000 | 1.000 | 134. | 0.00 | 0.00 | 3.34 | 0.00 | -5.81 | 1. |
| Zn L1 C (G.C8) COR | 235. | 0. | 0.000 | 1.000 | 235. | 0.00 | 0.00 | 5.84 | 0.00 | -10.15 | 1. |
| Zn L1 C (G.C10) COR | 96. | 0. | 0.000 | 1.000 | 96. | 0.00 | 0.00 | 2.40 | 0.00 | -4.17 | 1. |
| Zn L1 S (G.S16) COR | 149. | 0. | 0.000 | 1.000 | 149. | 0.00 | 0.00 | 3.71 | 0.00 | -6.45 | 1. |
| Zn P3 C (BB.C5) COR | 134. | 0. | 0.000 | 1.000 | 134. | 0.00 | 0.00 | 3.33 | 0.00 | -5.80 | 1. |
| Zn P4 C (B.C4) COR | 115. | 0. | 0.000 | 1.000 | 115. | 0.00 | 0.00 | 2.86 | 0.00 | -4.98 | 1. |
| Zn L2 C (G.C2) COR | 185. | 0. | 0.000 | 1.000 | 185. | 0.00 | 0.00 | 4.59 | 0.00 | -7.98 | 1. |
| Zn L3 C (G.C2) COR | 191. | 0. | 0.000 | 1.000 | 191. | 0.00 | 0.00 | 4.74 | 0.00 | -8.25 | 1. |
| Zn L4 C (G.C2) COR | 223. | 0. | 0.000 | 1.000 | 223. | 0.00 | 0.00 | 5.55 | 0.00 | -9.64 | 1. |

REPORT- SV-A System Design Parameters for L1 Retail Split System N

| | | FLOOR | | OUTS | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | |
|------------|------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | ζ , | AIR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | ? |
| TYPE | FACTOR | (SQFT) | PEOPLI | E RAT | rio (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | |
| PVVT | 1.000 | 2831.6 | 47 | . 0.0 | 000 | 38.071 | 0.775 | -38.417 | 0.261 | 0.259 | -9.81 | 5 |
| | | DIVERSITY | POWER | FAN | STA | ric Tota | AL MECH | | | MAX FAI | 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 | 1474. | 1.00 | 0.433 | 0.91 | : | 1.2 0.9 | 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 L1 N (G | .NNW2) RTL | ı | 1474. | 0. | 0.000 | 0.000 | 0. | 0.00 | 0.00 | 31.85 | 0.00 | -10.15 1. |

| | • | - | | - | | | | | | | | | |
|------------|-----------|-----------|---------|---------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| | | FLOOR | | OUTS | IDE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUN | 1P | |
| SYSTEM | ALTITUDE | AREA | MA | X A | AIR CAI | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA | T | |
| TYPE | FACTOR | (SQFT) | PEOPL | E RAT | rio (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HF | 2) | |
| PVVT | 1.000 | 2636.9 | 85 | . 0.0 | 000 7 | 72.000 | 0.758 | -74.488 | 0.225 | 0.217 | 0.00 | 0 | |
| | | DIVERSITY | POWER | FAN | STAT | ric ToT | AL MECH | | | MAX FA | N MIN F | ΔN | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | FA | AN FA | AN RATI | O RATI | :0 | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRA | C) (FRAC) | PLACEMEN | NT CONTRO | L (FRAC |) (FRAC | !) | |
| SUPPLY | 2637. | 1.00 | 0.774 | 0.91 | 1 | 1.2 0. | 50 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 | C4) LOB | | 250. | 0. | 0.000 | 1.000 | 0. | 0.00 | 0.00 | 4.62 | 0.00 | -8.92 | 1. |
| Zn L1 N (G | .N14) LOB | | 2302. | 0. | 0.000 | 1.000 | 0. | 0.00 | 0.00 | 42.53 | 0.00 | -82.05 | 1. |
| Zn L1 C (G | .C5) RR | | 84. | 0. | 0.000 | 1.000 | 0. | 0.00 | 0.00 | 2.91 | 0.00 | -3.65 | 1. |

1.000 5434.4

SYSTEM ALTITUDE AREA
TYPE FACTOR (SQFT)

FAN CAPACITY FACTOR

TYPE (CFM)

PVVT

REPORT- SV-A System Design Parameters for L1 Retail Split System S

MAX

MAX PEOPLE

(KW)

91.

FLOOR

DIVERSITY

(FRAC)

WEATHER FILE- SEATTLE BOEING FI WA _____ HEATING COOLING HEATING HEAT PUMP AIR CAPACITY SENSIBLE CAPACITY
RATIO (KBTU/HR) (SHR) (KBTU/HR) EIR EIR SUPP-HEAT (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) 0.782 -80.480 0.268 0.281 -32.024 MAX FAN MIN FAN FAN FAN RATIO RATIO POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 3328. 1.00 0.998 0.93 0.0 0.00 0.00 DRAW-THRU SPEED 1.00 0.30

| ZONE NAME | SUPPLY FLOW (CFM) | EXHAUST FLOW (CFM) | FAN | MINIMUM FLOW (FRAC) | OUTSIDE AIR FLOW (CFM) | COOLING CAPACITY (KBTU/HR) | SENSIBLE (FRAC) | EXTRACTION RATE (KBTU/HR) | HEATING CAPACITY (KBTU/HR) | ADDITION RATE (KBTU/HR) | |
|--|--------------------------|---------------------------|-------------------------|---------------------------|-------------------------------|----------------------------------|----------------------|---------------------------------|----------------------------------|-------------------------------|----------|
| Zn L1 E (G.ENE18) RTL Zn L2 N (G.NE9) RTL Zn L2 S (G.SE10) RTL | 2958. 144. 225. | 0. 0. | 0.000 0.000 0.000 | 0.000 1.000 | 0. 0. 0. | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 63.90 3.12 4.87 | 0.00 0.00 0.00 | -19.95 -5.15 -8.03 | 1. 1. |

OUTSIDE COOLING

0.000 84.599

REPORT- SV-A System Design Parameters for L3 Ops Office Elec Heat

| | | FLOOR | | OUTSI | DE COC | LING | | HEATING | COOLING | HEATING | HEAT PUM | IP | |
|-----------|------------|-----------|----------|---------|-----------|---------|----------|-----------|-----------|-----------|-----------|-----------|-------|
| SYSTEM | ALTITUDE | AREA | MAX | . A | IR CAPA | CITY S | ENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA | T | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KBTU | J/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | 1) | |
| TAC | 1.000 | 812.1 | 3. | 0.0 | 00 0 | 0.000 | 0.000 | 0.000 | 0.261 | 0.259 | -1.92 | 9 | |
| | | DIVERSITY | POWER | FAN | STATI | C TOTA | L MECH | Į. | | MAX FA | N MIN FA | N | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSUR | E EF | F EFF | F | AN FA | AN RATI | O RATI | 0 | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER | (FRAC |) (FRAC) | PLACEME | NT CONTRO |)L (FRAC |) (FRAC | !) | |
| SUPPLY | 69. | 0.00 | 0.001 | 2.51 | 0. | 0.0 | 0.00 | BLOW-TH | RU CYCLIN | IG 0.0 | 0.0 | 0 | |
| | | S | UPPLY EX | HAUST | | MINIMUM | OUTSIDE | COOLING | E | XTRACTION | 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 |
| n L3 S (G | .S9) OFF | | 59. | 0. | 0.048 | 1.000 | 0. | 2.82 | 0.63 | 2.56 | -2.84 | -2.09 | 9 1 |
| n L3 C (G | 3.C10) STO | | 10. | 0. | 0.008 | 1.000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 3 1 |

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.C6)

| | | FLOOR | | OUTSI | DE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUME | |
|------------|----------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | | AIR CAI | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (KB | ru/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 | STA | FIC TOT. | AL MECH | I | | MAX FAN | MIN FAN | ī |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | F | AN FA | N RATIC | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 223. | 1.00 | 0.067 | 0.93 | (| 0.0 0. | 0.00 | 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 L4 C (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)

| REFORT DV | , H Dybecm | | | | | (0.00) | | | | | | |
|------------|------------|-----------|----------|---------|-----------|----------|----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTSI | DE COO | DLING | | HEATING | COOLING | HEATING | HEAT PUME | |
| SYSTEM | ALTITUDE | AREA | MAX | P | IR CAPA | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | : |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KBTU | J/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 1197.3 | 8. | 0.0 | 100 38 | 3.225 | 0.843 | -39.568 | 0.225 | 0.218 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STATI | IC TOTA | AL MECH | Ī | | MAX FAN | MIN FAN | I |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSUF | RE EF | F EFF | F. | AN FA | N RATIO | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER | R) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 1474. | 1.00 | 0.432 | 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 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-A System Design Parameters for L4 Sys1 (PVVT) (G.S9)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLE | | AIR CAI | OOLING PACITY S | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUM SUPP-HEA (KBTU/HR | г |
|----------------|--------------------|--------------------------|-----------------|----------------|----------------|--------------------|----------------|----------------------------------|-----------------------------|-----------------------------|----------------------------------|----------------|
| PVVT | 1.000 | 2458.5 | 17. | 0.0 | 000 3 | 39.402 | 0.816 | -40.772 | 0.225 | 0.218 | 0.00 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STAT PRESSU | JRE EI | FF EFF | F. | an fa | MAX FAN N RATIC | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRA | C) (FRAC) | PLACEME: | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 1456. | 1.00 | 0.427 | 0.91 | 1 | 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 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 | 0.00 | 31.45 | 0.00 | -51.89 1. |

NAME

Zn L4 E (G.E10) OFF

0.00 -35.23 1.

(FRAC) (CFM) (KBTU/HR) (FRAC) (KBTU/HR) (KBTU/HR) MULT 0.00 0.00 21.35

| REPORT- SV-A | System D | esian | Parameters | for | T.4 | Svs1 | (TVV/II) | (G E10) |
|--------------|----------|-------|------------|-----|-----|------|-----------|---------|

(CFM)

(CFM)

(KW)

988. 0. 0.000 1.000 0.

WEATHER FILE- SEATTLE BOEING FI WA ______ FLOOR OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP
AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR EIR SUPP-HEAT
(SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (KBTU/HR) SYSTEM ALTITUDE AREA
TYPE FACTOR (SQFT) PVVT 1.000 1197.7 0.000 26.377 0.825 -27.339 0.226 0.218 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF FAN FAN MAX FAN MIN FAN DIVERSITY FAN CAPACITY FACTOR RATIO (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL TYPE (CFM) (KW) SUPPLY 988. 1.00 0.290 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE SUPPLY EXHAUST MINIMUM OUTSIDE COOLING FAN FLOW FLOW RATE ZONE REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.N11)

| REPORT- SV | -A System | Design Para | meters for | L4 Sys | 1 (PVVT) (| G.N11) | | | WEATH | ER FILE- SE | ATTLE BOEI | NG FI WA |
|------------|-----------|-------------|------------|---------|------------|--------|----------|-----------|-----------|-------------|-------------|---------------|
| | | FLOOR | | OUTSI | DE COOL | ING | | HEATING | COOLING | HEATING | HEAT PUMP | |
| SYSTEM | ALTITUDE | AREA | MAX | A | IR CAPAC | ITY 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 | 2234.4 | 16. | 0.0 | 00 32. | 690 | 0.813 | -33.867 | 0.226 | 0.218 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STATIC | | | | | MAX FAN | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSURE | EF: | F EFF | FA | AN FAI | N RATIO | RATIO | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER) | (FRAC |) (FRAC) | PLACEMEN | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 1201. | 1.00 | 0.352 | 0.91 | 1.2 | 0.5 | 0 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 | |
| 5075 | | Si | | HAUST | | INIMUM | OUTSIDE | | | XTRACTION | | ADDITION |
| ZONE | | | FLOW | FLOW | FAN | FLOW | AIR FLOW | | | | CAPACITY | RATE ZONE |
| NAME | | ((| CFM) (C | CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) (| KBTU/HR) (1 | KBTU/HR) MULT |

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

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.C12)

| | | Debign rara | | 2- | , (1 , , , | (0.012) | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
|------------|------------|-------------|----------|---------|------------|---------|-----------|-----------|---|-------------|-----------|---------------|
| | | FLOOR | | OUTSI | DE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
| SYSTEM | ALTITUDE | AREA | MAX | I | AIR CAF | ACITY | 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 | 5388.9 | 38. | 0.0 | 000 5 | 5.517 | 0.801 | -57.400 | 0.225 | 0.217 | 0.000 | ı |
| | | DIVERSITY | POWER | FAN | STAI | '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 RATIO | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (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 | 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 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 Parameters for L4 Sys1 (PVVT) (G.C13)

| | | FLOOR | | OUTS | IDE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | |
|------------|------------|-----------|----------|---------|----------|-----------|-----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | ζ 2 | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RA | rio (KB7 | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 3915.1 | 27 | 0.0 | 000 4 | 11.482 | 0.802 | -42.944 | 0.225 | 0.218 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | ric Tota | AL MECH | Ī | | MAX FAN | N MIN FAI | I |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE EI | FF EFF | FA FA | AN FAI | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRAC | C) (FRAC) | PLACEMEN | NT CONTRO | L (FRAC) | (FRAC | |
| SUPPLY | 1497. | 1.00 | 0.439 | 0.91 | 1 | 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 | 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.C13) OFF | | 1497. | 0. | 0.000 | 1.000 | 0. | 0.00 | 0.00 | 32.33 | 0.00 | -53.35 1. |

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.W6)

| | - | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|------------|---------|----------|-----------|------------|-----------|-----------|-----------|----------------|
| ON COMPAN | 3. m.m.m. | FLOOR | | OUTS | | DOLING | TENATE E | HEATING | COOLING | HEATING | HEAT PUM | |
| SYSTEM | ALTITUDE | AREA | MAX | . <i>F</i> | AIR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA | T. |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | TIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 1411.5 | 3. | 0.0 | 000 | 18.430 | 0.834 | -17.737 | 0.211 | 0.219 | 0.00 | 0 |
| | | DIVERSITY | POWER | FAN | STA | ric Tota | AL MECH | I | | MAX FAI | N MIN FA | N |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | JRE E | FF EFF | F. | AN FA | N RATIO |) RATI | 0 |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC |) (FRAC |) |
| SUPPLY | 700. | 1.00 | 0.205 | 0.91 | : | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | IG 1.00 | 0.3 | 0 |
| | | 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.W6) APT1 | | 700. | 85. | 0.061 | 1.000 | 0. | 0.00 | 0.00 | 15.13 | 0.00 | -24.96 1. |

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

| | | FLOOR | | OUTSI | DE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUME | |
|------------|------------|-----------|----------|---------|----------|-----------|-----------|-----------|-----------|-------------|-------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | ζ Z | AIR CAE | 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 | 4144.8 | 8. | 0.0 | 000 2 | 22.549 | 0.838 | -21.697 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | TIC TOTA | AL MECH | | | MAX FAN | N MIN FAN | ī |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | F | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRAC | C) (FRAC) | PLACEMEN | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 862. | 1.00 | 0.253 | 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 L5 S (G | G.S7) APT3 | | 862. | 249. | 0.178 | 1.000 | 0. | 0.00 | 0.00 | 18.63 | 0.00 | -30.74 1. |

SYSTEM ALTITUDE AREA
TYPE FACTOR (SQFT)

| REPORT- SV-A | System Design | Parameters | for | T.5 | Svs1 | (TVAZQ) | (G ESE8) |
|--------------|---------------|------------|-----|-----|------|---------|----------|

WEATHER FILE- SEATTLE BOEING FI WA REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.ESE8) WEATHER FILE- SEATTLE BOEING FI WA FLOOR OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR EIR SUPP-HEAT (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 1518.1 3. 0.000 16.792 0.843 -15.149 0.197 0.218 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 | 648. | 1.00 | 0.190 | 0.91 | 1.2 | 0.50 | 0.62 | DRAW-THRU | CYCLING | 1.00 | 0.30 |

| | SUPPLY | EXHAUST | | MINIMUM | OUTSIDE | COOLING | I | 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. |

NAME

Zn L5 E (G.ENE9) APT1

0.00 -12.74 1.

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

0.00 0.00 7.72

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

(CFM)

(CFM)

(KW)

357. 87. 0.062 1.000 0.

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 1445.8 0.000 9.329 0.839 -8.975 0.210 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 357. 1.00 0.105 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

| REPORT- SV-A | System | Design | Parameters | for | 1.5 | Svs1 | (PV/V/T) | (G W10) |
|--------------|--------|--------|------------|-----|-----|------|-----------|---------|

| REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.W10) WEATHER FILE- SEATTLE BOEING 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 | 1353.9 | 3. | 0.0 | 00 18 | .619 | 0.835 | -17.918 | 0.211 | 0.219 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STATI | C TOTA | L MECH | | | 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 | 709. | 1.00 | 0.208 | 0.91 | 1. | 2 0.5 | 0 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.W10) APT1 709. 81. 0.058 1.000 0. 0.00 15.30 0.00 -25.25 1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.N11)

| | / | | | | (| (| | | | | | |
|------------|-------------|-----------|----------|---------|----------|-----------|-----------|-----------|-----------|-------------|------------|---------------|
| | | 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)

| | = | _ | | | | , , | | | | | | |
|------------|-------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI |) |
| SYSTEM | ALTITUDE | AREA | MAX | | AIR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (KB | ru/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | 1 |
| PVVT | 1.000 | 956.7 | 2. | 0.0 | 000 | 13.378 | 0.835 | -12.865 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | ric tota | AL MECH | Į. | | MAX FAI | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | JRE E | F 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 | 510. | 1.00 | 0.150 | 0.91 | : | 1.2 0.5 | 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 L6 W (G | G.WSW5) API | 1 | 510. | 58. | 0.041 | 1.000 | 0. | 0.00 | 0.00 | 11.01 | 0.00 | -18.17 1 |

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.S6)

| | | FLOOR | | OUTSI | DE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
|------------|------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | X I | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 1 |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | rio (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 2069.4 | 4 . | 0.0 | 000 | L5.784 | 0.841 | -15.190 | 0.211 | 0.219 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STA | TIC TOTA | AL MECH | | | MAX FAN | MIN FAN | ſ |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | JRE EI | FF EFF | F | AN FAI | N RATIO | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | C) (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 | 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 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 Design Parameters for L6 Sys1 (PVVT) (G.ESE7)

| CVCTEM | AT DIDITION | FLOOR | MA | OUTS | | OOLING | TENICIDI E | HEATING | COOLING | HEATING | HEAT PUM | |
|------------|-------------|-----------|---------|---------|---------|----------|------------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | | | | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPL | E RAT | rio (KB | ΓU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 1233.6 | 2 | . 0.0 | 000 | 10.359 | 0.841 | -9.964 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | | | | | MAX FAN | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | JRE EI | FF EFF | ' FA | AN FA | N RATIC |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | |
| | | | | | | | | | | | | |
| SUPPLY | 398. | 1.00 | 0.117 | 0.91 | | 1.2 0. | 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 L6 E (G | LESE7) APT | 1 | 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 | IDE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | |
|------------|------------|-----------|----------|---------|---------|-----------|----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | . I | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | ? |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | rio (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | |
| PVVT | 1.000 | 640.8 | 1. | 0.0 | 000 | 8.385 | 0.839 | -8.068 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | | | | | MAX FAN | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | F EFF | ' FA | AN FAI | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | |
| SUPPLY | 321. | 1.00 | 0.094 | 0.91 | Ē | 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 W (G | 3.W8) APT1 | | 321. | 39. | 0.028 | 1.000 | 0. | 0.00 | 0.00 | 6.93 | 0.00 | -11.44 1. |

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

| | • | _ | | | | | | | | | | |
|------------|-------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
| SYSTEM | ALTITUDE | AREA | MAX | I P | AIR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 1 |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 925.4 | 2. | 0.0 | 000 | 11.742 | 0.834 | -11.296 | 0.210 | 0.219 | 0.000 | ı |
| | | DIVERSITY | POWER | FAN | STA' | FIC TOTA | AL MECH | I | | MAX FAN | MIN FAN | ī |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | JRE EI | 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 | 446. | 1.00 | 0.131 | 0.91 | : | 1.2 0.5 | 50 0.62 | DRAW-TH | RU CYCLIN | G 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 L6 N (G | G.NW9) APT1 | - | 446. | 56. | 0.040 | 1.000 | 0. | 0.00 | 0.00 | 9.64 | 0.00 | -15.91 1. |

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

| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTS: | | OOLING PACITY S | SENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUME SUPP-HEAT | |
|------------|------------|---------------|---------|---------|---------|--------------------|-----------|---------------------|----------------|----------------|------------------------|---------------|
| TYPE | FACTOR | (SQFT) | PEOPL | E RAT | rio (KB | ru/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) |) |
| PVVT | 1.000 | 749.0 | 1 | . 0.0 | 000 | 4.539 | 0.818 | -4.370 | 0.211 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | | | | | MAX FAN | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | F2 | AN FA | N RATIC | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 168. | 1.00 | 0.049 | 0.91 | ā | 1.2 0.5 | 0.62 | DRAW-THI | 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 L6 N (G | .NE10) APT | 1 | 168. | 45. | 0.032 | 1.000 | 0. | 0.00 | 0.00 | 3.63 | 0.00 | -5.99 1. |

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NW11)

| SYSTEM | ALTITUDE | FLOOR AREA | MA | | AIR CAI | | SENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUMI SUPP-HEAT | Г |
|------------|-------------|---------------|---------|---------|----------|-----------|-----------|---------------------|----------------|----------------|------------------------|----------------|
| TYPE | FACTOR | (SQFT) | PEOPL! | E RAT | rio (KB | ru/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 | | | | | MAX FAN | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE EI | 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 | 198. | 1.00 | 0.058 | 0.91 | 1 | 1.2 0.5 | 0.62 | DRAW-THI | 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 L6 N (G | G.NW11) APT | 1:1 | 198. | 43. | 0.031 | 1.000 | 0. | 0.00 | 0.00 | 4.28 | 0.00 | -7.06 1. |

SUPPLY EXHAUST

| | - | Design Para | | - | 1 (PVVT) (G | .NE12) | | | WEATHER FILE- SEATTLE BOEING FI WA | | | |
|--------|----------|-------------|--------|---------|-------------|--------|--------|-----------|------------------------------------|-----------|-----------|--|
| | | FLOOR | | OUTSI | DE COOLI | NG | | HEATING | COOLING | HEATING | HEAT PUMP | |
| SYSTEM | ALTITUDE | AREA | MAX | A | AIR CAPACIT | | NSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KBTU/H | R) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| VVT | 1.000 | 1265.9 | 2. | 0.0 | 00 7.0 | 0.838 | | -6.747 | 0.210 | 0.219 | 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 FAI | RATIO | RATIO | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER) | (FRAC) | (FRAC) | PLACEME | NT CONTROL | (FRAC) | (FRAC) | |
| SUPPLY | 268. | 1.00 | 0.079 | 0.91 | 1.2 | 0.50 | 0.62 | DRAW-TH | RU CYCLING | 1.00 | 0.30 | |

MINIMUM OUTSIDE COOLING 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 L6 N (G.NE12) APT1 | 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 L6 Sys1 (PVVT) (G.ESE13)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MA: PEOPL: | | AIR CAI | DOLING PACITY TU/HR) | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUM SUPP-HEA' (KBTU/HR | г |
|----------------|--------------------|--------------------------|-----------------|----------------|----------------|----------------------------|-------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------------|----------------|
| PVVT | 1.000 | 679.6 | 1 | . 0.0 | 000 | 3.316 | 0.829 | -3.192 | 0.211 | 0.219 | 0.00 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA: PRESSI | | AL MECH | | an fa | MAX FAN N RATIO | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 125. | 1.00 | 0.037 | 0.91 | Ē | 1.2 0. | 50 0.62 | P DRAW-TH | RU CYCLIN | G 1.00 | 0.3 |) |
| | | S | UPPLY E | XHAUST | | MINIMUM | OUTSIDE | COOLING | E | XTRACTION | HEATING | ADDITION |
| ZONE | | | FLOW | FLOW | FAN | FLOW | AIR FLOW | CAPACITY | | | 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 | т1 | 125. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 2.70 | 0.00 | -4.46 1. |

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.WSW5)

| | | _ | | - | | | | | | | | |
|------------|-------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | • |
| SYSTEM | ALTITUDE | AREA | MAX | | AIR CA | PACITY S | 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 | 956.7 | 2. | 0.0 | 000 | 13.339 | 0.835 | -12.828 | 0.210 | 0.219 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA | ric tota | AL MECH | I | | MAX FAI | N MIN FAI | Л |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | JRE EI | 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 | 508. | 1.00 | 0.149 | 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 ZON |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MUL |
| Zn L7 W (G | G.WSW5) API | 1:1 | 508. | 58. | 0.041 | 1.000 | 0. | 0.00 | 0.00 | 10.98 | 0.00 | -18.11 1 |

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.S6)

| | - | _ | | 2 | , | , , | | | | | | |
|------------|------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | FLOOR | | OUTS | | OLING | | HEATING | COOLING | HEATING | HEAT PUMI | |
| SYSTEM | ALTITUDE | AREA | MAX | ζ Z | AIR CAP | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RAT | rio (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 | IC TOTA | AL MECH | I | | MAX FAI | 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 | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC |) (FRAC | |
| SUPPLY | 613. | 1.00 | 0.180 | 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 L7 S (G | G.S6) APT3 | | 613. | 124. | 0.089 | 1.000 | 0. | 0.00 | 0.00 | 13.24 | 0.00 | -21.84 1. |

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

| | / | Debign rara | | | (, | (| , | | | | | |
|------------|-------------|-------------|----------|---------|----------|---------|-----------|-----------|-----------|-------------|-----------|---------------|
| | | 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) | 1 |
| PVVT | 1.000 | 1233.6 | 2. | 0.0 | 000 1 | 0.090 | 0.841 | -9.705 | 0.210 | 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 El | 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 | 388. | 1.00 | 0.114 | 0.91 | 1 | .2 0.9 | 50 0.62 | P 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 E (G | G.ESE7) APT | 1 | 388. | 74. | 0.053 | 1.000 | 0. | 0.00 | 0.00 | 8.38 | 0.00 | -13.83 1. |

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.W8)

| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI | |
|------------|-----------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | . I | AIR CA | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | ? |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (KB | ru/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 640.8 | 1. | 0.0 | 000 | 7.853 | 0.834 | -7.556 | 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 | PRESS | JRE 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 | 1 |
| SUPPLY | 298. | 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 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)

| | | FLOOR | | OUTSI | DE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUME | , |
|------------|-------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | | 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 | 938.6 | 2. | 0.0 | 000 1 | 2.008 | 0.834 | -11.551 | 0.210 | 0.219 | 0.000 | ı |
| | | DIVERSITY | POWER | FAN | STAT | IC TOT | AL MECH | | | MAX FAN | MIN FAN | ī |
| 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 | C) (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 | 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 L7 N (G | 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)

| | | | | | | (0.14110) | | | | | | |
|------------|-------------|-----------|-----------|---------|----------|-----------|----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTSI | DE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUME | , |
| SYSTEM | ALTITUDE | AREA | MAX | P | IR CAP | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 1 |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KBT | J/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 681.8 | 1. | 0.0 | 100 | 4.566 | 0.820 | -4.395 | 0.211 | 0.219 | 0.000 | 1 |
| | | DIVERSITY | POWER | FAN | STAT | IC TOTA | AL MECH | | | MAX FAN | MIN FAN | ī |
| 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 | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 170. | 1.00 | 0.050 | 0.91 | 1 | .2 0.5 | 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 | 1 |
| | | S | SUPPLY 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 (6 | G.NE10) APT | 1 | 170. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 3.67 | 0.00 | -6.05 1. |

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NW11)

| | • | _ | | - | | | | | | | | |
|------------|-------------|---------------|----------|---------|----------|--------------------|----------|---------------------|----------------|----------------|------------|---------------|
| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTSI | | OOLING PACITY S | ENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUMP | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | IO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| 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 | TIC TOTA | L MECH | Į. | | MAX FAN | I MIN FAN | ī |
| 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 | 199. | 1.00 | 0.058 | 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 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. |

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NE12)

| | - | _ | | - | | | | | | | | |
|------------|------------|---------------|----------|---------|----------|--------------------|----------|---------------------|-----------|----------------|-------------|---------------|
| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTSI | | OOLING PACITY S | ENSIBLE | HEATING CAPACITY | COOLING | HEATING EIR | HEAT PUME | |
| TYPE | FACTOR | (SQFT) | PEOPLE | | | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 1265.9 | 2. | 0.0 | 00 | 7.856 | 0.839 | -7.559 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | TIC TOTA | L MECH | | | MAX FAN | N MIN FAN | I |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE EF | F EFF | F | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRAC | (FRAC) | PLACEMEI | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 301. | 1.00 | 0.088 | 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 L7 N (G | .NE12) APT | 12 | 301. | 76. | 0.054 | 1.000 | 0. | 0.00 | 0.00 | 6.50 | 0.00 | -10.72 1. |

NAME

Zn L7 E (G.ESE13) APT1

0.00 -4.28 1.

0.00 0.00 2.59

| REPORT- SV-A Svs | stem Design Daram | eters for I.7 | Syc1 (DIAM) | (G ESE13) |
|------------------|-------------------|---------------|-------------|-----------|

(CFM)

(CFM)

120. 41. 0.029 1.000 0.

WEATHER FILE- SEATTLE BOEING FI WA ______ FLOOR OUTSIDE COOLING HEATING COOLING HEATING HEAT PUMP
AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR EIR SUPP-HEAT
(SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (KBTU/HR) SYSTEM ALTITUDE AREA
TYPE FACTOR (SQFT) PVVT 1.000 679.6 0.000 3.149 0.835 -3.031 0.211 0.219 POWER FAN STATIC TOTAL MECH MAX FAN MIN FAN DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO DIVERSITY FAN CAPACITY FACTOR (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL TYPE (CFM) (KW) SUPPLY 120. 1.00 0.035 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30 MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE SUPPLY EXHAUST MINIMUM OUTSIDE COOLING MINIMUM OUTSIDE COOLING EXTRACTION HEATING ADDITION

FAN FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY RATE ZONE

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

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

| | | | | | | | , , | | | | | |
|------------|-------------|-----------|----------|---------|----------|----------|----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTSI | DE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUMP | |
| SYSTEM | ALTITUDE | AREA | MAX | I P | 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 | 5740.4 | 11. | 0.0 | 000 8 | 8.026 | 0.840 | -84.636 | 0.210 | 0.218 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STAT | IC TOT# | AL MECH | I | | MAX FAN | MIN FAN | |
| 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 | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 3379. | 1.00 | 0.991 | 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 W (M | M.WSW20) AP | т1 | 563. | 58. | 0.041 | 1.000 | 0. | 0.00 | 0.00 | 12.16 | 0.00 | -20.07 6. |

ALTITUDE AREA FACTOR (SQFT)

SYSTEM ALTITUDE

TYPE

PVVT

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.S21)

FLOOR

AREA

MAX

PEOPLE

1.000 12416.1 23. 0.000 109.344

| L8 Sys1 (| PVVT) (M.S2 | 1) | | WEATH | ER FILE- SE | ATTLE BOEING | FI WA |
|-------------------------|----------------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|-------|
| OUTSIDE AIR RATIO | COOLING CAPACITY (KBTU/HR) | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUMP SUPP-HEAT (KBTU/HR) | |
| 0.000 | 109.344 | 0.842 | -105.225 | 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 | FAN | FAN | RATIO | RATIO |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER) | (FRAC) | (FRAC) | PLACEMENT | CONTROL | (FRAC) | (FRAC) |
| | | | | | | | | | | | |
| SUPPLY | 4212. | 1.00 | 1.236 | 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 L8 S (M.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)

| | | FLOOR | | OUTS | IDE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI | • |
|------------|-------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-------------|-----------|----------------|
| SYSTEM | ALTITUDE | AREA | MAX | . I | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | ľ |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | TIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 7401.4 | 14. | 0.0 | 000 | 71.850 | 0.842 | -69.097 | 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 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 | 2768. | 1.00 | 0.812 | 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 L8 E (M | M.ESE22) AF | т1 | 461. | 74. | 0.053 | 1.000 | 0. | 0.00 | 0.00 | 9.96 | 0.00 | -16.44 6. |

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.W23)

| | - | | | | | , , , , , , , | | | | | | |
|------------|------------|-----------|----------|---------|---------|---------------|-----------|-----------|-----------|-------------|-----------|---------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
| SYSTEM | ALTITUDE | AREA | MAX | I P | AIR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 1 |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (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 | ı |
| | | DIVERSITY | POWER | FAN | STA | FIC TOTA | AL MECH | I | | MAX FAN | N MIN FAN | ī |
| 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) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 1996. | 1.00 | 0.586 | 0.91 | : | 1.2 0.9 | 0.62 | P 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 L8 W (M | .W23) APT1 | - | 333. | 39. | 0.028 | 1.000 | 0. | 0.00 | 0.00 | 7.19 | 0.00 | -11.86 6. |

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NW24)

| 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) | 1 |
|----------------|--------------------|--------------------------|-----------------|----------------|---------|------------------------------|-------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|---------------|
| PVVT | 1.000 | 5631.6 | 11. | 0.0 | 000 | 80.089 | 0.836 | -77.031 | 0.210 | 0.219 | 0.000 | 1 |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA' | | AL MECH | | AN FA | MAX FAN N RATIO | | |
| 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 | DRAW-TH | RU CYCLIN | G 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 | | CAPACITY | RATE ZONE |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) (| KBTU/HR) (| KBTU/HR) MULT |
| Zn L8 N (M | I.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 Design | Parameters | for | L8 Sys1 | (PV/VT) | (M NE25) |
|--------------|---------------|------------|-----|---------|----------|----------|

| | / | Debign rara | | 2- | , (1,1,1) | (11111223 | , | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
|------------|-------------|-------------|----------|---------|-----------|-----------|-----------|-----------|---|-------------|-----------|---------------|
| | | FLOOR | | OUTSI | DE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUM | |
| SYSTEM | ALTITUDE | AREA | MAX | . A | AIR CAP | ACITY | 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 | 4090.5 | 8. | 0.0 | 000 3 | 2.561 | 0.836 | -31.340 | 0.211 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | IC TOT | AL MECH | I | | MAX FAN | MIN FAI | ī |
| 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 | 1241. | 1.00 | 0.364 | 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 L8 N (M | 1.NE25) APT | 1. | 207. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 4.47 | 0.00 | -7.37 6. |

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

| | | | | | (, | | , | | | | | |
|------------|-------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTS | IDE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUME | |
| SYSTEM | ALTITUDE | AREA | MAX | I | AIR CAE | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | : |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | rio (KBT | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 4268.2 | 8. | 0.0 | 000 4 | 11.553 | 0.839 | -39.986 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | CIC TOTA | AL MECH | [| | MAX FAN | MIN FAN | I |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | F. | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 1592. | 1.00 | 0.467 | 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 L8 N (M | 1.NW26) APT | 1:1 | 265. | 43. | 0.031 | 1.000 | 0. | 0.00 | 0.00 | 5.73 | 0.00 | -9.45 6 |

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NE27)

| | | FLOOR | | OUTS | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | > | |
|------------|-------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-------------|-----------|--------------|----|
| 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 | 7595.5 | 14. | . 0.0 | 000 | 57.511 | 0.841 | -55.325 | 0.210 | 0.219 | 0.000 |) | |
| | | DIVERSITY | POWER | FAN | STA | TIC TOT. | AL MECH | | | MAX FAN | N MIN FAI | 1 | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | URE E | FF EFF | F F | AN FA | N RATIO |) RATIO |) | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEMEI | NT CONTRO | L (FRAC) | (FRAC | | |
| SUPPLY | 2209. | 1.00 | 0.648 | 0.91 | | 1.2 0. | 50 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 ZOI | NE |
| NAME | | (| CFM) | (CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) (| (KBTU/HR) | KBTU/HR) MUI | LT |
| Zn L8 N (M | 1.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)

| | | | | | | | · , | | | | | |
|------------|-------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|------------|---------------|
| | | FLOOR | | OUTS | IDE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUMP | |
| 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 | 4077.3 | 8. | 0.0 | 000 2 | 4.620 | 0.839 | -23.698 | 0.211 | 0.219 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STAT | IC TOTA | AL MECH | I | | MAX FAN | MIN FAN | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | RE EF | FF EFF | F | AN FA | N RATIO |) RATIC | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 943. | 1.00 | 0.277 | 0.91 | 1 | .2 0.5 | 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 L8 E (M | M.ESE28) AF | T1 | 157. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 3.39 | 0.00 | -5.60 6. |

NAME

Zn L14 W (T.WSW35) APT1

0.00 -22.30 1.

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

0.00 0.00 13.51

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

(CFM)

(CFM)

(KW)

626. 58. 0.041 1.000 0.

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 MAX PEOPLE (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR) PVVT 1.000 956.7 2. 0.000 16.279 0.841 -14.686 0.197 0.218 0.000 POWER FAN STATIC TOTAL MECH DEMAND DELTA-T PRESSURE EFF EFF FAN FAN MAX FAN MIN FAN DIVERSITY FAN CAPACITY FACTOR RATIO RATIO TYPE (CFM) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL SUPPLY 626. 1.00 0.184 0.91 1.2 0.50 0.62 DRAW-THRU CYCLING 1.00 0.30 SUPPLY EXHAUST EXTRACTION HEATING ADDITION MINIMUM OUTSIDE COOLING FLOW AIR FLOW CAPACITY SENSIBLE RATE CAPACITY FAN ZONE FLOW FLOW RATE ZONE REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.S36)

| | - | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|-----------|-----------|--------------|-----------|------------|--------------|----------------|
| | | FLOOR | | OUTS | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | ? |
| SYSTEM | ALTITUDE | AREA | MAX | I I | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA' | Γ |
| TYPE | FACTOR | (SQFT) | PEOPLI | RAT | CIO (KB | ru/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 2069.4 | 4 . | 0.0 | 000 | 21.559 | 0.843 | -20.744 | 0.210 | 0.219 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA | ric tota | AL MECH | r | | MAX FAI | N MIN FAI | vī. |
| F13.37 | CADACITUM. | | | | | | | | | | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | | FF EFF | | AN FA | | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAG | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) |) (FRAC |) |
| | | | | | | | | | | | | |
| SUPPLY | 832. | 1.00 | 0.244 | 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 ZONE |
| NAME | | (| CFM) | CFM) | (KW) | (FRAC) | (CEM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTII/HR) | (KBTU/HR) MULT |
| 1411111 | | , | CIPI / | CITY / | (1011) | (Titale) | (СГП) | (ICDIO/IIIC) | (Time) | (RBIO/IRC) | (ICDIO/IIIC) | (RDIO/IR) NOBI |
| Zn L14 S (| T.S36) APT | 13 | 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)

| | | DODIJII I GIG | | 2 | | , (1.252 | , | | | | | |
|------------|------------|---------------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|-----------|---------------|
| | | FLOOR | | OUTS | IDE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
| SYSTEM | ALTITUDE | AREA | MAX | I I | AIR CAP | ACITY : | 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 | 1233.6 | 2. | 0.0 | 000 1 | 6.585 | 0.844 | -14.962 | 0.197 | 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 RATIO | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 641. | 1.00 | 0.188 | 0.91 | 1 | .2 0. | 50 0.62 | P 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 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) | MAX PEOPLE | | 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) | r |
|----------------|--------------------|--------------------------|-----------------|----------------|---------------|------------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|----------------|
| PVVT | 1.000 | 640.8 | 1. | 0.0 | 000 | 9.585 | 0.840 | -9.221 | 0.210 | 0.219 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA' PRESS | URE E | FF EFF | F | AN FA | |) RATIO | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 368. | 1.00 | 0.108 | 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) | (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. |

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NW39)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX 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) | ? |
|----------------|--------------------|--------------------------|-----------------|----------------|--------------|------------------------------|-------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|---------------|
| PVVT | 1.000 | 938.6 | 2 | . 0.0 | 000 | 14.461 | 0.837 | -13.908 | 0.210 | 0.219 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA PRESS | | AL MECH | | AN FA | MAX FAN N 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 | 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.NW39) AP | т1 | 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)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MA: PEOPLI | | AIR CAI | OOLING PACITY FU/HR) | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUMI SUPP-HEAM (KBTU/HR | г |
|----------------|--------------------|-------------------------------|-------------------------|--------------------------|-------------|----------------------------|-------------------|----------------------------------|-----------------------------|----------------------------------|------------------------------------|-----------------------------------|
| PVVT | 1.000 | 681.8 | 1 | . 0.0 | 000 | 5.202 | 0.823 | -5.007 | 0.211 | 0.219 | 0.00 |) |
| 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 | 194. | 1.00 | 0.057 | 0.91 | | 1.2 0. | | | | | | |
| ZONE NAME | | | FLOW | KHAUST FLOW (CFM) | FAN (KW) | MINIMUM FLOW (FRAC) | | CAPACITY | SENSIBLE | XTRACTION RATE (KBTU/HR) (| HEATING CAPACITY KBTU/HR) | ADDITION RATE ZONE (KBTU/HR) MULT |
| Zn L14 N (| T.NE40) AF | | 194. | 41. | 0.029 | 1.000 | | | | 4.20 | 0.00 | -6.93 1. |

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NW41)

| 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 PUMI SUPP-HEAT (KBTU/HR | |
|----------------|--------------------|--------------------------|-----------------|----------------|---------|------------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|------------------------------------|---------------|
| PVVT | 1.000 | 711.4 | 1. | . 0.0 | 000 | 6.339 | 0.827 | -6.102 | 0.211 | 0.219 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STAT | JRE EF | FF EFF | F | AN FA | |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | (FRAC) | PLACEMEI | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 238. | 1.00 | 0.070 | 0.91 | = | 1.2 0.5 | 0.62 | DRAW-THI | RU CYCLIN | G 1.00 | 0.30 |) |
| | | S | SUPPLY 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.NW41) AP | Т1 | 238. | 43. | 0.031 | 1.000 | 0. | 0.00 | 0.00 | 5.15 | 0.00 | -8.50 1. |

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NE42)

| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTS: | | OOLING PACITY S | ENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUME | |
|------------|------------|---------------|---------|---------|----------|--------------------|----------|---------------------|----------------|----------------|------------|---------------|
| TYPE | FACTOR | (SQFT) | PEOPL | E RAT | TIO (KBT | U/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 1265.9 | 2 | . 0.0 | 000 1 | 4.252 | 0.840 | -13.705 | 0.210 | 0.218 | 0.000 | ı |
| | | 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 | F | AN FA | N RATIC | RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 547. | 1.00 | 0.161 | 0.91 | 1 | 2 0.5 | 0.62 | DRAW-THI | RU CYCLIN | G 1.00 | 0.30 | ı |
| | | 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 L14 N (| T.NE42) AP | т1 | 547. | 76. | 0.054 | 1.000 | 0. | 0.00 | 0.00 | 11.82 | 0.00 | -19.50 1. |

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.ESE43)

| | = | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|--------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | P |
| SYSTEM | ALTITUDE | AREA | MAX | . A | IR CA | PACITY : | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA' | Γ |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 679.6 | 1. | 0.0 | 00 | 6.748 | 0.839 | -6.494 | 0.211 | 0.219 | 0.00 | 0 |
| | | DIVERSITY | POWER | FAN | STA | TIC TOT | AL MECH | I | | MAX FAI | N MIN FAI | N |
| 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 | 259. | 1.00 | 0.076 | 0.91 | | 1.2 0. | 50 0.62 | 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 | CAPACITY | SENSIBLE | RATE | CAPACITY | RATE ZO |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MU |
| Zn L14 E (| T.ESE43) A | PT1 | 259. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 5.59 | 0.00 | -9.22 |

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.SW5)

| 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 PUMI SUPP-HEAT (KBTU/HR) | |
|----------------|--------------------|--------------------------|-----------------|----------------|--------------|----------------------------|-------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|---------------|
| PVVT | 1.000 | 1302.8 | 2. | 0.0 | 000 | 17.267 | 0.834 | -15.576 | 0.197 | 0.218 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA PRESS | | AL MECH | | an fa | MAX FAN N RATIO | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | |
| SUPPLY | 657. | 1.00 | 0.193 | 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 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)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLE | | AIR CAI | OOLING PACITY : | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUMI SUPP-HEAT (KBTU/HR) | г |
|----------------|--------------------|-------------------------------|-------------------------|--------------------------|---------|---------------------------|-------------------------------|----------------------------------|-----------------------------|----------------------------------|-------------------------------------|-----------------------------------|
| PVVT | 1.000 | 640.8 | 1. | 0.0 | 000 | 8.785 | 0.835 | -8.452 | 0.210 | 0.219 | 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 | 334. | 1.00 | 0.098 | 0.91 | | 1.2 0. | | | | | | |
| ZONE NAME | | | FLOW | KHAUST FLOW (CFM) | FAN | MINIMUM FLOW (FRAC) | OUTSIDE AIR FLOW (CFM) | CAPACITY | SENSIBLE | XTRACTION RATE (KBTU/HR) (| HEATING CAPACITY KBTU/HR) | ADDITION RATE ZONE (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)

| | | FLOOR | | OUTSI | IDE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUME | |
|------------|------------|-----------|----------|---------|----------|----------|----------|-----------|-----------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | I P | 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 | 937.6 | 2. | 0.0 | 000 1 | 3.241 | 0.835 | -12.736 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | IC TOTA | AL MECH | Ī | | MAX FAN | MIN FAN | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | RE EI | 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 | 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) APT | 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)

| | | | | | | | , | | | | | |
|------------|------------|-----------|----------|---------|----------|---------|-----------|-----------|------------|-------------|------------|---------------|
| | | 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 | 543.9 | 5. | 1.0 | 000 1 | 4.340 | 0.601 | -13.791 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | IC TOTA | AL MECH | Ī | | MAX FAN | MIN FAN | ī |
| 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 | 300. | 1.00 | 0.090 | 0.93 | 0 | .0 0.! | 50 0.00 | 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.NE8) AMN | 1 | 300. | 0. | 0.000 | 1.000 | 300. | 0.00 | 0.00 | 6.48 | 0.00 | -10.69 1. |

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

| | - A Dybeem | Design rara | | | /BI (FVVI) | (G.NE) | , | | | EK FIDE SE | SATILE BOE. | |
|------------|------------|-------------|----------|---------|------------|---------|-----------|-----------|------------|-------------|-------------|---------------|
| | | FLOOR | | OUTS | IDE COO | LING | | HEATING | COOLING | HEATING | HEAT PUM | |
| 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 | 1 |
| PVVT | 1.000 | 1484.8 | 15. | 0.3 | 391 26 | 5.896 | 0.686 | -27.876 | 0.226 | 0.218 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STATI | C TOT | AL MECH | I | | MAX FAN | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSUF | E E | FF EFF | F | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER | (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | 1 |
| SUPPLY | 767. | 1.00 | 0.225 | 0.91 | 1. | 2 0. | 50 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 L15 N (| G.NE9) AMN | ı | 767. | 0. | 0.000 | 1.000 | 300. | 0.00 | 0.00 | 16.57 | 0.00 | -27.34 1. |

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.SSE12)

| REFORT BY | | | | | | , (0.655 | | | | | | |
|------------|------------|-----------|----------|---------|----------|----------|-----------|-----------|------------|-------------|------------|---------------|
| | | FLOOR | | OUTSI | IDE CO | OLING | | HEATING | COOLING | HEATING | HEAT PUMP | |
| SYSTEM | ALTITUDE | AREA | MAX | ζ / | AIR CAP | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | E 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 | | AL MECH | I | | MAX FAN | MIN FAN | |
| 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 | 786. | 1.00 | 0.230 | 0.91 | 1 | .2 0.! | 0.62 | DRAW-TH | RU CONSTAN | T 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 L15 S (| G.SSE12) F | IT | 786. | 0. | 0.000 | 1.000 | 300. | 0.00 | 0.00 | 16.97 | 0.00 | -28.00 1. |

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.SW5)

| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTS | | OOLING PACITY S | SENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUME | |
|------------|-------------|---------------|--------|---------|---------|--------------------|----------|---------------------|----------------|----------------|-----------|---------------|
| TYPE | FACTOR | (SQFT) | PEOPL | | | 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 | 0.000 | |
| | | | | | | | | | | | | |
| | | DIVERSITY | POWER | FAN | STA' | ric Tota | AL MECH | | | MAX FAN | N MIN FAN | r |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSI | | | | AN FA | | | |
| TYPE | (CFM) | (FRAC) | (KW) | | (IN-WAT | | | | | | | |
| | | | | | | | | | | | | |
| SUPPLY | 638. | 1.00 | 0.187 | 0.91 | : | 1.2 0. | 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | S | | KHAUST | | MINIMUM | OUTSIDE | | | 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) API | 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)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLI | | 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) | 1 |
|----------------|--------------------|--------------------------|-----------------|----------------|---------------|------------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------------|---------------|
| PVVT | 1.000 | 640.8 | 1. | 0.0 | 000 | 8.086 | 0.834 | -7.781 | 0.210 | 0.219 | 0.000 | |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA' PRESS | URE E | FF EFF | F | an fa | | RATIC |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 307. | 1.00 | 0.090 | 0.91 | : | 1.2 0.5 | 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 | |
| 5017 | | S | | KHAUST | | MINIMUM | OUTSIDE | | | XTRACTION | | 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 L16 W (| G.W6) APT1 | | 307. | 39. | 0.028 | 1.000 | 0. | 0.00 | 0.00 | 6.64 | 0.00 | -10.95 1. |

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NW7)

| | | FLOOR | | OUTSI | IDE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUME | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | | AIR CA | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | : |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | TIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 939.7 | 2. | 0.0 | 000 | 12.453 | 0.834 | -11.979 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOT | AL MECH | I | | MAX FAN | MIN FAN | ī |
| 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) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 474. | 1.00 | 0.139 | 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 L16 N (| G.NW7) API | 1 | 474. | 56. | 0.040 | 1.000 | 0. | 0.00 | 0.00 | 10.23 | 0.00 | -16.88 1. |

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NE8)

| | - | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | ? |
| SYSTEM | ALTITUDE | AREA | MAX | . A | IR CA | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA' | Γ |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | IO (KB | TU/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 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOTA | AL MECH | Į. | | MAX FAI | N MIN FA | Ŋ |
| 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 | 183. | 1.00 | 0.054 | 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 ZOI |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MUI |
| Zn L16 N (| G.NE8) APT | 1:1 | 183. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 3.95 | 0.00 | -6.51 |

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NNE9)

| | | | | | | | · , | | | | | |
|------------|------------|-----------|----------|---------|---------|-----------|-----------|-----------|-----------|-------------|-----------|----------------|
| | | 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 | 1195.4 | 2 . | 0.0 | 000 | 11.439 | 0.828 | -11.003 | 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 | PRESSU | 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 | 431. | 1.00 | 0.126 | 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 L16 N (| G.NNE9) AF | T1 | 431. | 72. | 0.051 | 1.000 | 0. | 0.00 | 0.00 | 9.31 | 0.00 | -15.36 1. |

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.S12)

| 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 PUMI SUPP-HEAT (KBTU/HR | Г |
|----------------|--------------------|--------------------------|-----------------|----------------|---------------|------------------------------|-------------------|----------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------|
| PVVT | 1.000 | 766.1 | 1. | 0.0 | 000 | 6.896 | 0.842 | -6.636 | 0.210 | 0.219 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA' PRESS | | AL MECH | | an fa | MAX FAI | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC |) (FRAC |) |
| SUPPLY | 265. | 1.00 | 0.078 | 0.91 | | 1.2 0. | 50 0.62 | PRAW-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 | 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)

| | | FLOOR | | OUTSI | IDE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI | |
|------------|------------|-----------|----------|---------|---------|-----------|----------|-----------|-----------|-----------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | ζ / | AIR CAI | PACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | : |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RAT | rio (KB | ru/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 | TIC TOTA | AL MECH | Į. | | MAX FAI | N MIN FAI | I |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE EI | F EFF | F | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC | (FRAC | |
| SUPPLY | 401. | 1.00 | 0.118 | 0.91 | Ē | 1.2 0.9 | 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 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)

| | | FLOOR | | OUTSI | IDE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUMP | |
|------------|------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | I P | AIR CAF | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | TIO (KBI | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 452.6 | 1. | 0.0 | 000 | 7.068 | 0.842 | -6.802 | 0.210 | 0.219 | 0.000 | |
| | | DIVERSITY | POWER | FAN | STAT | CIC TOTA | AL MECH | Ī | | MAX FAN | MIN FAN | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | FF EFF | F. | AN FA | N RATIO | RATIO | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | |
| SUPPLY | 272. | 1.00 | 0.080 | 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 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)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLI | | AIR CAI | OOLING PACITY S TU/HR) | ENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUMI SUPP-HEAT (KBTU/HR | r |
|----------------|--------------------|--------------------------|-----------------|----------------|----------------|------------------------------|---------------|----------------------------------|-----------------------------|-----------------------------|------------------------------------|----------------|
| PVVT | 1.000 | 13613.1 | 26 | . 0.0 | 000 1 | 79.226 | 0.839 | -185.908 | 0.226 | 0.218 | 0.000 | |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA: PRESSI | | | | AN FA | MAX FAN N RATIO | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 6863. | 1.00 | 2.014 | 0.91 | Ē | 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) | (FRAC) | (KBTU/HR) (| (KBTU/HR) | (KBTU/HR) MULT |
| Zn L17 S (| M.SW20) AP | т1 | 686. | 82. | 0.058 | 1.000 | 0. | 0.00 | 0.00 | 14.82 | 0.00 | -24.46 10. |

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

| | | FLOOR | | OUTSI | IDE CO | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | | | |
|------------|------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|-----------|---------------|--|--|
| SYSTEM | ALTITUDE | AREA | MAX | ζ , | AIR CAI | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | | | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | rio (KB7 | ru/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) | | |
| PVVT | 1.000 | 6408.2 | 12. | 0.0 | 000 | 38.496 | 0.839 | -85.144 | 0.210 | 0.219 | 0.000 |) | | |
| | | DIVERSITY | POWER | FAN | STAT | FIC 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 |) RATIO |) | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | ER) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | 1 | | |
| SUPPLY | 3391. | 1.00 | 0.995 | 0.91 | 1 | 1.2 0. | 50 0.62 | P 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 W (| M.W21) APT | 1 | 339. | 39. | 0.028 | 1.000 | 0. | 0.00 | 0.00 | 7.32 | 0.00 | -12.09 10. | | |

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.NW22)

| | - | _ | | - | | | | | | | | |
|------------|------------|---------------|----------|---------|---------|----------|-----------|---------------------|----------------|----------------|-----------|----------------|
| SYSTEM | ALTITUDE | FLOOR AREA | MAΣ | | AIR CA | | SENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | HEAT PUME | г |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RAT | TIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) |) |
| PVVT | 1.000 | 9397.0 | 18. | 0.0 | 000 1 | 37.044 | 0.836 | -131.806 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOTA | AL MECH | I | | MAX FA | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | URE 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 | 5225. | 1.00 | 1.533 | 0.91 | | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 |) |
| | | S | UPPLY EX | KHAUST | | MINIMUM | OUTSIDE | COOLING | Е | 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 PEOPLI | | AIR CA | OOLING PACITY S TU/HR) | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUM SUPP-HEA' (KBTU/HR | r |
|----------------|--------------------|--------------------------|-----------------|----------------|---------------|------------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------------|----------------|
| PVVT | 1.000 | 6761.5 | 13 | . 0.0 | 000 | 63.333 | 0.841 | -60.946 | 0.211 | 0.219 | 0.00 | 0 |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER DEMAND | FAN DELTA-T | STA' PRESS | | | | AN FA | MAX FAN N RATIO | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC |) |
| SUPPLY | 2435. | 1.00 | 0.714 | 0.91 | : | 1.2 0.5 | 0.62 | DRAW-THI | RU CYCLIN | G 1.00 | 0.3 | 0 |
| | | S | UPPLY EX | KHAUST | | MINIMUM | OUTSIDE | COOLING | я | 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 N (| M.NE23) AP | T1 | 243. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 5.26 | 0.00 | -8.68 10. |

| REPORT- SV-A S | Svetem Decian | Darameters | for I | .17 St | re1 (| (TV7/7 | (M NNF24) |
|----------------|---------------|------------|-------|--------|-------|---------|-----------|

| | | ER FILE- | | | | |
|------|-----------------|--------------|--------|-------------|------|--|
| ING | COOLING | HEATIN | IG HEA | T PUMP | | |
| ITY | EIR | EI | R SUP | P-HEAT | | |
| TD \ | (DMII (DMII) | / DMIT / DMI | (TZD) | TIT / IID \ | | |

| | | FLOOR | | OUTSI | DE CC | OLING | | HEATING | COOLING | HEATING | HEAT PUME |) |
|------------|-------------|-----------|----------|---------|----------|----------|----------|-----------|------------|-------------|------------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | . A | IR CAP | ACITY S | ENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 1 |
| 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 | 00 14 | 2.010 | 0.840 | -136.559 | 0.210 | 0.219 | 0.000 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | DIVERSITY | POWER | FAN | STAT | CIC TOTA | L MECH | | | MAX FAN | MIN FAN | ſ |
| 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 | 5452. | 1.00 | 1.600 | 0.91 | 1 | 2 0.5 | 0.62 | DRAW-THE | RU CYCLING | 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) AE | 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)

| | - | _ | | - | | | | | | | | |
|------------|------------|---------------|----------|---------|---------|--------------------|----------|---------------------|----------------|----------------|-----------|---------------|
| 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 | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 7661.5 | 14. | 0.0 | 00 | 75.587 | 0.843 | -72.729 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | ric tot <i>i</i> | AL MECH | I | | MAX FAI | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | 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 | 1 |
| SUPPLY | 2913. | 1.00 | 0.855 | 0.91 | į | 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 L17 S (| M.S27) API | 1 | 291. | 46. | 0.033 | 1.000 | 0. | 0.00 | 0.00 | 6.29 | 0.00 | -10.38 10. |

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.SE28)

| | | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|----------------|
| | | 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)

| SYSTEM | ALTITUDE | FLOOR AREA | MAX | OUTS | | OOLING PACITY | SENSIBLE | HEATING CAPACITY | COOLING EIR | HEATING EIR | | |
|------------|------------|---------------|---------|---------|---------|------------------|-----------|---------------------|----------------|----------------|-----------|----------------|
| | | | | | | | | | | | | |
| TYPE | FACTOR | (SQFT) | PEOPL | E RAT | .10 (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 4525.5 | 8 | . 0.0 | 000 | 79.788 | 0.843 | -76.769 | 0.210 | 0.219 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA' | | | | | MAX FAI | | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | URE E | FF EFF | F. 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 | 3075. | 1.00 | 0.902 | 0.91 | | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.3 |) |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | 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 L17 E (| M.ENE29) A | PT1 | 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)

| | _ | | | 2 | | | , | | | | | |
|------------|------------|-----------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | | FLOOR | | OUTS | | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI | |
| SYSTEM | ALTITUDE | AREA | MA | X. A | AIR CAI | PACITY S | 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 | 1361.3 | 3 | . 0.0 | 000 | 18.748 | 0.839 | -19.445 | 0.226 | 0.218 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOTA | AL MECH | I | | MAX FAN | I MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE EI | 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 | 718. | 1.00 | 0.211 | 0.91 | Ē | 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) MULT |
| Zn L27 S (| T.SW35) AP | Т1 | 718. | 82. | 0.058 | 1.000 | 0. | 0.00 | 0.00 | 15.52 | 0.00 | -25.60 1. |

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.W36)

| 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. |

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NW37)

| | _ | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|--------------|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | ? |
| SYSTEM | ALTITUDE | AREA | MAX | I P | 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 | 939.7 | 2. | 0.0 | 000 | 14.727 | 0.837 | -14.163 | 0.210 | 0.219 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOT | AL MECH | I | | 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 | 562. | 1.00 | 0.165 | 0.91 | | 1.2 0. | 50 0.62 | P 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 ZOI |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MU |
| Zn L27 N (| T.NW37) AF | T1 | 562. | 56. | 0.040 | 1.000 | 0. | 0.00 | 0.00 | 12.15 | 0.00 | -20.04 |

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NE38)

| | | FLOOR | | OUTSI | | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | |
|------------|-------------|-----------|----------|---------|---------|-----------|----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | ζ Z | 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 | 676.2 | 1 | . 0.0 | 000 | 5.270 | 0.824 | -5.072 | 0.211 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | ric tota | AL MECH | | | MAX FAN | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | JRE E | F EFF | F | AN FAI | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRAC | (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | |
| SUPPLY | 197. | 1.00 | 0.058 | 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 N (| (T.NE38) AP | Т1 | 197. | 41. | 0.029 | 1.000 | 0. | 0.00 | 0.00 | 4.26 | 0.00 | -7.02 1. |

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NNE39)

| | | FLOOR | | OUTS | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUMI | > |
|------------|-------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | Ι | AIR CA | PACITY : | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | 7 |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | CIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | |
| PVVT | 1.000 | 1195.4 | 2. | 0.0 | 000 | 13.894 | 0.843 | -13.360 | 0.210 | 0.218 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STA | TIC TOT | AL MECH | I | | MAX FAN | 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 | 535. | 1.00 | 0.157 | 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 L27 N (| (T.NNE39) A | PT1 | 535. | 72. | 0.051 | 1.000 | 0. | 0.00 | 0.00 | 11.57 | 0.00 | -19.08 1 |

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.S42)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLE | | AIR CAI | OOLING PACITY : | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUMI SUPP-HEAT (KBTU/HR | г |
|----------------|--------------------|--------------------------|---------------|--------------------------|---------|---------------------------|-------------------|----------------------------------|-----------------------------|----------------------------------|------------------------------------|-----------------------------------|
| PVVT | 1.000 | 766.1 | 1. | 0.0 | 000 | 8.169 | 0.843 | -7.860 | 0.210 | 0.219 | 0.000 |) |
| FAN | CAPACITY | DIVERSITY FACTOR | POWER | FAN DELTA-T | STAT | 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 | 315. | 1.00 | 0.092 | 0.91 | = | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | G 1.00 | 0.30 |) |
| ZONE NAME | | | FLOW | KHAUST FLOW (CFM) | FAN | MINIMUM FLOW (FRAC) | | CAPACITY | SENSIBLE | XTRACTION RATE (KBTU/HR) (| HEATING CAPACITY KBTU/HR) | ADDITION RATE ZONE (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. |

| REPORT- SV-A | System I | Desian | Parameters | for | T.27 | Svs1 | (PV/V/T) | (T SE43) |
|--------------|----------|--------|------------|-----|------|------|-----------|----------|

WEATHER FILE- SEATTLE BOEING FI WA REPORT- SV-A System Design Farameters for L2/ Syst (FVVI) (1.5545) #EARIDA FIDE SEARIDE DOBING FI WA FLOOR OUTSIDE COOLING HEATING COOLING 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 1.000 898.6 2. 0.000 12.860 0.844 -12.366 0.210 0.219

| | | 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) |
| | | | | | | | | | | 4 00 | |
| SUPPLY | 497. | 1.00 | 0.146 | 0.91 | 1.2 | 0.50 | 0.62 | DRAW-THRU | CYCLING | 1.00 | 0.30 |

| | SUPPLY | EXHAUST | | MINIMUM | OUTSIDE | COOLING | I | 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 L27 S (T.SE43) APT1 | 497. | 54. | 0.039 | 1.000 | 0. | 0.00 | 0.00 | 10.73 | 0.00 | -17.71 | 1. |

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

| | | FLOOR | | OUTSI | DE CC | OLING | | HEATING | COOLING | HEATING | HEAT PUM | > |
|------------|------------|-----------|----------|---------|----------|------------------|----------|-----------|-----------|-------------|-----------|---------------|
| SYSTEM | ALTITUDE | AREA | MAX | . P | 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 | 452.6 | 1. | 0.0 | 000 | 8.917 | 0.843 | -8.579 | 0.210 | 0.219 | 0.000 |) |
| | | DIVERSITY | POWER | FAN | STAT | 'IC TOT <i>I</i> | AL MECH | Į. | | MAX FAN | N MIN FAI | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSU | RE E | 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 | 344. | 1.00 | 0.101 | 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 L27 E (| T.ENE44) A | PT1 | 344. | 27. | 0.019 | 1.000 | 0. | 0.00 | 0.00 | 7.43 | 0.00 | -12.26 1. |

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

| | - | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|----------------|
| | | FLOOR | | OUTS | IDE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | ? |
| SYSTEM | ALTITUDE | AREA | MAX | Z Z | AIR CA | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA' | Г |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RAT | rio (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 1879.8 | 4 . | 0.0 | 000 | 26.184 | 0.835 | -27.140 | 0.226 | 0.218 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA' | TIC TOT. | AL MECH | I | | MAX FAI | N MIN FAI | Л |
| 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 | 997. | 1.00 | 0.293 | 0.91 | | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | IG 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 ZONE |
| NAME | | (| CFM) | CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MULT |
| Zn L28 S (| G.SW5) APT | 1 | 997. | 113. | 0.081 | 1.000 | 0. | 0.00 | 0.00 | 21.55 | 0.00 | -35.55 1. |

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.NE6)

| | - | _ | | - | | | | | | | | |
|------------|------------|-----------|----------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|----------------|
| | | FLOOR | | OUTS | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | ? |
| SYSTEM | ALTITUDE | AREA | MAX | Z Z | AIR CA | PACITY | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEA' | Γ |
| TYPE | FACTOR | (SQFT) | PEOPLE | E RAT | CIO (KB | TU/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR |) |
| PVVT | 1.000 | 1544.3 | 3. | 0.0 | 000 | 19.989 | 0.843 | -20.731 | 0.226 | 0.218 | 0.00 |) |
| | | DIVERSITY | POWER | FAN | STA' | TIC TOT. | AL MECH | I | | MAX FAI | N MIN FA | 4 |
| 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 | 771. | 1.00 | 0.226 | 0.91 | : | 1.2 0. | 50 0.62 | DRAW-TH | RU CYCLIN | IG 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 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)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SOFT) | MA: PEOPLI | | AIR CA | OOLING PACITY TU/HR) | SENSIBLE (SHR) | HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | HEAT PUM SUPP-HEA' (KBTU/HR | г |
|----------------|--------------------|--------------------------|---------------|---------|---------|----------------------------|----------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------------|----------------|
| 1111 | THOTOR | (bgii / | 1 001 0 | | 10 (10 | 10/1110/ | (Bille) | (IdD10/IIIt) | (BIO/BIO) | (BIO/BIO) | (RDIO/III | , |
| PVVT | 1.000 | 1601.0 | 3 | . 0.0 | 000 | 20.962 | 0.844 | -21.735 | 0.226 | 0.218 | 0.00 |) |
| | | | | | | | | | | | | |
| | | DIVERSITY | POWER | FAN | STA' | TIC TOT. | AL MECH | 1 | | MAX FAN | N MIN FA | 1 |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | URE E | FF EFF | F | AN FA | N RATIC |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WAT | ER) (FRA | 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 | 0.3 |) |
| | | | | | | | | | | | | |
| | | 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 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)

| | • | _ | | 2 | | | | | | | | |
|------------|------------|-----------|----------|---------|----------|----------|-----------|-----------|-----------|-------------|-----------|---------------|
| | | FLOOR | | OUTS | | OLING | | HEATING | COOLING | HEATING | HEAT PUM | |
| SYSTEM | ALTITUDE | AREA | MAX | Δ 2 | AIR CAF | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | |
| TYPE | FACTOR | (SQFT) | PEOPLI | E RAT | rio (KBI | U/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | |
| PVVT | 1.000 | 1631.5 | 3 | . 0.0 | 000 2 | 0.190 | 0.833 | -18.215 | 0.197 | 0.218 | 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 EI | FF EFF | F | AN FA | N RATIO |) RATIO |) |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATE | R) (FRAC | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC | |
| SUPPLY | 767. | 1.00 | 0.225 | 0.91 | 1 | .2 0.5 | 50 0.62 | P 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) | (KW) | (FRAC) | | (KBTU/HR) | | (KBTU/HR) (| | 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. |

REPORT- SV-A System Design Parameters for L29 Sys1 (PVVT) (G.SW5)

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOR AREA (SQFT) | MAX PEOPLE | | 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 | 1035.2 | 10. | 0.0 | 000 2 | 24.067 | 0.832 | -24.930 | 0.226 | 0.218 | 0.000 | |
| FAN TYPE | CAPACITY (CFM) | DIVERSITY FACTOR (FRAC) | POWER DEMAND (KW) | FAN DELTA-T (F) | STAT | JRE EF | F EFF | F | AN FA NT CONTRO | | RATIO | |
| SUPPLY | 912. | 1.00 | 0.267 | 0.91 | | 1.2 0.5 | | | | | | |
| ZONE NAME | | | FLOW | KHAUST FLOW CFM) | FAN (KW) | MINIMUM FLOW (FRAC) | OUTSIDE AIR FLOW (CFM) | CAPACITY | SENSIBLE | | CAPACITY | ADDITION RATE ZONE KBTU/HR) MULT |
| Zn L29 S (| (G.SW5) AMN | ı | 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)

| | - | _ | | - | | | | | | | | | |
|------------|-----------|-----------|----------|---------|---------|-----------|-----------|-----------|------------|-----------|-----------|--------------|-----|
| | | FLOOR | | OUTSI | DE C | OOLING | | HEATING | COOLING | HEATING | HEAT PUM | • | - |
| SYSTEM | ALTITUDE | AREA | MAX | A | IR CA | PACITY S | 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 | 674.1 | 22. | 0.0 | 00 | 34.163 | 0.809 | -35.433 | 0.226 | 0.218 | 0.00 |) | |
| | | DIVERSITY | POWER | FAN | STA | ric tota | AL MECH | I | | MAX FAI | N MIN FAI | Ŋ | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESS | JRE EI | 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 | 1248. | 1.00 | 0.366 | 0.91 | : | 1.2 0.9 | 50 0.62 | DRAW-TH | RU CONSTAN | т 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 | ONE |
| NAME | | (| CFM) (| CFM) | (KW) | (FRAC) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) MU | JLT |
| 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

| | | FLOOR | | OUTS | | OOLING | | | HEATING | COOLING | HEATING | | | |
|------------|-------------|-----------|--------|------------|---------|---------|------|---------|-----------|-----------|------------|-----------|-----------|------|
| SYSTEM | ALTITUDE | AREA | | | | PACITY | | SIBLE | CAPACITY | EIR | EIR | | | |
| TYPE | FACTOR | (SQFT) | PEC | OPLE RA | TIO (KB | ru/HR) | (| (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR | 2) | |
| PVVT | 1.000 | 2664.2 | | 0. 0. | 000 1 | 17.570 | (| 0.733 | -120.809 | 0.221 | 0.215 | -261.28 | 34 | |
| | | DIVERSITY | POWE | er fan | STA | ric To | OTAL | MECH | | | MAX FA | N MIN FA | ΔN | |
| FAN | CAPACITY | FACTOR | DEMAN | ND DELTA-T | PRESSI | JRE | EFF | EFF | F | AN F | AN RATI | O RATI | 0 | |
| TYPE | (CFM) | (FRAC) | (KV | (F) | (IN-WAT | ER) (FF | RAC) | (FRAC) | PLACEME | NT CONTRO | OL (FRAC |) (FRAC | 2) | |
| SUPPLY | 4178. | 1.00 | 3.27 | 73 2.42 | (| 0.0 0 | 0.00 | 0.00 | DRAW-THI | RU CYCLII | NG 1.0 | 0 0.3 | 30 | |
| | | | | | | | | | | | | | | |
| | | 2 | SUPPLY | EXHAUST | | MINIMU | JM (| OUTSIDE | COOLING | I | EXTRACTION | HEATING | ADDITION | |
| ZONE | | | FLOW | FLOW | FAN | FLC | OW A | IR FLOW | CAPACITY | SENSIBLE | RATE | CAPACITY | RATE | ZONE |
| NAME | | (| (CFM) | (CFM) | (KW) | (FRAC | 2) | (CFM) | (KBTU/HR) | (FRAC) | (KBTU/HR) | (KBTU/HR) | (KBTU/HR) | MULT |
| | | | 1.65 | 0 | 0 000 | 0.00 | | 0 | 0.00 | 0.00 | 4 51 | 0.00 | 0.00 | 1 |
| Zn L5 C (G | | | 167. | 0. | 0.000 | 0.00 | | 0. | | 0.00 | 4.51 | 0.00 | -0.00 | |
| Zn L4 C (G | | | 165. | 0. | 0.000 | 1.00 | | 0. | | 0.00 | 4.44 | 0.00 | -10.67 | |
| Zn L6 N (G | | | 165. | 0. | 0.000 | 1.00 | | 0. | | 0.00 | 4.46 | 0.00 | -10.71 | |
| Zn L7 N (G | | _ | 162. | 0. | 0.000 | 1.00 | | 0. | | 0.00 | 4.38 | 0.00 | -10.50 | |
| Zn L8 N (M | I.N19) ELEC | : | 165. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.46 | 0.00 | -10.71 | 6. |
| Zn L14 N (| T.N34) ELE | C | 172. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.65 | 0.00 | -11.16 | 1. |
| Zn L15 N (| G.N4) ELEC | ! | 171. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.61 | 0.00 | -11.07 | 1. |
| Zn L16 N (| G.N4) ELEC | : | 165. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.45 | 0.00 | -10.68 | 1. |
| Zn L17 N (| M.N19) ELE | C | 168. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.52 | 0.00 | -10.86 | 10. |
| Zn L27 N (| T.N34) ELE | C | 173. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.67 | 0.00 | -11.21 | 1. |
| Zn L28 N (| G.N4) ELEC | ! | 172. | 0. | 0.000 | 1.00 | 00 | 0. | 0.00 | 0.00 | 4.63 | 0.00 | -11.12 | 1. |

REPORT- SV-A System Design Parameters for Freeze Protect

| SYSTEM TYPE | ALTITUDE FACTOR | FLOOF AREA (SQFT) | A 1 | | AIR CA | COOLIN APACIT BTU/HR | Y SE | NSIBLE (SHR) (| HEATING CAPACITY (KBTU/HR) | COOLING EIR (BTU/BTU) | HEATING EIR (BTU/BTU) | SUPP-HEA | AT | |
|--------------------------|--------------------|-------------------------|----------------|----------------|--------------|----------------------------|----------------|--------------------|----------------------------------|-----------------------------|-----------------------------|--------------------|----------------|----------------|
| PTAC | 1.000 | 128764.8 | 3 | 0. 0. | 000 | 0.00 | 0 | 0.000 | 0.000 | 0.261 | 0.259 | -8.60 | 06 | |
| FAN | CAPACITY | DIVERSITY FACTOR | | | STA PRESS | ATIC SURE | TOTAL EFF | MECH EFF | F.F | ın F | MAX FA | | | |
| TYPE | (CFM) | (FRAC) |) (KW |) (F) | (IN-WAT | TER) | (FRAC) | (FRAC) | PLACEMEN | IT CONTRO | OL (FRAC | !) (FRA | 2) | |
| SUPPLY | 1699. | 0.00 | 0.00 | 1 2.51 | | 0.0 | 0.00 | 0.00 | BLOW-THE | U CYCLIN | IG 0.0 | 0.0 | 00 | |
| T0.17 | | | SUPPLY | EXHAUST | | | IMUM | OUTSIDE | COOLING | | XTRACTION | HEATING | ADDITION | |
| ZONE NAME | | | FLOW (CFM) | FLOW (CFM) | FAN (KW) | | FLOW . RAC) | AIR FLOW (CFM) | CAPACITY (KBTU/HR) | SENSIBLE (FRAC) | RATE (KBTU/HR) | CAPACITY (KBTU/HR) | (KBTU/HR) | ZONE MIII.T |
| While | | | (CIII) | (CIPI) | (1011) | (- | idic) | (CIII) | (RDIO/III) | (Titale) | (RDIO/III) | (RDIO/III) | (IdDIO/III) | HOLL |
| Zn L5 C (G | 3.C14) STO | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L16 C (| | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L17 C (| | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 10. |
| Zn L27 C (| | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L29 S (| G.SE/) KK | | 46. | 0. | 0.037 | 1 | .000 | 0. | 1.85 | 0.66 | 1.73 | -1.87 | -3.08 | 1. |
| Zn L1 N (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 | .C6) STR | | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L1 C (G | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| | 3.WNW3) STR | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn P1 C (B | 3.C5) STR | | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn P3 W (B | BB.WNW2) STF | 1 | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn P3 C (B | BB.C3) STR | | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn P2 W (U | B.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 | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn P4 W (B | 3.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 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L3 C (G | .C1) STR | | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L3 C (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 | .C1) STR | | 10. | 0. | 0.008 | 1 | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| 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 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L5 C (G | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L6 C (G | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L6 C (G | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| | 4 \ | | | | | _ | | _ | | | | | | |
| Zn L7 C (G | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| Zn L7 C (G | | | 10. 10. | 0. 0. | 0.008 | | .000 | 0. 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. 6. |
| Zn L8 C (M Zn L8 C (M | | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 0.66 | 0.36 | -0.40 -0.40 | -0.68 -0.68 | 6. 6. |
| | T.C31) STR | | 10. | 0. | 0.008 | | .000 | 0. | 0.40 | 0.66 | 0.36 | -0.40 | -0.68 | 1. |
| (| 1.031/ DIK | | ±0. | ٠. | 0.000 | 1 | .000 | 0. | 0.40 | 0.00 | 0.50 | 0.40 | 0.00 | |

| REPORT- SV-A System Design Parameters for | | | 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. |
| 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. |
| Zn P4 N (B.NE3) STO | 0. | 0. | 0.000 | 0.000 | 0. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1. |
| | | | | | | | | | | | |

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

| | | FLOOR | | OUTSI | DE COO | DLING | | HEATING | COOLING | HEATING | HEAT PUME | | |
|------------|----------|-----------|----------|---------|-----------|---------|-----------|-----------|------------|-------------|------------|---------------|--|
| SYSTEM | ALTITUDE | AREA | MAX | A | IR CAPA | ACITY S | SENSIBLE | CAPACITY | EIR | EIR | SUPP-HEAT | : | |
| TYPE | FACTOR | (SQFT) | PEOPLE | RAT | 'IO (KBT | J/HR) | (SHR) | (KBTU/HR) | (BTU/BTU) | (BTU/BTU) | (KBTU/HR) | | |
| PVVT | 1.000 | 1.0 | 0. | 1.0 | 00 122 | 2.937 | 0.601 | -126.697 | 0.223 | 0.216 | 0.000 |) | |
| | | DIVERSITY | POWER | FAN | STAT | IC TOTA | AL MECH | I | | MAX FAN | I MIN FAN | ī | |
| FAN | CAPACITY | FACTOR | DEMAND | DELTA-T | PRESSUE | RE E | FF EFF | ' F. | AN FA | N RATIC |) RATIC |) | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER | R) (FRA | C) (FRAC) | PLACEME | NT CONTRO | L (FRAC) | (FRAC) | | |
| SUPPLY | 2572. | 1.00 | 2.085 | 2.51 | 0 . | .0 0.0 | 0.00 | DRAW-TH | RU CONSTAN | IT 1.00 | 0.30 |) | |
| | | S | 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 | |
| RTL DOAS D | DUMMY ZN | | 2572. | 0. | 0.000 | 1.000 | 2572. | 0.00 | 0.00 | 27.78 | 0.00 | -111.10 1. | |

| REPORT- SV-A | System | Design | Parameters | for | SYS11 | Office | DOAS |
|--------------|--------|--------|------------|-----|-------|--------|------|

WEATHER FILE- SEATTLE 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 | 1.0 | C |). 1.0 | 000 68 | .463 | 0.601 | -70.706 | 0.224 | 0.217 | 0.00 | 0 |
|--------|----------|---------------------|---------|----------------|------------------|---------|----------|-----------|-----------|------------------|-----------|----------------|
| FAN | CAPACITY | DIVERSITY FACTOR | POWER | FAN DELTA-T | STATI PRESSUR | | | FAI | n FA | MAX FA N RATI | | |
| TYPE | (CFM) | (FRAC) | (KW) | (F) | (IN-WATER | | | PLACEMENT | | | | |
| SUPPLY | 1432. | 1.00 | 1.161 | 2.51 | 0. | 0 0.00 | 0.00 | DRAW-THRU | U CONSTAN | т 1.0 | 0 0.3 | 0 |
| | | s | UPPLY E | 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 |

| NAME | (CFM) | (CFM) | (KW) | (FRAC) | (CFM) (K | BTU/HR) | (FRAC) (F | (BTU/HR) | (KBTU/HR) | (KBTU/HR) M | IULT |
|-------------------|--------|--------|-------|--------|-----------|---------|-----------|----------|-----------|-------------|------|
| | | | | | | | | | | | |
| OFF DOAG DIMMY FM | 1/122 | 0 | 0 000 | 1 000 | 1 4 2 2 | 0 00 | 0 00 | 1 5 47 | 0 00 | 61 07 | 1 |

1432. 0. 0.000 1.000 1432. 0.00 0.00 15.47 0.00 -61.87 1. OFF DOAS DUMMY ZN