



Detailed Simulation Reports Summary

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DOE2 Output Quality Control

Ensuring the validity of DOE2 analysis results requires our best engineering and systems experience. There are several general principles that can help assure quality analysis with any detailed simulation tool, including:

- ◆ thorough insight into the inner workings of the simulation tool.
- ◆ thorough knowledge of the technologies being modeled
- ◆ focus on those portions of the model that are critical to your analysis
- ◆ use modeling procedures that will help prevent errors of omission

In addition to these general principles, there are at least three procedures you can use to check and assess the quality of simulation results. These include:

- 1) Develop and use output QC check lists and rules of thumb.
- 2) Report analysis results in a format that facilitates your own internal QC procedures (e.g., check the incremental impacts reported for each modeled measure).
- 3) Use output differencing or delta utilities to check key model features and measures.

Examples of each of these are provided in this section.

"10 Minute" DOE2 Output QC Checklist

Report	Check	Comments
BEPU	Percent of hours outside throttling range	Eq. size, control (see SS-R, SS-F, and SS-O)
BEPU	Percent of hours loads not satisfied	Equip sizing, control (see PS-C, and PS-H)
BEPS	Energy use & cost intensity	Btu/sqft/year from BEPS, (\$/sqft/year from ES-D)
BEPU	Energy use by category	Compare relative magnitudes
PS-E	kW and kWh by end-use (annual & monthly)	to check W/sqft, get conditioned area from LS-C
PS-D	Peak loads on loops	compare peak load (PS-D) with equip size (PV-A)
PS-C	Peak load & equipment sizes	compare peak load (PS-C) with equip size (PV-A)
PS-C	Calculate overall equipment efficiencies	Load met / energy used (see SS-P for unitary eq.)
PS-C	Equipment part-load ranges (annual)	for monthly - see PS-H, for unitary equip - see SS-P
PS-C	Total equipment operating hours	for monthly - see PS-H, for unitary equip - see SS-P
PS-A	Monthly pattern of heating and cooling loads	confirm realistic pattern (compare also SS-D & LS-D)
SS-N	Hours at Relative Humidity Levels	check RH levels by time of day
SS-J	System load and size checks	sqft/ton, cfm/sqft, min osa/per, cool/heat pk (Btuh/sf)
* any *	Proper weather file used	reported at top right corner of most reports

"30 Minute" DOE2 Output QC Checklist

Report	Check	Comments
⑩ LV-A	Proper weather file used	also reported at top right corner of most reports
LV-B	Lighting density in each space	0.6 - 2.5 W/sf, confirm no lights in plenums
LV-C	Average space height for each space	DOE2 bases this on volume/area
LV-D	Total (opaque + glass) wall area by orientation	approx equal areas for opposite orientations
LS-B	Peak space load per sqft for each space	perimeter: $\sim 25 \text{ Btu/sf*win/flr ratio*SC+Internal}$
LS-C	Peak space load per sqft (building total)	$\% \text{ core*core Btuh/sf} + \% \text{ perim*perim Btuh/sf}$
LS-C	Outdoor temperatures coincident with peak	these are used in outdoor air design load calcs.
LS-C	Building net area (modeled area)	compare to known gross building area
LS-D	Peak lighting + plug load density	compare to inputs for lights & plugs (see also PS-F)
⑧ LS-D	Monthly pattern of heating and cooling loads	confirm realistic pattern (see also SS-D & PS-A)
SV-A	Amount of outside air (if not scheduled)	check or reasonable values
SV-A	Sensible heat ratio	check or reasonable values
SS-D	Peak cooling load, square feet per ton	compare with PS-D and/or PS-C (if built-up equip)
⑧ SS-D	Monthly pattern of heating and cooling loads	confirm realistic pattern (see also LS-D & PS-A)
SS-E	Cooling/heating/simultaneous hrs & availability	ensure realistic hours (check for too much simulataneous)
SS-A	For unitary DX, monthly pattern of loads	unitary loads are not totaled in SS-D
⑤ SS-P	Average EER for unitary DX	cooling load / (compressor+fan kWh)
⑨ SS-J	System load and size checks	sqft/ton, cfm/sqft, min osa/per, cool/heat pk (Btuh/sf)
① SS-K	Avg temperature, cooling and heating hours	Compare to t-stat set points (includes unconditioned!)
① SS-O	Hours under cooled/heated by time-of-day	Compare to t-stat set points & throttling range
① SS-F	Hours under cooled/heated by zone	Excessive hours indicate faulty control
① SS-R	Hours under cooled/heated by system	Excessive hours indicate faulty control
SS-N	Hours at relative humidity levels	check RH levels by time of day
PV-A	Equipment sizes	compare with peak loads on PS-C and PS-D
⑧ PS-A	Monthly pattern of heating and cooling loads	confirm realistic pattern (compare SS-D & LS-D)
⑤ PS-C	Calculate overall equipment efficiencies	Load met / energy used (see SS-P for unitary eq.)
⑥ PS-C	Equipment part-load ranges (annual)	for monthly - see PS-H, for unitary equip - see SS-P
⑦ PS-C	Total equipment operating hours	for monthly - see PS-H, for unitary equip - see SS-P
④ PS-E	kW and kWh by end-use (annual & monthly)	to check W/sqft, get conditioned area from LS-C
③ PS-H	Average operating ratios	Equip sizing & load management check
PS-H	Peak load & equipment sizes	peak load & equipment size, 300 to 700 sqft/ton
① BEPU	Percent of hours outside throttling range	Eq. size, control, schedules (see SS-R, SS-F, SS-O)
① "	Percent of hours loads not satisfied	Equip sizing, control & schedules (see PS-C, PS-H)
② BEPU	Energy use by category	Compare relative magnitudes
② "	Energy use & cost intensity	Btu/sqft/year from BEPU, (\$/sqft/year from ES-D)

① *primary check item*

① *secondary check item (related to a primary check)*

Suggested Reporting Format

Annual Energy Use Detailed Results - Example Office Building 15 September 1998 (page 1 of 3)

	Ambient Lights kWh	Misc Eq. kWh	SHW Therms	Annual HVAC Energy					Annual Energy Total			
				Heating kWh	Cooling kWh	Fans kWh	Twr Fans kWh	Pumps kWh	Nat Gas Therms	Elect kWh	Total Site Mbtu	Total Source Mbtu
Annual Energy Use												
0 Base Case	166,654	48,526	0	0	108,632	26,050	1,171	44,540	5,860	395,573	1,936	4,636
1 0+3' Overhang	166,654	48,526	0	0	83,393	20,734	809	36,650	4,800	356,766	1,698	4,133
2 1+6' Overhang	166,654	48,526	0	0	71,077	18,338	682	31,625	4,070	336,902	1,557	3,857
3 2+Reduced LPD	133,324	48,526	0	0	65,068	16,357	605	29,841	4,500	293,720	1,452	3,457
4 3+Daylighting	84,042	48,526	0	0	55,513	14,648	468	26,291	5,020	229,488	1,285	2,852
5 4+0.6 kW/ton Chiller	84,042	48,526	0	0	34,663	14,648	403	25,227	5,020	207,509	1,210	2,627
Incremental Savings (negative entries indicate increased use)												
1 0+3' Overhang	0	0	0	0	25,239	5,316	362	7,890	1,060	38,807	238	503
2 1+6' Overhang	0	0	0	0	12,316	2,396	127	5,025	730	19,864	141	276
3 2+Reduced LPD	33,330	0	0	0	6,009	1,981	77	1,784	(430)	43,182	104	399
4 3+Daylighting	49,282	0	0	0	9,555	1,709	137	3,550	(520)	64,232	167	606
5 4+0.6 kW/ton Chiller	0	0	0	0	20,850	0	65	1,064	0	21,979	75	225
Cumulative Savings (relative to Case 0, negative entries indicate increased use)												
1 0+3' Overhang	0	0	0	0	25,239	5,316	362	7,890	1,060	38,807	238	503
2 1+6' Overhang	0	0	0	0	37,555	7,712	489	12,915	1,790	58,671	379	780
3 2+Reduced LPD	33,330	0	0	0	43,564	9,693	566	14,699	1,360	101,853	484	1,179
4 3+Daylighting	82,612	0	0	0	53,119	11,402	703	18,249	840	166,085	651	1,785
5 4+0.6 kW/ton Chiller	82,612	0	0	0	73,969	11,402	768	19,313	840	188,064	726	2,010

Peak Demand PRELIMINARY Detailed Results - Example Office Building 15 September 1998 (page 2 of 3)

	Ambient Lights kW	Misc Eq. kW	Annual HVAC Demands (Non-Coincident)					Total Elect kW	
			Peak Load Tons	Heating kW	Cooling kW	Fans kW	Clg Twrs kW		Pumps kW
Annual Peak Demand									
0 Base Case	54	15	67	0	71	14	2	10	162
1 0+3' Overhang	54	15	51	0	55	10	2	8	140
2 1+6' Overhang	53	15	43	0	47	9	1	7	131
3 2+Reduced LPD	42	15	38	0	43	8	1	7	116
4 3+Daylighting	42	15	32	0	38	6	1	6	88
5 4+0.6 kW/ton Chiller	42	15	32	0	25	6	1	6	75
Incremental Savings (negative entries indicate increased demand)									
1 0+3' Overhang	0	0	16	0	16	4	1	2	22
2 1+6' Overhang	1	0	7	0	8	1	0	1	9
3 2+Reduced LPD	11	0	5	0	4	1	0	0	15
4 3+Daylighting	0	0	6	0	6	2	0	1	28
5 4+0.6 kW/ton Chiller	0	0	0	0	13	0	0	0	13
Cumulative Savings (relative to Case 0, negative entries indicate increased demand)									
1 0+3' Overhang	0	0	16	0	16	4	1	2	22
2 1+6' Overhang	1	0	24	0	24	5	1	3	31
3 2+Reduced LPD	12	0	28	0	28	6	1	3	46
4 3+Daylighting	12	0	35	0	34	7	1	4	74
5 4+0.6 kW/ton Chiller	12	0	35	0	46	7	1	4	86

Annual Utility Costs PRELIMINARY Detailed Results - Example Office Building 15 September 1998 (page 3 of 3)

	Annual Utility Cost Total (\$)					Incremental First Cost (\$)	Simple Payback
	Nat Gas Total	Electric Energy	Electric Demand	Electric Total	Utility Total		
Annual Costs							
0 Base Case	\$3,558	\$30,427	\$13,578	\$44,729	\$48,287	\$0	n/a
1 0+3' Overhang	\$3,022	\$27,442	\$11,891	\$40,057	\$43,079	\$50,000	n/a
2 1+6' Overhang	\$2,625	\$25,914	\$11,054	\$37,692	\$40,317	\$50,000	n/a
3 2+Reduced LPD	\$2,854	\$22,593	\$9,621	\$32,938	\$35,792	\$12,000	n/a
4 3+Daylighting	\$3,128	\$17,652	\$7,242	\$25,618	\$28,746	\$40,000	n/a
5 4+0.6 kW/ton Chiller	\$3,128	\$15,962	\$6,415	\$23,100	\$26,228	\$8,000	n/a
Incremental Savings (negative entries indicate increased costs)							
1 0+3' Overhang	\$536	\$2,985	\$1,687	\$4,672	\$5,208	(\$50,000)	9.6
2 1+6' Overhang	\$397	\$1,528	\$837	\$2,365	\$2,762	(\$50,000)	18.1
3 2+Reduced LPD	(\$229)	\$3,321	\$1,433	\$4,754	\$4,525	(\$12,000)	2.7
4 3+Daylighting	(\$274)	\$4,941	\$2,379	\$7,320	\$7,046	(\$40,000)	5.7
5 4+0.6 kW/ton Chiller	\$0	\$1,690	\$827	\$2,518	\$2,518	(\$8,000)	3.2
Cumulative Savings (relative to Case 0, negative entries indicate increased costs)							
1 0+3' Overhang	\$536	\$2,985	\$1,687	\$4,672	\$5,208	(\$50,000)	9.6
2 1+6' Overhang	\$933	\$4,513	\$2,524	\$7,037	\$7,970	(\$100,000)	12.5
3 2+Reduced LPD	\$704	\$7,834	\$3,957	\$11,791	\$12,495	(\$112,000)	9.0
4 3+Daylighting	\$430	\$12,775	\$6,336	\$19,111	\$19,541	(\$152,000)	7.8
5 4+0.6 kW/ton Chiller	\$430	\$14,465	\$7,163	\$21,629	\$22,059	(\$160,000)	7.3

Delta Reporting Format

The example output that follows presents DOE2 results from a chiller alternative where a base case reciprocating machine (1.0 kW/ton) was replaced with a newer model (0.6 kW/ton). Two PLANT reports are presented, PS-C and BEPU.

The reports are ordered to present the base case first, followed by the alternative, followed by the delta between them. For this example, the delta is equal to the alternative minus the base case. Therefore, any savings will appear as negative quantities in the delta report.

Note that the deltas are reported for any numeric characters not embedded within a character string.

Example PS-C Delta Output

Base Case (chiller kW/ton = 1.0)

Simple Office Practice Example w Expressions for overall bldg dimensions and daylighting in all perimeter zones
 REPORT- PS-C Equipment Loads and Energy Use

DOE-B2.2NT30 9/16/1998 6:24:15 BDL RUN 1

WEATHER FILE- LOS ANGELES, CA

MON	PEAK	COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	Number of hours within each PART LOAD range										TOTAL	
		(MBTU) (KBTU/HR)	(MBTU) (KBTU/HR)	(KWH) (KW)	(MBTU) (KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	RUN
Boiler 1																	
	SUM		-196.1		489.9	LOAD2618	563	142	62	12	6	3	0	0	0	0	3406
	PEAK		-572.7		840.1	FUELL1584	1322	270	102	90	26	9	3	0	0	0	3406
	MON/DAY		12/28		12/28												
Chiller 1																	
	SUM	396.8		52120.4		LOAD1632	1419	919	490	137	19	4	0	0	0	0	4620
	PEAK	332.2		31.3		ELEC	285	1523	1223	877	532	158	20	2	0	0	4620
	MON/DAY	8/31		8/31													
Cooling Tower 1																	
	SUM	663.5		468.4		LOAD	0	0	0	0	4619	1	0	0	0	0	4620
	PEAK	447.1		1.0		ELEC	1063	604	271	51	10	0	0	0	0	0	1999
	MON/DAY	8/31		8/31													
CHW Pump																	
	SUM			9850.1		FLOW	0	0	0	0	0	0	0	0	0	0	4620
	PEAK			2.1		RPM	0	0	0	0	0	0	0	0	0	0	4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620
HW Pump																	
	SUM			2662.8		FLOW	0	0	0	0	0	0	0	0	0	0	4620
	PEAK			0.6		RPM	0	0	0	0	0	0	0	0	0	0	4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620
CW Pump																	
	SUM			13755.5		FLOW	0	0	0	0	0	0	0	0	0	0	4620
	PEAK			3.0		RPM	0	0	0	0	0	0	0	0	0	0	4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620

Example PS-C Delta Output

Alternative (chiller kW/ton = 0.6)

Simple Office Practice Example w Expressions for overall bldg dimensions and daylighting in all perimeter zones
 REPORT- PS-C Equipment Loads and Energy Use

DOE-B2.2NT30 9/16/1998 6:27:52 BDL RUN 1

WEATHER FILE- LOS ANGELES, CA

MON	PEAK	COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	Number of hours within each PART LOAD range										TOTAL	
		(MBTU)	(MBTU)	(KWH)	(MBTU)	00	10	20	30	40	50	60	70	80	90	100	RUN
		(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	10	20	30	40	50	60	70	80	90	100	+	HOURS
Boiler 1																	
	SUM		-196.1		489.9	LOAD2618	563	142	62	12	6	3	0	0	0	0	3406
	PEAK		-572.7		840.1	FUELL1584	1322	270	102	90	26	9	3	0	0	0	3406
	MON/DAY		12/28				12/28										
Chiller 1																	
	SUM	396.8		31270.5		LOAD1632	1419	919	490	137	19	4	0	0	0	0	4620
	PEAK	332.2		18.8		ELEC 285	1523	1223	877	532	158	20	2	0	0	0	4620
	MON/DAY	8/31		8/31													
Cooling Tower 1																	
	SUM	589.0		403.3		LOAD	0	0	0	0	4620	0	0	0	0	0	4620
	PEAK	403.6		0.9		ELEC1022	601	245	43	10	0	0	0	0	0	0	1921
	MON/DAY	8/31		8/31													
CHW Pump																	
	SUM			9850.1		FLOW	0	0	0	0	0	0	0	0	0	0	4620 4620
	PEAK			2.1		RPM	0	0	0	0	0	0	0	0	0	0	4620 4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620 4620
HW Pump																	
	SUM			2662.8		FLOW	0	0	0	0	0	0	0	0	0	0	4620 4620
	PEAK			0.6		RPM	0	0	0	0	0	0	0	0	0	0	4620 4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620 4620
CW Pump																	
	SUM			12691.8		FLOW	0	0	0	0	0	0	0	0	0	0	4620 4620
	PEAK			2.7		RPM	0	0	0	0	0	0	0	0	0	0	4620 4620
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	4620 4620

Example PS-C Delta Output

Delta Case (= Alternative - Base)

Simple Office Practice Example w Expressions for overall bldg dimensions
and daylighting in all perimeter zones
REPORT- PS-C Equipment Loads and Energy Use

DOE-B2.2NT30 9/16/1998 6:24:15 BDL RUN 0

WEATHER FILE- LOS ANGELES, CA

		COOL LOAD	HEAT LOAD	ELEC USE	FUEL USE	----- Number of hours within each PART LOAD range -----										TOTAL		
		(MBTU)	(MBTU)	(KWH)	(MBTU)	0	0	0	0	0	0	0	0	0	0	0	0	RUN
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	0	0	0	0	0	0	0	0	0	0	0	+	HOURS
Boiler 0																		
SUM			.0		.0	LOAD2618	0	0	0	0	0	0	0	0	0	0	0	0
PEAK			.0		.0	FUEL1584	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY			12/28		12/28													
Chiller 0																		
SUM		.0		20849.9		LOAD1632	0	0	0	0	0	0	0	0	0	0	0	0
PEAK		.0		12.5		ELEC	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY		8/31		8/31														
Cooling Tower 0																		
SUM		74.5		65.1		LOAD	0	0	0	-1	1	0	0	0	0	0	0	0
PEAK		43.5		.1		ELEC	1063	3	26	8	0	0	0	0	0	0	0	78
MON/DAY		8/31		8/31														
CHW Pump																		
SUM				.0		FLOW	0	0	0	0	0	0	0	0	0	0	0	0
PEAK				.0		RPM	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY				1/0		ELEC	0	0	0	0	0	0	0	0	0	0	0	0
HW Pump																		
SUM				.0		FLOW	0	0	0	0	0	0	0	0	0	0	0	0
PEAK				.0		RPM	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY				1/0		ELEC	0	0	0	0	0	0	0	0	0	0	0	0
CW Pump																		
SUM				1063.7		FLOW	0	0	0	0	0	0	0	0	0	0	0	0
PEAK				.3		RPM	0	0	0	0	0	0	0	0	0	0	0	0
MON/DAY				1/0		ELEC	0	0	0	0	0	0	0	0	0	0	0	0

Example BEPU Delta Output

Base Case (chiller kW/ton = 1.0)

Simple Office Practice Example w Expressions for overall bldg dimensions and daylighting in all perimeter zones
 REPORT- BEPU Building Utility Performance

DOE-B2.2NT30 9/16/1998 6:24:15 BDL RUN 1
 WEATHER FILE- LOS ANGELES, CA

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WIR	EXT USAGE	TOTAL
EMI ELECTRICITY													
KWH	84042.	0.	48526.	0.	55513.	468.	26291.	14648.	0.	0.	0.	0.	229488.
FMI NATURAL-GAS													
THERM	0.	0.	0.	4955.	0.	0.	70.	0.	0.	0.	0.	0.	5024.

TOTAL ELECTRICITY 229488. KWH 5.884 KWH /SQFT-YR GROSS-AREA 5.884 KWH /SQFT-YR NET-AREA
 TOTAL NATURAL-GAS 5024. THERM 0.129 THERM /SQFT-YR GROSS-AREA 0.129 THERM /SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTILING RANGE = 0.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

Alternative (chiller kW/ton = 0.6)

Simple Office Practice Example w Expressions for overall bldg dimensions and daylighting in all perimeter zones
 REPORT- BEPU Building Utility Performance

DOE-B2.2NT30 9/16/1998 6:27:52 BDL RUN 1
 WEATHER FILE- LOS ANGELES, CA

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WIR	EXT USAGE	TOTAL
EMI ELECTRICITY													
KWH	84042.	0.	48526.	0.	34663.	403.	25227.	14648.	0.	0.	0.	0.	207509.
FMI NATURAL-GAS													
THERM	0.	0.	0.	4955.	0.	0.	70.	0.	0.	0.	0.	0.	5024.

TOTAL ELECTRICITY 207509. KWH 5.321 KWH /SQFT-YR GROSS-AREA 5.321 KWH /SQFT-YR NET-AREA
 TOTAL NATURAL-GAS 5024. THERM 0.129 THERM /SQFT-YR GROSS-AREA 0.129 THERM /SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTILING RANGE = 0.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

Example BEPU Delta Output

Delta Case (= Base - Alternative)

Simple Office Practice Example w Expressions for overall bldg dimensions and daylighting in all perimeter zones
 REPORT- BEPU Building Utility Performance

DOE-B2.2NT30 9/16/1998 6:24:15 BDL RUN 0

WEATHER FILE- LOS ANGELES, CA

1

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WIR	EXT USAGE	TOTAL
EML ELECTRICITY KWH	0.	0.	0.	0.	20850.	65.	1064.	0.	0.	0.	0.	0.	21979.
FML NATURAL-GAS THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

TOTAL ELECTRICITY 21979. KWH .563 KWH /SQFT-YR GROSS-AREA .563 KWH /SQFT-YR NET-AREA
 TOTAL NATURAL-GAS 0. THERM .000 THERM /SQFT-YR GROSS-AREA .000 THERM /SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTILING RANGE = .0
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = .0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

Table of Contents to eQUEST/DOE-2.2 LOADS Summary Reports

left-to-right order of columns indicates top-down order of reports
printed in ".SIM" output files,
** indicates most important reports

LOADS SUMMARY REPORTS

		Bldg Level Info											
		Space Level Info											
		LS-A**	LS-B	LS-C**	LS-D**	LS-E	LS-F**	LS-G	LS-H	LS-I	LS-J	LS-K	LS-L
		Space Peak Loads	Space Peak Load Components	Bldg Peak Load Components	Building Monthly Loads	Space Monthly Load Components	Bldg Monthly Load Components	Space Daylighting Summary	Space Energy Reduction by Daylight	Bldg Energy Reduction by Daylight	Daylight Illuminance Frequency	Space Input Fuel Summary	Window Management & Solar
THERMAL LOAD	Total (Sens&Lat) Heat/Cool Space Load	P	P			T	T						
	Sensible Heat/Cool Space Load	P	P	P	P/T	T	T						
	Latent Cooling Space Load		P	P		T	T						
	Heat/Cool Space Load Components		P	P		T	T						
	Heat/Cool Peak Hour, Date, OA	■	■	■									
ELECTRIC ENERGY	Total (Lights/Plugs/Process)				P/T								
	Lights											T	
	Equipment / Plugs											T	
	Process Electric											T	
OTHER ENERGY	Process Fuel											T	
	Domestic Hot Water											T	
	Solar Gain												P/T
DAYLIGHTING	% Lighting Reduction							■					
	% Lighting Reduction Scatter Plot								■	■			
	Ave. Daylight Illuminance							■					
	Ave. Glare Index							■					
	% Hrs. Glare Too High							■					
	Frequency of Illuminance Levels										■		
OTHER	Floor Area & Volume		■	■									
	Weather File Name	■	■	■	■	■	■	■	■	■	■	■	■
	DESIGN-DAY reports provided ①	■	■	■	■	■	■	■	■	■	■	■	■

NOTES:

- T Total energy or Total load reported for these items
- P Peak demand or Peak load reported for these items
- ① Duplicate reports are provided for each LOADS report (if DESIGN-DAYs are used) where the first set of reports provides results for the design day conditions. A complete second set reports the annual simulation results.

The following is an example listing of simulation output reports from the Three Story Example Office Building (see the file "3-Story Office Bldg.SIM")
 Note that the sample listing that follows has been edited to remove duplicate reports to conserve space. The actual output report file,
 "3-Story Office Bldg.SIM", contains a full listing.

DOE-2 UNITS TABLE							
	ENGLISH	MULTIPLIED BY	GIVES	METRIC	MULTIPLIED BY	GIVES	ENGLISH
1			1.000000			1.000000	
2			1.000000			1.000000	
3	BTU		0.293000	WH		3.412969	BTU
4	BTU/HR		0.293000	WATT		3.412969	BTU/HR
5	BTU/LB-F	4183.830078	J/KG-K			0.000239	BTU/LB-F
6	BTU/HR-SQFT-F		5.674460	W/M2-K		0.176228	BTU/HR-SQFT-F
7	DEGREES		1.000000	DEGREES		1.000000	DEGREES
9	SQFT		0.092903	M2	10.763915		SQFT
10	CUFT		0.028317	M3	35.314724		CUFT
11	LB/HR		0.453592	KG/HR		2.204624	LB/HR
12	LB/CUFT	16.018459	KG/M3			0.062428	LB/CUFT
13	MPH		0.447040	M/S		2.236936	MPH
14	BTU/HR-F		0.527178	W/K		1.896893	BTU/HR-F
15	FT		0.304800	M		3.280840	FT
16	BTU/HR-FT-F		1.729600	W/M-K		0.578168	BTU/HR-FT-F
17	BTU/HR- SQFT		3.152480	WATT /M2		0.317211	BTU/HR- SQFT
18	IN		2.540000	CM		0.393701	IN
19	UNITS/IN		0.393700	UNITS/CM		2.540005	UNITS/IN
20	UNITS		1.000000	UNITS		1.000000	UNITS
21	LB		0.453592	KG		2.204624	LB
22	FRAC.OR MULT.		1.000000	FRAC.OR MULT.		1.000000	FRAC.OR MULT.
23	HOURS		1.000000	HRS		1.000000	HOURS
24	PERCENT-RH		1.000000	PERCENT-RH		1.000000	PERCENT-RH
25	CFM		1.699010	M3/H		0.588578	CFM
26	IN-WATER	25.400000	MM-WATER			0.039370	IN-WATER
27	LB/SQFT		4.882400	KG/M2		0.204817	LB/SQFT
28	KW		1.000000	KW		1.000000	KW
29	W/SQFT	10.763920	W/M2			0.092903	W/SQFT
30	THERMS	25.000000	THERMIES			0.040000	THERMS
31	KNOTS		0.514440	M/SEC		1.943861	KNOTS
32	HR-SQFT-F /BTU		0.176228	M2-K /W		5.674467	HR-SQFT-F /BTU
33	\$DOLLARS		1.000000	\$DOLLARS		1.000000	\$DOLLARS
34	MBTU/HR		0.293000	MWATT		3.412969	MBTU/HR
35	YEARS		1.000000	YEARS		1.000000	YEARS
36	\$/HR		1.000000	\$/HR		1.000000	\$/HR
37	HRS/YEARS		1.000000	HRS/YEARS		1.000000	HRS/YEARS
38	PERCENT		1.000000	PERCENT		1.000000	PERCENT
39	\$/MONTH		1.000000	\$/MONTH		1.000000	\$/MONTH
40	GALLONS/MIN/TON		1.078000	LITERS/MIN/KW		0.927644	GALLONS/MIN/TON
41	BTU/LB		0.645683	WH/KG		1.548748	BTU/LB
42	LBS/SQIN-GAGE	68.947571	MBAR-GAGE			0.014504	LBS/SQIN-GAGE
43	\$/UNIT		1.000000	\$/UNIT		1.000000	\$/UNIT
44	BTU/HR/PERSON		0.293000	W/PERSON		3.412969	BTU/HR/PERSON
45	LBS/LB		1.000000	KGS/KG		1.000000	LBS/LB
46	BTU/BTU		1.000000	KWH/KWH		1.000000	BTU/BTU
47	LBS/KW		0.453590	KG/KW		2.204634	LBS/KW
48	REV/MIN		1.000000	REV/MIN		1.000000	REV/MIN
49	KW/TON		1.000000	KW/TON		1.000000	KW/TON
50	MBTU		0.293000	MWH		3.412969	MBTU
51	GAL		3.785410	LITER		0.264172	GAL
52	GAL/MIN		3.785410	LITERS/MIN		0.264172	GAL/MIN
53	BTU/F	1897.800049	J/K			0.000527	BTU/F
54	KWH		1.000000	KWH		1.000000	KWH
55	\$/UNIT-HR		1.000000	\$/UNIT-HR		1.000000	\$/UNIT-HR
56	KW/CFM		0.588500	KW/M3/HR		1.699235	KW/CFM

57	BTU/SQFT-F	20428.400391	J/M2-K	0.000049	BTU/SQFT-F
58	HR/HR	1.000000	HR/HR	1.000000	HR/HR
59	BTU/FT-F	6226.479980	J/M-K	0.000161	BTU/FT-F
60	R	0.555556	K	1.799999	R
61	INCH MER	33.863800	MBAR	0.029530	INCH MER
62	UNITS/GAL/MIN	0.264170	UNITS/LITER/MIN	3.785441	UNITS/GAL/MIN
63	(HR-SQFT-F/BTU)2	0.031056	(M2-K /W)2	32.199585	(HR-SQFT-F/BTU)2
64	KBTU/HR	0.293000	KW	3.412969	KBTU/HR
65	KBTU	0.293000	KWH	3.412969	KBTU
66	CFM	0.471900	L/S	2.119093	CFM
67	CFM/SQFT	18.288000	M3/H-M2	0.054681	CFM/SQFT
68	1/R	1.799900	1/K	0.555586	1/R
69	1/KNOT	1.943860	SEC/M	0.514440	1/KNOT
70	FOOTCANDLES	10.763910	LUX	0.092903	FOOTCANDLES
71	FOOTLAMBERT	3.426259	CANDELA/M2	0.291864	FOOTLAMBERT
72	LUMEN / WATT	1.000000	LUMEN / WATT	1.000000	LUMEN / WATT
73	KBTU/SQFT-YR	3.152480	KWH/M2-YR	0.317211	KBTU/SQFT-YR

North Wall (M.S7....	(	115.0	15.0	22.0)	(	115.0	15.0	13.0)	(	15.0	15.0	13.0)	(	15.0	15.0	22.0)
NW Wall (M.S7.I1....	(	15.0	15.0	22.0)	(	15.0	15.0	13.0)	(	0.0	0.0	13.0)	(	0.0	0.0	22.0)
Ceiling (M.S7.I1....	(	0.0	0.0	22.0)	(	130.0	0.0	22.0)	(	115.0	15.0	22.0)	(	15.0	15.0	22.0)
East Perim Space.....	(	130.0	0.0	0.0)												
East Wall (M.E8....	(	130.0	0.0	22.0)	(	130.0	0.0	13.0)	(	130.0	100.0	13.0)	(	130.0	100.0	22.0)
East Window (M.E	(	130.0	15.6	21.1)	(	130.0	15.6	16.1)	(	130.0	84.4	16.1)	(	130.0	84.4	21.1)
NE Wall (M.S7.I1....	(	130.0	0.0	22.0)	(	130.0	0.0	13.0)	(	115.0	15.0	13.0)	(	115.0	15.0	22.0)
Floor (M.E8.I19)....	(	130.0	0.0	13.0)	(	115.0	15.0	13.0)	(	115.0	85.0	13.0)	(	130.0	100.0	13.0)
NW Wall (M.E8.I2....	(	130.0	100.0	22.0)	(	130.0	100.0	13.0)	(	115.0	85.0	13.0)	(	115.0	85.0	22.0)
West Wall (M.E8....	(	115.0	85.0	22.0)	(	115.0	85.0	13.0)	(	115.0	15.0	13.0)	(	115.0	15.0	22.0)
Ceiling (M.E8.I2....	(	130.0	0.0	22.0)	(	130.0	100.0	22.0)	(	115.0	85.0	22.0)	(	115.0	15.0	22.0)
North Perim Spac.....	(	130.0	100.0	0.0)												
North Wall (M.N9....	(	130.0	100.0	22.0)	(	130.0	100.0	13.0)	(	0.0	100.0	13.0)	(	0.0	100.0	22.0)
North Window (M.	(	109.7	100.0	21.1)	(	109.7	100.0	16.1)	(	20.3	100.0	16.1)	(	20.3	100.0	21.1)
NW Wall (M.E8.I2....	(	130.0	100.0	22.0)	(	130.0	100.0	13.0)	(	115.0	85.0	13.0)	(	115.0	85.0	22.0)
Floor (M.N9.I23)....	(	130.0	100.0	13.0)	(	115.0	85.0	13.0)	(	15.0	85.0	13.0)	(	0.0	100.0	13.0)
SW Wall (M.N9.I2....	(	0.0	100.0	22.0)	(	0.0	100.0	13.0)	(	15.0	85.0	13.0)	(	15.0	85.0	22.0)
South Wall (M.N9....	(	15.0	85.0	22.0)	(	15.0	85.0	13.0)	(	115.0	85.0	13.0)	(	115.0	85.0	22.0)
Ceiling (M.N9.I2....	(	130.0	100.0	22.0)	(	0.0	100.0	22.0)	(	15.0	85.0	22.0)	(	115.0	85.0	22.0)
West Perim Space.....	(	0.0	100.0	0.0)												
West Wall (M.W10....	(	0.0	100.0	22.0)	(	0.0	100.0	13.0)	(	0.0	0.0	13.0)	(	0.0	0.0	22.0)
West Window (M.W	(	0.0	84.4	21.1)	(	0.0	84.4	16.1)	(	0.0	15.6	16.1)	(	0.0	15.6	21.1)
NW Wall (M.S7.I1....	(	15.0	15.0	22.0)	(	15.0	15.0	13.0)	(	0.0	0.0	13.0)	(	0.0	0.0	22.0)
SW Wall (M.N9.I2....	(	0.0	100.0	22.0)	(	0.0	100.0	13.0)	(	15.0	85.0	13.0)	(	15.0	85.0	22.0)
Floor (M.W10.I27)....	(	0.0	100.0	13.0)	(	15.0	85.0	13.0)	(	15.0	15.0	13.0)	(	0.0	0.0	13.0)
East Wall (M.W10....	(	15.0	15.0	22.0)	(	15.0	15.0	13.0)	(	15.0	85.0	13.0)	(	15.0	85.0	22.0)
Ceiling (M.W10.I....	(	0.0	100.0	22.0)	(	0.0	0.0	22.0)	(	15.0	15.0	22.0)	(	15.0	85.0	22.0)
Core Space (M.C1....	(	15.0	15.0	0.0)												
North Wall (M.S7....	(	115.0	15.0	22.0)	(	115.0	15.0	13.0)	(	15.0	15.0	13.0)	(	15.0	15.0	22.0)
West Wall (M.E8....	(	115.0	85.0	22.0)	(	115.0	85.0	13.0)	(	115.0	15.0	13.0)	(	115.0	15.0	22.0)
South Wall (M.N9....	(	15.0	85.0	22.0)	(	15.0	85.0	13.0)	(	115.0	85.0	13.0)	(	115.0	85.0	22.0)
East Wall (M.W10....	(	15.0	15.0	22.0)	(	15.0	15.0	13.0)	(	15.0	85.0	13.0)	(	15.0	85.0	22.0)
Floor (M.C11.I30)....	(	15.0	15.0	13.0)	(	15.0	85.0	13.0)	(	115.0	85.0	13.0)	(	115.0	15.0	13.0)
Ceiling (M.C11.I....	(	15.0	15.0	22.0)	(	115.0	15.0	22.0)	(	115.0	85.0	22.0)	(	15.0	85.0	22.0)
Plenum (M.12) .....	(	0.0	0.0	9.0)												
South Wall (M.12....	(	0.0	0.0	26.0)	(	0.0	0.0	22.0)	(	130.0	0.0	22.0)	(	130.0	0.0	26.0)
East Wall (M.12....	(	130.0	0.0	26.0)	(	130.0	0.0	22.0)	(	130.0	100.0	22.0)	(	130.0	100.0	26.0)
North Wall (M.12....	(	130.0	100.0	26.0)	(	130.0	100.0	22.0)	(	0.0	100.0	22.0)	(	0.0	100.0	26.0)
West Wall (M.12....	(	0.0	100.0	26.0)	(	0.0	100.0	22.0)	(	0.0	0.0	22.0)	(	0.0	0.0	26.0)
Ceiling (M.S7.I1....	(	0.0	0.0	22.0)	(	130.0	0.0	22.0)	(	115.0	15.0	22.0)	(	15.0	15.0	22.0)
Ceiling (M.E8.I2....	(	130.0	0.0	22.0)	(	130.0	100.0	22.0)	(	115.0	85.0	22.0)	(	115.0	15.0	22.0)
Ceiling (M.N9.I2....	(	130.0	100.0	22.0)	(	0.0	100.0	22.0)	(	15.0	85.0	22.0)	(	115.0	85.0	22.0)
Ceiling (M.W10.I....	(	0.0	100.0	22.0)	(	0.0	0.0	22.0)	(	15.0	15.0	22.0)	(	15.0	85.0	22.0)
Ceiling (M.C11.I....	(	15.0	15.0	22.0)	(	115.0	15.0	22.0)	(	115.0	85.0	22.0)	(	15.0	85.0	22.0)
Floor (T.S13.I32)....	(	0.0	0.0	26.0)	(	15.0	15.0	26.0)	(	115.0	15.0	26.0)	(	130.0	0.0	26.0)
Floor (T.E14.I37)....	(	130.0	0.0	26.0)	(	115.0	15.0	26.0)	(	115.0	85.0	26.0)	(	130.0	100.0	26.0)
Floor (T.N15.I41)....	(	130.0	100.0	26.0)	(	115.0	85.0	26.0)	(	15.0	85.0	26.0)	(	0.0	100.0	26.0)
Floor (T.W16.I45)....	(	0.0	100.0	26.0)	(	15.0	85.0	26.0)	(	15.0	15.0	26.0)	(	0.0	0.0	26.0)
Floor (T.C17.I48)....	(	15.0	15.0	26.0)	(	15.0	85.0	26.0)	(	115.0	85.0	26.0)	(	115.0	15.0	26.0)
South Perim Spac.....	(	0.0	0.0	0.0)												
South Wall (T.S1....	(	0.0	0.0	35.0)	(	0.0	0.0	26.0)	(	130.0	0.0	26.0)	(	130.0	0.0	35.0)
South Window (T.	(	20.3	0.0	34.1)	(	20.3	0.0	29.1)	(	109.7	0.0	29.1)	(	109.7	0.0	34.1)
Floor (T.S13.I32)....	(	0.0	0.0	26.0)	(	15.0	15.0	26.0)	(	115.0	15.0	26.0)	(	130.0	0.0	26.0)
NE Wall (T.S13.I....	(	130.0	0.0	35.0)	(	130.0	0.0	26.0)	(	115.0	15.0	26.0)	(	115.0	15.0	35.0)
North Wall (T.S1....	(	115.0	15.0	35.0)	(	115.0	15.0	26.0)	(	15.0	15.0	26.0)	(	15.0	15.0	35.0)
NW Wall (T.S13.I....	(	15.0	15.0	35.0)	(	15.0	15.0	26.0)	(	0.0	0.0	26.0)	(	0.0	0.0	35.0)
Ceiling (T.S13.I....	(	0.0	0.0	35.0)	(	130.0	0.0	35.0)	(	115.0	15.0	35.0)	(	15.0	15.0	35.0)
East Perim Space.....	(	130.0	0.0	0.0)												
East Wall (T.E14....	(	130.0	0.0	35.0)	(	130.0	0.0	26.0)	(	130.0	100.0	26.0)	(	130.0	100.0	35.0)
East Window (T.E	(	130.0	15.6	34.1)	(	130.0	15.6	29.1)	(	130.0	84.4	29.1)	(	130.0	84.4	34.1)
NE Wall (T.S13.I....	(	130.0	0.0	35.0)	(	130.0	0.0	26.0)	(	115.0	15.0	26.0)	(	115.0	15.0	35.0)
Floor (T.E14.I37)....	(	130.0	0.0	26.0)	(	115.0	15.0	26.0)	(	115.0	85.0	26.0)	(	130.0	100.0	26.0)
NW Wall (T.E14.I....	(	130.0	100.0	35.0)	(	130.0	100.0	26.0)	(	115.0	85.0	26.0)	(	115.0	85.0	35.0)
West Wall (T.E14....	(	115.0	85.0	35.0)	(	115.0	85.0	26.0)	(	115.0	15.0	26.0)	(	115.0	15.0	35.0)
Ceiling (T.E14.I....	(	130.0	0.0	35.0)	(	130.0	100.0	35.0)	(	115.0	85.0	35.0)	(	115.0	15.0	35.0)
North Perim Spac.....	(	130.0	100.0	0.0)												

North Wall (T.N1....	130.0	100.0	35.0)	(	130.0	100.0	26.0)	(	0.0	100.0	26.0)	(	0.0	100.0	35.0)
North Window (T....	109.7	100.0	34.1)	(	109.7	100.0	29.1)	(	20.3	100.0	29.1)	(	20.3	100.0	34.1)
NW Wall (T.E14.I....	130.0	100.0	35.0)	(	130.0	100.0	26.0)	(	115.0	85.0	26.0)	(	115.0	85.0	35.0)
Floor (T.N15.I41....	130.0	100.0	26.0)	(	115.0	85.0	26.0)	(	15.0	85.0	26.0)	(	0.0	100.0	26.0)
SW Wall (T.N15.I....	0.0	100.0	35.0)	(	0.0	100.0	26.0)	(	15.0	85.0	26.0)	(	15.0	85.0	35.0)
South Wall (T.N1....	15.0	85.0	35.0)	(	15.0	85.0	26.0)	(	115.0	85.0	26.0)	(	115.0	85.0	35.0)
Ceiling (T.N15.I....	130.0	100.0	35.0)	(	0.0	100.0	35.0)	(	15.0	85.0	35.0)	(	115.0	85.0	35.0)
West Perim Space.....	0.0	100.0	0.0)	(((
West Wall (T.W16....	0.0	100.0	35.0)	(	0.0	100.0	26.0)	(	0.0	0.0	26.0)	(	0.0	0.0	35.0)
West Window (T.W....	0.0	84.4	34.1)	(	0.0	84.4	29.1)	(	0.0	15.6	29.1)	(	0.0	15.6	34.1)
NW Wall (T.S13.I....	15.0	15.0	35.0)	(	15.0	15.0	26.0)	(	0.0	0.0	26.0)	(	0.0	0.0	35.0)
SW Wall (T.N15.I....	0.0	100.0	35.0)	(	0.0	100.0	26.0)	(	15.0	85.0	26.0)	(	15.0	85.0	35.0)
Floor (T.W16.I45....	0.0	100.0	26.0)	(	15.0	85.0	26.0)	(	15.0	15.0	26.0)	(	0.0	0.0	26.0)
East Wall (T.W16....	15.0	15.0	35.0)	(	15.0	15.0	26.0)	(	15.0	85.0	26.0)	(	15.0	85.0	35.0)
Ceiling (T.W16.I....	0.0	100.0	35.0)	(	0.0	0.0	35.0)	(	15.0	15.0	35.0)	(	15.0	85.0	35.0)
Core Space (T.Cl.....	15.0	15.0	0.0)	(((
Skylt Roof (T.Cl....	15.0	15.0	39.1)	(	115.0	15.0	39.1)	(	115.0	85.0	39.1)	(	15.0	85.0	39.1)
Skylight (T.Cl17....	73.4	62.4	39.1)	(	73.4	58.4	39.1)	(	77.4	58.4	39.1)	(	77.4	62.4	39.1)
Skylight (T.Cl17....	94.2	62.4	39.1)	(	94.2	58.4	39.1)	(	98.2	58.4	39.1)	(	98.2	62.4	39.1)
Skylight (T.Cl17....	52.6	62.4	39.1)	(	52.6	58.4	39.1)	(	56.6	58.4	39.1)	(	56.6	62.4	39.1)
Skylight (T.Cl17....	73.4	83.2	39.1)	(	73.4	79.2	39.1)	(	77.4	79.2	39.1)	(	77.4	83.2	39.1)
Skylight (T.Cl17....	73.4	41.6	39.1)	(	73.4	37.6	39.1)	(	77.4	37.6	39.1)	(	77.4	41.6	39.1)
Skylight (T.Cl17....	52.6	83.2	39.1)	(	52.6	79.2	39.1)	(	56.6	79.2	39.1)	(	56.6	83.2	39.1)
Skylight (T.Cl17....	94.2	83.2	39.1)	(	94.2	79.2	39.1)	(	98.2	79.2	39.1)	(	98.2	83.2	39.1)
Skylight (T.Cl17....	52.6	41.6	39.1)	(	52.6	37.6	39.1)	(	56.6	37.6	39.1)	(	56.6	41.6	39.1)
Skylight (T.Cl17....	94.2	41.6	39.1)	(	94.2	37.6	39.1)	(	98.2	37.6	39.1)	(	98.2	41.6	39.1)
Skylight (T.Cl17....	31.8	62.4	39.1)	(	31.8	58.4	39.1)	(	35.8	58.4	39.1)	(	35.8	62.4	39.1)
Skylight (T.Cl17....	73.4	20.8	39.1)	(	73.4	16.8	39.1)	(	77.4	16.8	39.1)	(	77.4	20.8	39.1)
Skylight (T.Cl17....	31.8	41.6	39.1)	(	31.8	37.6	39.1)	(	35.8	37.6	39.1)	(	35.8	41.6	39.1)
Skylight (T.Cl17....	31.8	83.2	39.1)	(	31.8	79.2	39.1)	(	35.8	79.2	39.1)	(	35.8	83.2	39.1)
Skylight (T.Cl17....	52.6	20.8	39.1)	(	52.6	16.8	39.1)	(	56.6	16.8	39.1)	(	56.6	20.8	39.1)
Skylight (T.Cl17....	94.2	20.8	39.1)	(	94.2	16.8	39.1)	(	98.2	16.8	39.1)	(	98.2	20.8	39.1)
Skylight (T.Cl17....	31.8	20.8	39.1)	(	31.8	16.8	39.1)	(	35.8	16.8	39.1)	(	35.8	20.8	39.1)
North Wall (T.S1....	115.0	15.0	35.0)	(	115.0	15.0	26.0)	(	15.0	15.0	26.0)	(	15.0	15.0	35.0)
West Wall (T.E14....	115.0	85.0	35.0)	(	115.0	85.0	26.0)	(	115.0	15.0	26.0)	(	115.0	15.0	35.0)
South Wall (T.N1....	15.0	85.0	35.0)	(	15.0	85.0	26.0)	(	115.0	85.0	26.0)	(	115.0	85.0	35.0)
East Wall (T.W16....	15.0	15.0	35.0)	(	15.0	15.0	26.0)	(	15.0	85.0	26.0)	(	15.0	85.0	35.0)
Floor (T.Cl17.I48....	15.0	15.0	26.0)	(	15.0	85.0	26.0)	(	115.0	85.0	26.0)	(	115.0	15.0	26.0)
Ceiling (T.Cl17.I....	15.0	15.0	35.0)	(	115.0	15.0	35.0)	(	115.0	85.0	35.0)	(	15.0	85.0	35.0)
South Perim Plenu.....	0.0	0.0	9.0)	(((
South Wall (T.S1....	0.0	0.0	39.0)	(	0.0	0.0	35.0)	(	130.0	0.0	35.0)	(	130.0	0.0	39.0)
Roof (T.S18.E23)....	0.0	0.0	39.0)	(	130.0	0.0	39.0)	(	115.0	15.0	39.0)	(	15.0	15.0	39.0)
Ceiling (T.S13.I....	0.0	0.0	35.0)	(	130.0	0.0	35.0)	(	115.0	15.0	35.0)	(	15.0	15.0	35.0)
NE Wall (T.S18.I....	130.0	0.0	39.0)	(	130.0	0.0	35.0)	(	115.0	15.0	35.0)	(	115.0	15.0	39.0)
North Wall (T.S1....	115.0	15.0	39.0)	(	115.0	15.0	35.0)	(	15.0	15.0	35.0)	(	15.0	15.0	39.0)
NW Wall (T.S18.I....	15.0	15.0	39.0)	(	15.0	15.0	35.0)	(	0.0	0.0	35.0)	(	0.0	0.0	39.0)
East Perim Plenu.....	130.0	0.0	9.0)	(((
East Wall (T.E19....	130.0	0.0	39.0)	(	130.0	0.0	35.0)	(	130.0	100.0	35.0)	(	130.0	100.0	39.0)
Roof (T.E19.E25)....	130.0	0.0	39.0)	(	130.0	100.0	39.0)	(	115.0	85.0	39.0)	(	115.0	15.0	39.0)
Ceiling (T.E14.I....	130.0	0.0	35.0)	(	130.0	100.0	35.0)	(	115.0	85.0	35.0)	(	115.0	15.0	35.0)
NE Wall (T.S18.I....	130.0	0.0	39.0)	(	130.0	0.0	35.0)	(	115.0	15.0	35.0)	(	115.0	15.0	39.0)
NW Wall (T.E19.I....	130.0	100.0	39.0)	(	130.0	100.0	35.0)	(	115.0	85.0	35.0)	(	115.0	85.0	39.0)
West Wall (T.E19....	115.0	85.0	39.0)	(	115.0	85.0	35.0)	(	115.0	15.0	35.0)	(	115.0	15.0	39.0)
North Perim Plenu.....	130.0	100.0	9.0)	(((
North Wall (T.N2....	130.0	100.0	39.0)	(	130.0	100.0	35.0)	(	0.0	100.0	35.0)	(	0.0	100.0	39.0)
Roof (T.N20.E27)....	130.0	100.0	39.0)	(	0.0	100.0	39.0)	(	15.0	85.0	39.0)	(	115.0	85.0	39.0)
Ceiling (T.N15.I....	130.0	100.0	35.0)	(	0.0	100.0	35.0)	(	15.0	85.0	35.0)	(	115.0	85.0	35.0)
NW Wall (T.E19.I....	130.0	100.0	39.0)	(	130.0	100.0	35.0)	(	115.0	85.0	35.0)	(	115.0	85.0	39.0)
SW Wall (T.N20.I....	0.0	100.0	39.0)	(	0.0	100.0	35.0)	(	15.0	85.0	35.0)	(	15.0	85.0	39.0)
South Wall (T.N2....	15.0	85.0	39.0)	(	15.0	85.0	35.0)	(	115.0	85.0	35.0)	(	115.0	85.0	39.0)
West Perim Plenu.....	0.0	100.0	9.0)	(((
West Wall (T.W21....	0.0	100.0	39.0)	(	0.0	100.0	35.0)	(	0.0	0.0	35.0)	(	0.0	0.0	39.0)
Roof (T.W21.E29)....	0.0	100.0	39.0)	(	0.0	0.0	39.0)	(	15.0	15.0	39.0)	(	15.0	85.0	39.0)
Ceiling (T.W16.I....	0.0	100.0	35.0)	(	0.0	0.0	35.0)	(	15.0	15.0	35.0)	(	15.0	85.0	35.0)
NW Wall (T.S18.I....	15.0	15.0	39.0)	(	15.0	15.0	35.0)	(	0.0	0.0	35.0)	(	0.0	0.0	39.0)
SW Wall (T.N20.I....	0.0	100.0	39.0)	(	0.0	100.0	35.0)	(	15.0	85.0	35.0)	(	15.0	85.0	39.0)

East Wall (T.W21.... (	15.0	15.0	39.0)	(	15.0	15.0	35.0)	(	15.0	85.0	35.0)	(	15.0	85.0	39.0)
Core Plenum (T.C..... (	15.0	15.0	9.0)												
Roof (T.C22.E30).... (	15.0	15.0	39.0)	(	115.0	15.0	39.0)	(	115.0	85.0	39.0)	(	15.0	85.0	39.0)
Ceiling (T.C17.I.... (	15.0	15.0	35.0)	(	115.0	15.0	35.0)	(	115.0	85.0	35.0)	(	15.0	85.0	35.0)
North Wall (T.S1.... (	115.0	15.0	39.0)	(	115.0	15.0	35.0)	(	15.0	15.0	35.0)	(	15.0	15.0	39.0)
West Wall (T.E19.... (	115.0	85.0	39.0)	(	115.0	85.0	35.0)	(	115.0	15.0	35.0)	(	115.0	15.0	39.0)
South Wall (T.N2.... (	15.0	85.0	39.0)	(	15.0	85.0	35.0)	(	115.0	85.0	35.0)	(	115.0	85.0	39.0)
East Wall (T.W21.... (	15.0	15.0	39.0)	(	15.0	15.0	35.0)	(	15.0	85.0	35.0)	(	15.0	85.0	39.0)

One LV-L report for each combination of window and reference point in each daylight space

3-Story Office Bldg

4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-L** DAYLIGHT FACTOR SUMMARY FOR South Perim Spac

SPACE--South Perim Spac				WINDOW--South Window (G.				REF PT NO.--1			
AREA(SQFT)	1725.0	SC 1.00	GTC 2	VIS-TRANS	0.47	X(FT)	89.8	Y(FT)	7.5	Z(FT)	2.5
AV REFL	0.44	H(FT)	5.0	W(FT)	39.9	ZONE-FRACTION	1.00				
MAX-GLARE	20.0	AZIM(DEG)	180.0	TILT(DEG)	90.0	LTG-SET-POINT(FC)	50.0				
VW-AZ(DEG)	270.0	DAY-X-DIV	21	DAY-Y-DIV	8	LTG-CTRL-TYPE	CONTINUOUS				
		X(FT)	69.8	Y(FT)	0.0	Z(FT)	3.1				
		WIN-SHADE-TYPE	NO-SHADE								

SUN	WIN	SUN	SUN	EXT	EXT	DIR	REFL	DIR	REFL	DAY	DAY	WIN	WIN	BACKG	BACKG		
POS	DAY	SHD	ALT	AZIM	-SKY	-SUN	-SKY	-SUN	-SUN	ILL	ILL	LUM	LUM	LUM	LUM	GLARE	
NO.	TYP	IND	(DEG)	(DEG)	(FC)	(FC)	(FC)	(FC)	(FC)	-SKY	-SUN	-SKY	-SUN	-SKY	-SUN	INDEX	
1	1	1	10.	290.	1093.6	301.1	73.3	10.6	0.0	1.0	0.0768	0.0033	0.9767	0.0000	0.0043	0.0015	17.7
1	1	2	10.	290.	1093.6	301.1	0.0	14.1	0.0	0.7	0.0129	0.0024	0.0000	0.0000	0.0057	0.0011	0.0
1	2	1	10.	290.	366.9	0.0	15.4	2.6	0.0	0.0	0.0491	0.0000	0.3815	0.0000	0.0032	0.0000	8.4
1	2	2	10.	290.	366.9	0.0	0.0	3.2	0.0	0.0	0.0086	0.0000	0.0000	0.0000	0.0038	0.0000	0.0
2	1	1	10.	235.	1093.6	301.1	169.6	19.1	240.2	13.8	0.1726	0.8435	2.5406	99.0000	0.0078	0.0204	27.7
2	1	2	10.	235.	1093.6	301.1	0.0	27.8	0.0	21.5	0.0254	0.0715	0.0000	0.0000	0.0113	0.0318	0.0
3	1	1	10.	180.	1093.6	301.1	268.9	29.5	301.1	31.1	0.2728	1.1031	1.8285	0.0000	0.0120	0.0459	19.7
3	1	2	10.	180.	1093.6	301.1	0.0	44.7	0.0	49.6	0.0408	0.1649	0.0000	0.0000	0.0182	0.0733	0.0
4	1	1	10.	125.	1093.6	301.1	169.6	19.1	240.2	13.8	0.1726	0.8435	2.5406	0.0000	0.0078	0.0204	20.8
4	1	2	10.	125.	1093.6	301.1	0.0	27.8	0.0	21.5	0.0254	0.0715	0.0000	0.0000	0.0113	0.0318	0.0
5	1	1	10.	70.	1093.6	301.1	73.3	10.6	0.0	1.0	0.0768	0.0033	0.9767	0.0000	0.0043	0.0015	17.7
5	1	2	10.	70.	1093.6	301.1	0.0	14.1	0.0	0.7	0.0129	0.0024	0.0000	0.0000	0.0057	0.0011	0.0
6	1	1	33.	290.	1606.4	3226.7	88.1	13.7	0.0	10.6	0.0634	0.0033	0.7617	0.0000	0.0038	0.0015	18.2
6	1	2	33.	290.	1606.4	3226.7	0.0	17.6	0.0	7.6	0.0109	0.0024	0.0000	0.0000	0.0049	0.0011	0.0
7	1	1	33.	235.	1606.4	3226.7	176.8	21.6	0.0	26.6	0.1235	0.0082	1.3821	0.0000	0.0060	0.0037	20.1
7	1	2	33.	235.	1606.4	3226.7	0.0	30.3	0.0	33.6	0.0189	0.0104	0.0000	0.0000	0.0084	0.0046	0.0
8	1	1	33.	180.	1606.4	3226.7	297.0	32.0	0.0	71.0	0.2048	0.0220	1.3481	0.0000	0.0089	0.0098	19.5
8	1	2	33.	180.	1606.4	3226.7	0.0	47.3	0.0	105.8	0.0295	0.0328	0.0000	0.0000	0.0131	0.0146	0.0
9	1	1	33.	125.	1606.4	3226.7	176.8	21.6	0.0	26.6	0.1235	0.0082	1.3821	0.0000	0.0060	0.0037	20.1
9	1	2	33.	125.	1606.4	3226.7	0.0	30.3	0.0	33.6	0.0189	0.0104	0.0000	0.0000	0.0084	0.0046	0.0
10	1	1	33.	70.	1606.4	3226.7	88.1	13.7	0.0	10.6	0.0634	0.0033	0.7617	0.0000	0.0038	0.0015	18.2
10	1	2	33.	70.	1606.4	3226.7	0.0	17.6	0.0	7.6	0.0109	0.0024	0.0000	0.0000	0.0049	0.0011	0.0
11	1	1	56.	290.	1910.6	5999.5	92.0	15.1	0.0	19.7	0.0560	0.0033	0.6046	0.0000	0.0035	0.0015	18.0
11	1	2	56.	290.	1910.6	5999.5	0.0	18.9	0.0	14.2	0.0099	0.0024	0.0000	0.0000	0.0044	0.0011	0.0
12	1	1	56.	235.	1910.6	5999.5	136.5	19.2	0.0	20.4	0.0815	0.0034	0.7899	0.0000	0.0045	0.0015	18.9
12	1	2	56.	235.	1910.6	5999.5	0.0	25.6	0.0	15.4	0.0134	0.0026	0.0000	0.0000	0.0060	0.0011	0.0
13	1	1	56.	180.	1910.6	5999.5	178.5	23.4	0.0	30.6	0.1057	0.0051	0.8384	0.0000	0.0055	0.0023	19.0
13	1	2	56.	180.	1910.6	5999.5	0.0	32.4	0.0	32.0	0.0170	0.0053	0.0000	0.0000	0.0075	0.0024	0.0
14	1	1	56.	125.	1910.6	5999.5	136.5	19.2	0.0	20.4	0.0815	0.0034	0.7899	0.0000	0.0045	0.0015	18.9
14	1	2	56.	125.	1910.6	5999.5	0.0	25.6	0.0	15.4	0.0134	0.0026	0.0000	0.0000	0.0060	0.0011	0.0
15	1	1	56.	70.	1910.6	5999.5	92.0	15.1	0.0	19.7	0.0560	0.0033	0.6046	0.0000	0.0035	0.0015	18.0
15	1	2	56.	70.	1910.6	5999.5	0.0	18.9	0.0	14.2	0.0099	0.0024	0.0000	0.0000	0.0044	0.0011	0.0
16	1	1	80.	290.	2556.7	7346.2	118.6	19.8	0.0	24.1	0.0541	0.0033	0.5310	0.0000	0.0034	0.0015	18.5
16	1	2	80.	290.	2556.7	7346.2	0.0	24.6	0.0	17.4	0.0096	0.0024	0.0000	0.0000	0.0043	0.0011	0.0
17	1	1	80.	235.	2556.7	7346.2	133.1	21.2	0.0	24.1	0.0603	0.0033	0.5705	0.0000	0.0037	0.0015	18.8
17	1	2	80.	235.	2556.7	7346.2	0.0	26.8	0.0	17.4	0.0105	0.0024	0.0000	0.0000	0.0047	0.0011	0.0
18	1	1	80.	180.	2556.7	7346.2	141.7	22.0	0.0	24.1	0.0640	0.0033	0.5882	0.0000	0.0038	0.0015	18.9
18	1	2	80.	180.	2556.7	7346.2	0.0	28.2	0.0	17.4	0.0110	0.0024	0.0000	0.0000	0.0049	0.0011	0.0
19	1	1	80.	125.	2556.7	7346.2	133.1	21.2	0.0	24.1	0.0603	0.0033	0.5705	0.0000	0.0037	0.0015	18.8
19	1	2	80.	125.	2556.7	7346.2	0.0	26.8	0.0	17.4	0.0105	0.0024	0.0000	0.0000	0.0047	0.0011	0.0
20	1	1	80.	70.	2556.7	7346.2	118.6	19.8	0.0	24.1	0.0541	0.0033	0.5310	0.0000	0.0034	0.0015	18.5
20	1	2	80.	70.	2556.7	7346.2	0.0	24.6	0.0	17.4	0.0096	0.0024	0.0000	0.0000	0.0043	0.0011	0.0

NOTE -- Above values assume VISIBLE TRANSMITTANCE = 1.0 for WINDOW glass and SHADING DEVICE.
Actual transmittances are used in the hourly calculation.

One LV-L report for each combination of window and reference point in each daylight space

3-Story Office Bldg

4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-L** DAYLIGHT FACTOR SUMMARY FOR East Perim Space

 SPACE--East Perim Space WINDOW--East Window (G.E REF PT NO.--1
 AREA(SQFT) 1275.0 SC 1.00 GTC 2 VIS-TRANS 0.47 X(FT) 122.5 Y(FT) 50.0 Z(FT) 2.5
 AV REFL 0.44 H(FT) 5.0 W(FT) 68.7 ZONE-FRACTION 1.00
 MAX-GLARE 20.0 AZIM(DEG) 90.0 TILT(DEG) 90.0 LTG-SET-POINT(FC) 50.0
 VW-AZ(DEG) 180.0 DAY-X-DIV 36 DAY-Y-DIV 8 LTG-CTRL-TYPE CONTINUOUS
 X(FT) 15.6 Y(FT) 0.0 Z(FT) 3.1
 WIN-SHADE-TYPE NO-SHADE

SUN	WIN	SUN	SUN	EXT	EXT	DIR	REFL	DIR	REFL	DAY	DAY	WIN	WIN	BACKG	BACKG		
POS	DAY	SHD	ALT	AZIM	-SKY	-SUN	-SKY	-SUN	-SKY	-SUN	ILL	ILL	LUM	LUM	LUM	LUM	
NO.	TYP	IND	(DEG)	(DEG)	(FC)	(FC)	(FC)	(FC)	(FC)	-SKY	-SUN	-SKY	-SUN	-SKY	-SUN	GLARE	
																INDEX	
1	1	1	10.	290.	1093.6	301.1	75.1	24.7	0.0	2.2	0.0913	0.0074	0.6429	0.0000	0.0100	0.0033	17.1
1	1	2	10.	290.	1093.6	301.1	0.0	32.5	0.0	1.6	0.0297	0.0054	0.0000	0.0000	0.0132	0.0024	0.0
1	2	1	10.	290.	366.9	0.0	15.4	6.0	0.0	0.0	0.0584	0.0000	0.2879	0.0000	0.0073	0.0000	7.8
1	2	2	10.	290.	366.9	0.0	0.0	7.2	0.0	0.0	0.0197	0.0000	0.0000	0.0000	0.0087	0.0000	0.0
2	1	1	10.	235.	1093.6	301.1	73.5	24.3	0.0	2.2	0.0895	0.0074	0.6825	0.0000	0.0099	0.0033	17.3
2	1	2	10.	235.	1093.6	301.1	0.0	31.9	0.0	1.6	0.0292	0.0054	0.0000	0.0000	0.0130	0.0024	0.0
3	1	1	10.	180.	1093.6	301.1	87.7	27.1	0.0	2.2	0.1050	0.0074	1.4036	0.0000	0.0110	0.0033	19.9
3	1	2	10.	180.	1093.6	301.1	0.0	36.4	0.0	1.6	0.0333	0.0054	0.0000	0.0000	0.0148	0.0024	0.0
4	1	1	10.	125.	1093.6	301.1	227.3	56.5	290.7	55.8	0.2595	1.1508	1.5853	99.0000	0.0230	0.0824	28.5
4	1	2	10.	125.	1093.6	301.1	0.0	83.7	0.0	87.7	0.0765	0.2913	0.0000	0.0000	0.0340	0.1295	0.0
5	1	1	10.	70.	1093.6	301.1	255.6	64.3	299.8	66.7	0.2925	1.2169	1.3735	0.0000	0.0261	0.0984	18.8
5	1	2	10.	70.	1093.6	301.1	0.0	96.1	0.0	105.2	0.0879	0.3494	0.0000	0.0000	0.0390	0.1552	0.0
6	1	1	33.	290.	1606.4	3226.7	83.4	30.5	0.0	24.0	0.0709	0.0074	0.5097	0.0000	0.0084	0.0033	17.6
6	1	2	33.	290.	1606.4	3226.7	0.0	38.4	0.0	17.4	0.0239	0.0054	0.0000	0.0000	0.0106	0.0024	0.0
7	1	1	33.	235.	1606.4	3226.7	83.1	30.3	0.0	24.0	0.0706	0.0074	0.5388	0.0000	0.0084	0.0033	17.8
7	1	2	33.	235.	1606.4	3226.7	0.0	38.2	0.0	17.4	0.0238	0.0054	0.0000	0.0000	0.0106	0.0024	0.0
8	1	1	33.	180.	1606.4	3226.7	105.1	34.7	0.0	24.0	0.0870	0.0074	0.8811	0.0000	0.0096	0.0033	19.5
8	1	2	33.	180.	1606.4	3226.7	0.0	45.2	0.0	17.4	0.0281	0.0054	0.0000	0.0000	0.0125	0.0024	0.0
9	1	1	33.	125.	1606.4	3226.7	238.8	62.0	0.0	116.2	0.1872	0.0360	1.0477	0.0000	0.0172	0.0160	18.8
9	1	2	33.	125.	1606.4	3226.7	0.0	89.2	0.0	165.6	0.0555	0.0513	0.0000	0.0000	0.0247	0.0228	0.0
10	1	1	33.	70.	1606.4	3226.7	276.6	69.8	0.0	147.6	0.2156	0.0457	0.9903	0.0000	0.0193	0.0203	18.1
10	1	2	33.	70.	1606.4	3226.7	0.0	101.7	0.0	216.1	0.0633	0.0670	0.0000	0.0000	0.0281	0.0298	0.0
11	1	1	56.	290.	1910.6	5999.5	83.3	32.7	0.0	44.6	0.0607	0.0074	0.4387	0.0000	0.0076	0.0033	17.2
11	1	2	56.	290.	1910.6	5999.5	0.0	40.0	0.0	32.4	0.0209	0.0054	0.0000	0.0000	0.0093	0.0024	0.0
12	1	1	56.	235.	1910.6	5999.5	84.4	32.9	0.0	44.6	0.0614	0.0074	0.4544	0.0000	0.0076	0.0033	17.3
12	1	2	56.	235.	1910.6	5999.5	0.0	40.3	0.0	32.4	0.0211	0.0054	0.0000	0.0000	0.0094	0.0024	0.0
13	1	1	56.	180.	1910.6	5999.5	104.1	36.9	0.0	44.6	0.0738	0.0074	0.5754	0.0000	0.0086	0.0033	18.2
13	1	2	56.	180.	1910.6	5999.5	0.0	46.8	0.0	32.4	0.0245	0.0054	0.0000	0.0000	0.0109	0.0024	0.0
14	1	1	56.	125.	1910.6	5999.5	159.4	49.1	0.0	44.6	0.1091	0.0074	0.6438	0.0000	0.0114	0.0033	18.5
14	1	2	56.	125.	1910.6	5999.5	0.0	66.4	0.0	32.4	0.0347	0.0054	0.0000	0.0000	0.0154	0.0024	0.0
15	1	1	56.	70.	1910.6	5999.5	172.3	52.1	0.0	60.6	0.1174	0.0101	0.6402	0.0000	0.0121	0.0045	18.2
15	1	2	56.	70.	1910.6	5999.5	0.0	71.2	0.0	58.1	0.0373	0.0097	0.0000	0.0000	0.0166	0.0043	0.0
16	1	1	80.	290.	2556.7	7346.2	112.5	43.8	0.0	54.6	0.0611	0.0074	0.4232	0.0000	0.0076	0.0033	17.9
16	1	2	80.	290.	2556.7	7346.2	0.0	53.7	0.0	39.6	0.0210	0.0054	0.0000	0.0000	0.0093	0.0024	0.0
17	1	1	80.	235.	2556.7	7346.2	113.8	44.1	0.0	54.6	0.0617	0.0074	0.4271	0.0000	0.0077	0.0033	17.9
17	1	2	80.	235.	2556.7	7346.2	0.0	54.1	0.0	39.6	0.0212	0.0054	0.0000	0.0000	0.0094	0.0024	0.0
18	1	1	80.	180.	2556.7	7346.2	124.4	46.4	0.0	54.6	0.0668	0.0074	0.4518	0.0000	0.0081	0.0033	18.1
18	1	2	80.	180.	2556.7	7346.2	0.0	57.8	0.0	39.6	0.0226	0.0054	0.0000	0.0000	0.0100	0.0024	0.0
19	1	1	80.	125.	2556.7	7346.2	138.8	49.5	0.0	54.6	0.0737	0.0074	0.4719	0.0000	0.0086	0.0033	18.2
19	1	2	80.	125.	2556.7	7346.2	0.0	62.9	0.0	39.6	0.0246	0.0054	0.0000	0.0000	0.0109	0.0024	0.0
20	1	1	80.	70.	2556.7	7346.2	141.3	50.1	0.0	54.6	0.0749	0.0074	0.4743	0.0000	0.0087	0.0033	18.2
20	1	2	80.	70.	2556.7	7346.2	0.0	63.7	0.0	39.6	0.0249	0.0054	0.0000	0.0000	0.0111	0.0024	0.0

NOTE -- Above values assume VISIBLE TRANSMITTANCE = 1.0
 for WINDOW glass and SHADING DEVICE.
 Actual transmittances are used in the hourly calculation.

One LV-A report only

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-A** General Project and Building Input

WEATHER FILE- CZ06RV2 WYEC2

PERIOD OF STUDY

STARTING DATE ENDING DATE NUMBER OF DAYS

21 DEC 2001	21 DEC 2001	1
21 JUN 2001	21 JUN 2001	1
1 JAN 2001	31 DEC 2001	365

For California Climate Zone weather files, eQUEST uses design days by default (properties are based on Title24 data).

SITE CHARACTERISTIC DATA

STATION NAME	LATITUDE (DEG)	LONGITUDE (DEG)	ALTITUDE (FT)	TIME ZONE	BUILDING AZIMUTH (DEG)
CZ06RV2 WYEC2	33.9	118.2	97.	8 PST	360.0

Weather file name shown here on most DOE-2 reports.

Building North vs True North (+/- 360 deg, positive for clockwise rotation).

One LV-B report only

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-B Summary of Spaces Occurring in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF SPACES 22 EXTERIOR 20 INTERIOR 2

SPACE	FLOOR	SPACE*FLOOR MULTIPLIER	SPACE TYPE	AZIM	LIGHTS (WATT / SQFT)	PEOPLE	EQUIP (WATT / SQFT)	INFILTRATION METHOD	ACH	AREA (SQFT)	VOLUME (CUFT)
South Perim Spac	Ground Floor	1.0	EXT	0.0	1.31	10.7	1.17	AIR-CHANGE	0.17	1725.0	15525.0
East Perim Space	Ground Floor	1.0	EXT	-90.0	1.31	7.9	1.17	AIR-CHANGE	0.18	1275.0	11475.0
North Perim Spac	Ground Floor	1.0	EXT	180.0	1.31	10.7	1.17	AIR-CHANGE	0.17	1725.0	15525.0
West Perim Space	Ground Floor	1.0	EXT	90.0	1.31	7.9	1.17	AIR-CHANGE	0.18	1275.0	11475.0
Core Space (G.C5)	Ground Floor	1.0	INT	0.0	1.21	58.5	0.93	AIR-CHANGE	0.01	7000.0	63000.0
Plenum (G.6)	Ground Floor	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.08	13000.0	52000.0
South Perim Spac	Mid Floor	1.0	EXT	0.0	1.41	10.3	1.49	AIR-CHANGE	0.17	1725.0	15525.0
East Perim Space	Mid Floor	1.0	EXT	-90.0	1.41	7.6	1.49	AIR-CHANGE	0.18	1275.0	11475.0
North Perim Spac	Mid Floor	1.0	EXT	180.0	1.41	10.3	1.49	AIR-CHANGE	0.17	1725.0	15525.0
West Perim Space	Mid Floor	1.0	EXT	90.0	1.41	7.6	1.49	AIR-CHANGE	0.18	1275.0	11475.0
Core Space (M.C1)	Mid Floor	1.0	INT	0.0	1.35	70.8	1.14	AIR-CHANGE	0.01	7000.0	63000.0
Plenum (M.12)	Mid Floor	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.08	13000.0	52000.0
South Perim Spac	Top Floor	1.0	EXT	0.0	1.41	10.3	1.49	AIR-CHANGE	0.17	1725.0	15525.0
East Perim Space	Top Floor	1.0	EXT	-90.0	1.41	7.6	1.49	AIR-CHANGE	0.18	1275.0	11475.0
North Perim Spac	Top Floor	1.0	EXT	180.0	1.41	10.3	1.49	AIR-CHANGE	0.17	1725.0	15525.0
West Perim Space	Top Floor	1.0	EXT	90.0	1.41	7.6	1.49	AIR-CHANGE	0.18	1275.0	11475.0
Core Space (T.C1)	Top Floor	1.0	EXT	0.0	1.35	70.8	1.14	AIR-CHANGE	0.01	7000.0	63000.0
South Perim Plenu	Top Floor	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.17	1725.0	6900.0
East Perim Plenu	Top Floor	1.0	EXT	-90.0	0.00	0.0	0.00	AIR-CHANGE	0.18	1275.0	5100.0
North Perim Plenu	Top Floor	1.0	EXT	180.0	0.00	0.0	0.00	AIR-CHANGE	0.17	1725.0	6900.0
West Perim Plenu	Top Floor	1.0	EXT	90.0	0.00	0.0	0.00	AIR-CHANGE	0.18	1275.0	5100.0
Core Plenum (T.C	Top Floor	1.0	EXT	0.0	0.00	0.0	0.00	AIR-CHANGE	0.02	7000.0	28000.0
BUILDING TOTALS						309.1				78000.0	507000.0

Reports only the first 16 characters of the Space name

Includes task lighting

Does not include space process electric

One LV-C report per space in the project (3 pages for each LV-B report, only one LV-C report included here for example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-C Details of Space

South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE South Perim Space (G.S1) IN FLOOR Ground Floor

LOCATION OF ORIGIN IN BUILDING COORDINATES

XB (FT)	YB (FT)	ZB (FT)	SPACE AZIMUTH (DEG)	SPACE*FLOOR MULTIPLIER	HEIGHT (FT)	AREA (SQFT)	VOLUME (CUFT)
0.00	0.00	0.00	0.00	1.0	9.00	1725.00	15525.00

TOTAL NUMBER OF SURFACES	NUMBER OF EXTERIOR SURFACES	NUMBER OF INTERIOR SURFACES	NUMBER OF UNDERGROUND SURFACES	DAYLIGHTING	SUNSPACE
6	1	4	1	YES	NO

NUMBER OF SUBSURFACES

TOTAL	EXTERIOR WINDOWS	DOORS	INTERIOR WINDOWS
3	3	0	0

FLOOR WEIGHT (LB/SQFT)	CALCULATION TEMPERATURE (F)
0.0	70.0

INFILTRATION

SCHEDULE	INFILTRATION CALCULATION METHOD	FLOW RATE (CFM/SQFT)	AIR CHANGES PER HOUR	HEIGHT TO NEUTRAL ZONE (FT)
Infil Sched	AIR-CHANGE	0.03	0.00	0.0

PEOPLE

SCHEDULE	NUMBER	AREA PER PERSON (SQFT)	PEOPLE ACTIVITY (BTU/HR)	PEOPLE SENSIBLE (BTU/HR)	PEOPLE LATENT (BTU/HR)
ask Sched	10.7	161.3	450.0	249.4	212.1

LV-C report page 2 of 3 (only one LV-C report included here for example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-C Details of Space

South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

LIGHTING

SCHEDULE	LIGHTING TYPE	LOAD (WATTS/SQFT)	LOAD (KW)	FRACTION OF LOAD TO SPACE
s Sched	SUS-FLUOR	1.24	2.14	1.00

TASK LIGHTING

SCHEDULE	LOAD (WATTS/SQFT)	LOAD (KW)
ask Sched	0.07	0.

ELECTRICAL EQUIPMENT

SCHEDULE	ELEC LOAD (WATTS/SQFT)	ELEC LOAD (KW)	FRACTION OF LOAD TO SPACE	
			SENSIBLE	LATENT
Sched	1.17	2.01	1.00	0.00

INTERIOR SURFACES (U-VALUE INCLUDES BOTH AIR FILMS)

SURFACE	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	ADJACENT SPACE		SURFACE-TYPE	
NE Wall (G.S1.I1	190.92	Int Wall Constr	2.000	East Perim Space	QUICK	AIR	
North Wall (G.S1	900.00	Int Wall Constr	2.000	Core Space (G.C5	QUICK	AIR	
NW Wall (G.S1.I3	190.92	Int Wall Constr	2.000	West Perim Space	QUICK	AIR	
Ceiling (G.S1.I4	1725.00	Ceiling Construc	0.361	Plenum (G.6)	QUICK	STANDARD	

EXTERIOR SURFACES (U-VALUE EXCLUDES OUTSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	WIDTH (FT)	HEIGHT (FT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	SURFACE TYPE	
South Wall (G.S1	1.0	1170.00	130.00	9.00	Ext Wall Constr	0.080	DELAYED	

SURFACE	AZIMUTH (DEG)	TILT (DEG)	LOCATION OF ORIGIN IN BUILDING COORDINATES			LOCATION OF ORIGIN IN SPACE COORDINATES		
			XB (FT)	YB (FT)	ZB (FT)	X (FT)	Y (FT)	Z (FT)
South Wall (G.S1	-180.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00

LV-C report page 3 of 3 (only one LV-C report included here for example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-C Details of Space

South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

UNDERGROUND SURFACES (U-VALUE INCLUDES INSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)
Floor (G.S1.U1)	1.0	1725.00	UFCons (G.S1.U1)	0.06

EXTERIOR WINDOWS (U-VALUE INCLUDES OUTSIDE AIR FILM)

WINDOW	MULTIPLIER	GLASS AREA (SQFT)	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	SET- BACK (FT)	GLASS WIDTH (FT)	GLASS HEIGHT (FT)	CENTER-OF- GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
South Window (G.	1.0	199.49	0.57	2	2	0.00	39.87	5.00	0.536	0.473
South Window (G.	1.0	199.49	0.57	2	2	0.00	39.87	5.00	0.536	0.473
South Door (G.S1	1.0	35.75	0.95	1	1	0.00	5.50	6.50	0.983	0.881

WINDOW	LOCATED IN SURFACE	LOCATION OF ORIGIN IN BUILDING COORDINATES			LOCATION OF ORIGIN IN SURFACE COORDINATES	
		XB (FT)	YB (FT)	ZB (FT)	X (FT)	Y (FT)
South Window (G.	South Wall (G.S1	20.28	0.00	3.11	20.28	3.11
South Window (G.	South Wall (G.S1	69.85	0.00	3.11	69.85	3.11
South Door (G.S1	South Wall (G.S1	62.25	0.00	0.25	62.25	0.25

one LV-D report per project — always at least 2 pages long, first page(s) list each exterior surface, last page is summary

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-D** Details of Exterior Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF EXTERIOR SURFACES 30 RECTANGULAR 0 OTHER 30
 (U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	- - - W I N D O W S - - -		- - - - W A L L - - - -		- W A L L + W I N D O W S -		AZIMUTH
		U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	
North Wall (G.N3	North Perim Spac	0.530	460.51	0.077	709.49	0.256	1170.00	NORTH
North Wall (G.6.	Plenum (G.6)	0.000	0.00	0.077	520.00	0.077	520.00	NORTH
North Wall (M.N9	North Perim Spac	0.502	468.00	0.077	702.00	0.247	1170.00	NORTH
North Wall (M.12	Plenum (M.12)	0.000	0.00	0.077	520.00	0.077	520.00	NORTH
North Wall (T.N1	North Perim Spac	0.502	468.00	0.077	702.00	0.247	1170.00	NORTH
North Wall (T.N2	North Perim Plen	0.000	0.00	0.077	520.00	0.077	520.00	NORTH
East Wall (M.12.	Plenum (M.12)	0.000	0.00	0.077	400.00	0.077	400.00	EAST
East Wall (G.E2.	East Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	EAST
East Wall (T.E14	East Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	EAST
East Wall (M.E8.	East Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	EAST
East Wall (T.E19	East Perim Plenu	0.000	0.00	0.077	400.00	0.077	400.00	EAST
East Wall (G.6.E	Plenum (G.6)	0.000	0.00	0.077	400.00	0.077	400.00	EAST
South Wall (T.S1	South Perim Spac	0.502	468.00	0.077	702.00	0.247	1170.00	SOUTH
South Wall (G.6.	Plenum (G.6)	0.000	0.00	0.077	520.00	0.077	520.00	SOUTH
South Wall (M.12	Plenum (M.12)	0.000	0.00	0.077	520.00	0.077	520.00	SOUTH
South Wall (T.S1	South Perim Plen	0.000	0.00	0.077	520.00	0.077	520.00	SOUTH
South Wall (M.S7	South Perim Spac	0.502	468.00	0.077	702.00	0.247	1170.00	SOUTH
South Wall (G.S1	South Perim Spac	0.530	460.51	0.077	709.49	0.256	1170.00	SOUTH
West Wall (M.W10	West Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	WEST
West Wall (T.W16	West Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	WEST
West Wall (M.12.	Plenum (M.12)	0.000	0.00	0.077	400.00	0.077	400.00	WEST
West Wall (G.6.E	Plenum (G.6)	0.000	0.00	0.077	400.00	0.077	400.00	WEST
West Wall (G.W4.	West Perim Space	0.502	360.00	0.077	540.00	0.247	900.00	WEST
West Wall (T.W21	West Perim Plenu	0.000	0.00	0.077	400.00	0.077	400.00	WEST

LV-D (continued) — one LV-D report per project — page 2 of 3 in this example

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-D** Details of Exterior Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

Roof (T.E19.E25)	East Perim Plenu	0.000	0.00	0.042	1275.00	0.042	1275.00	ROOF
Roof (T.S18.E23)	South Perim Plen	0.000	0.00	0.042	1725.00	0.042	1725.00	ROOF
Roof (T.N20.E27)	North Perim Plen	0.000	0.00	0.042	1725.00	0.042	1725.00	ROOF
Skylt Roof (T.C1	Core Space (T.C1	0.842	256.00	0.001	6744.00	0.032	7000.00	ROOF
Roof (T.W21.E29)	West Perim Plenu	0.000	0.00	0.042	1275.00	0.042	1275.00	ROOF
Roof (T.C22.E30)	Core Plenum (T.C	0.000	0.00	0.042	7000.00	0.042	7000.00	ROOF
Floor (G.S1.U1)	South Perim Spac	0.000	0.00	0.058	1725.00	0.058	1725.00	UNDERGRND
Floor (G.E2.U2)	East Perim Space	0.000	0.00	0.061	1275.00	0.061	1275.00	UNDERGRND
Floor (G.N3.U3)	North Perim Spac	0.000	0.00	0.058	1725.00	0.058	1725.00	UNDERGRND
Floor (G.W4.U4)	West Perim Space	0.000	0.00	0.061	1275.00	0.061	1275.00	UNDERGRND
Floor (G.C5.U5)	Core Space (G.C5	0.000	0.00	0.010	7000.00	0.010	7000.00	UNDERGRND

LV-D (continued) — one LV-D report per project (page 3 of 3 in this example) — this last page is a whole-building summary

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-D Details of Exterior Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

	AVERAGE U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL AREA (SQFT)
NORTH	0.511	0.077	0.197	1396.51	3673.49	5070.00
EAST	0.502	0.077	0.195	1080.00	2820.00	3900.00
SOUTH	0.511	0.077	0.197	1396.51	3673.49	5070.00
WEST	0.502	0.077	0.195	1080.00	2820.00	3900.00
ROOF	0.842	0.028	0.038	256.00	19744.00	20000.00
ALL WALLS	0.507	0.077	0.196	4953.02	12986.98	17940.00
WALLS+ROOFS	0.524	0.048	0.113	5209.02	32730.98	37940.00
UNDERGRND	0.000	0.033	0.033	0.00	13000.00	13000.00
BUILDING	0.524	0.043	0.092	5209.02	45730.98	50940.00

Frame effects
can make these
differ

NORTH
EAST
SOUTH
WEST

Overall
wall (only)
u-value

Overall
wall+win
u-value

Will report up to
8 orientations
(relative to true
north, after any
bldg rotation)

U-Values reported here include exterior film
resistance effect (assumes 7.5 mph wind)

Includes window
frame area (if any)

Includes door area
(if any)

Areas are reported
after the effect of
multipliers, if any.

**** Important Report ****

One LV-E report only

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-E** Details of Underground Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF UNDERGROUND SURFACES 5

SURFACE NAME	MULTIPLIER	AREA (SQFT)	CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)
Floor (G.S1.U1)	1.0	1725.00	UFCons (G.S1.U1)	0.058
Floor (G.E2.U2)	1.0	1275.00	UFCons (G.E2.U2)	0.061
Floor (G.N3.U3)	1.0	1725.00	UFCons (G.N3.U3)	0.058
Floor (G.W4.U4)	1.0	1275.00	UFCons (G.W4.U4)	0.061
Floor (G.C5.U5)	1.0	7000.00	UFCons (G.C5.U5)	0.010

One LV-F report only (may require more than one page to list all interior surfaces)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-F** Details of Interior Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF INTERIOR SURFACES 57
(U-VALUE INCLUDES BOTH AIR FILMS)

SURFACE NAME	AREA (SQFT)	CONSTRUCTION NAME	SURFACE TYPE	U-VALUE (BTU/HR-SQFT-F)	ADJACENT SPACES	
					SPACE-1	SPACE-2
NE Wall (G.S1.I1)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	East Perim Space
North Wall (G.S1)	900.00	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	Core Space (G.C5
NW Wall (G.S1.I3)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	West Perim Space
Ceiling (G.S1.I4)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	South Perim Spac	Plenum (G.6)
NW Wall (G.E2.I5)	190.92	Int Wall Constr	QUICK AIR	2.000	East Perim Space	North Perim Spac
West Wall (G.E2.	630.00	Int Wall Constr	QUICK AIR	2.000	East Perim Space	Core Space (G.C5
Ceiling (G.E2.I7)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	East Perim Space	Plenum (G.6)
SW Wall (G.N3.I8)	190.92	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	West Perim Space
South Wall (G.N3)	900.00	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	Core Space (G.C5
Ceiling (G.N3.I1)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	North Perim Spac	Plenum (G.6)
East Wall (G.W4.	630.00	Int Wall Constr	QUICK AIR	2.000	West Perim Space	Core Space (G.C5
Ceiling (G.W4.I1)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	West Perim Space	Plenum (G.6)
Ceiling (G.C5.I1)	7000.00	Ceiling Constr	QUICK STANDARD	0.361	Core Space (G.C5	Plenum (G.6)
Floor (M.S7.I14)	1725.00	Int Flr Constr	DELAYED STANDARD	0.567	South Perim Spac	Plenum (G.6)
NE Wall (M.S7.I1)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	East Perim Space
North Wall (M.S7)	900.00	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	Core Space (M.C1
NW Wall (M.S7.I1)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	West Perim Space
Ceiling (M.S7.I1)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	South Perim Spac	Plenum (M.12)
Floor (M.E8.I19)	1275.00	Int Flr Constr	DELAYED STANDARD	0.567	East Perim Space	Plenum (G.6)
NW Wall (M.E8.I2)	190.92	Int Wall Constr	QUICK AIR	2.000	East Perim Space	North Perim Spac
West Wall (M.E8.	630.00	Int Wall Constr	QUICK AIR	2.000	East Perim Space	Core Space (M.C1
Ceiling (M.E8.I2)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	East Perim Space	Plenum (M.12)
Floor (M.N9.I23)	1725.00	Int Flr Constr	DELAYED STANDARD	0.567	North Perim Spac	Plenum (G.6)
SW Wall (M.N9.I2)	190.92	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	West Perim Space
South Wall (M.N9)	900.00	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	Core Space (M.C1
Ceiling (M.N9.I2)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	North Perim Spac	Plenum (M.12)
Floor (M.W10.I27)	1275.00	Int Flr Constr	DELAYED STANDARD	0.567	West Perim Space	Plenum (G.6)
East Wall (M.W10)	630.00	Int Wall Constr	QUICK AIR	2.000	West Perim Space	Core Space (M.C1
Ceiling (M.W10.I)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	West Perim Space	Plenum (M.12)
Floor (M.C11.I30)	7000.00	Int Flr Constr	DELAYED STANDARD	0.567	Core Space (M.C1	Plenum (G.6)
Ceiling (M.C11.I)	7000.00	Ceiling Constr	QUICK STANDARD	0.361	Core Space (M.C1	Plenum (M.12)
Floor (T.S13.I32)	1725.00	Int Flr Constr	DELAYED STANDARD	0.567	South Perim Spac	Plenum (M.12)
NE Wall (T.S13.I)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	East Perim Space
North Wall (T.S1)	900.00	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	Core Space (T.C1
NW Wall (T.S13.I)	190.92	Int Wall Constr	QUICK AIR	2.000	South Perim Spac	West Perim Space
Ceiling (T.S13.I)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	South Perim Spac	South Perim Plen
Floor (T.E14.I37)	1275.00	Int Flr Constr	DELAYED STANDARD	0.567	East Perim Space	Plenum (M.12)
NW Wall (T.E14.I)	190.92	Int Wall Constr	QUICK AIR	2.000	East Perim Space	North Perim Spac
West Wall (T.E14)	630.00	Int Wall Constr	QUICK AIR	2.000	East Perim Space	Core Space (T.C1
Ceiling (T.E14.I)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	East Perim Space	East Perim Plenu
Floor (T.N15.I41)	1725.00	Int Flr Constr	DELAYED STANDARD	0.567	North Perim Spac	Plenum (M.12)
SW Wall (T.N15.I)	190.92	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	West Perim Space
South Wall (T.N1)	900.00	Int Wall Constr	QUICK AIR	2.000	North Perim Spac	Core Space (T.C1
Ceiling (T.N15.I)	1725.00	Ceiling Constr	QUICK STANDARD	0.361	North Perim Spac	North Perim Plen
Floor (T.W16.I45)	1275.00	Int Flr Constr	DELAYED STANDARD	0.567	West Perim Space	Plenum (M.12)
East Wall (T.W16)	630.00	Int Wall Constr	QUICK AIR	2.000	West Perim Space	Core Space (T.C1
Ceiling (T.W16.I)	1275.00	Ceiling Constr	QUICK STANDARD	0.361	West Perim Space	West Perim Plenu
Floor (T.C17.I48)	7000.00	Int Flr Constr	DELAYED STANDARD	0.567	Core Space (T.C1	Plenum (M.12)
Ceiling (T.C17.I)	7000.00	Ceiling Constr	QUICK STANDARD	0.361	Core Space (T.C1	Core Plenum (T.C

One LV-F report — continued (page 2 of 2 — larger projects, i.e., more interior surfaces will require more pages)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-F** Details of Interior Surfaces in the Project

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

SURFACE NAME	AREA (SQFT)	CONSTRUCTION NAME	SURFACE TYPE	U-VALUE (BTU/HR-SQFT-F)	ADJACENT SPACES	
					SPACE-1	SPACE-2
NE Wall (T.S18.I	84.85	Int Wall Constr	QUICK AIR	2.000	South Perim Plen	East Perim Plenu
North Wall (T.S1	400.00	Int Wall Constr	QUICK AIR	2.000	South Perim Plen	Core Plenum (T.C
NW Wall (T.S18.I	84.85	Int Wall Constr	QUICK AIR	2.000	South Perim Plen	West Perim Plenu
NW Wall (T.E19.I	84.85	Int Wall Constr	QUICK AIR	2.000	East Perim Plenu	North Perim Plen
West Wall (T.E19	280.00	Int Wall Constr	QUICK AIR	2.000	East Perim Plenu	Core Plenum (T.C
SW Wall (T.N20.I	84.85	Int Wall Constr	QUICK AIR	2.000	North Perim Plen	West Perim Plenu
South Wall (T.N2	400.00	Int Wall Constr	QUICK AIR	2.000	North Perim Plen	Core Plenum (T.C
East Wall (T.W21	280.00	Int Wall Constr	QUICK AIR	2.000	West Perim Plenu	Core Plenum (T.C

One LV-G report only (will likely require more than one page to list all schedules, only one page shown here for example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LV-G Details of Schedules Occurring in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF SCHEDULES 36 (NON DIMENSIONLESS SCHEDULES ARE GIVEN IN ENGLISH UNITS)

SCHEDULE Typ Core Occ/Tas

THROUGH 31 12

FOR DAYS SUN HOL

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FOR DAYS MON TUE WED THU FRI HDD CDD

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FOR DAYS SAT

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SCHEDULE Typ Core Lights

THROUGH 31 12

FOR DAYS SUN HOL

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FOR DAYS MON TUE WED THU FRI HDD CDD

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.47	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.47	0.03	0.03	0.03	0.03	0.03	0.03

One LV-H report only (may require more than one page to list all windows in the project)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-H** Details of Windows Occurring in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF WINDOWS 32 RECTANGULAR 0 OTHER 32

RECTANGULAR WINDOWS (U-VALUES INCLUDE OUTSIDE AIR FILM)

WINDOW NAME	MULTIPLIER	GLASS AREA (SQFT)	GLASS HEIGHT (FT)	GLASS WIDTH (FT)	LOCATION OF ORIGIN IN SURFACE COORDINATES		FRAME AREA (SQFT)	FRAME U-VALUE (BTU/HR-SQFT-F)
					X (FT)	Y (FT)		
South Window (G.	1.0	199.49	5.00	39.87	20.28	3.11	9.77	0.384
South Window (G.	1.0	199.49	5.00	39.87	69.85	3.11	9.77	0.384
South Door (G.S1	1.0	35.75	6.50	5.50	62.25	0.25	6.25	0.384
East Window (G.E	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
North Window (G.	1.0	199.49	5.00	39.87	20.28	3.11	9.77	0.384
North Window (G.	1.0	199.49	5.00	39.87	69.85	3.11	9.77	0.384
North Door (G.N3	1.0	35.75	6.50	5.50	62.25	0.25	6.25	0.384
West Window (G.W	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
South Window (M.	1.0	447.49	5.00	89.44	20.28	3.11	20.51	0.384
East Window (M.E	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
North Window (M.	1.0	447.49	5.00	89.44	20.28	3.11	20.51	0.384
West Window (M.W	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
South Window (T.	1.0	447.49	5.00	89.44	20.28	3.11	20.51	0.384
East Window (T.E	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
North Window (T.	1.0	447.49	5.00	89.44	20.28	3.11	20.51	0.384
West Window (T.W	1.0	343.97	5.00	68.75	15.63	3.11	16.03	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	58.40	43.40	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	79.19	43.40	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	37.61	43.40	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	58.40	64.19	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	58.40	22.61	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	37.61	64.19	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	79.19	64.19	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	37.61	22.61	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	79.19	22.61	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	16.82	43.40	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	58.40	1.82	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	16.82	22.61	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	16.82	64.19	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	37.61	1.82	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	79.19	1.82	0.00	0.384
Skylight (T.C17.	1.0	16.00	4.00	4.00	16.82	1.82	0.00	0.384

WINDOW NAME	SETBACK (FT)	X-DIVISIONS	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	INFILTRATION FLOW COEFF	CENTER-OF-GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
South Window (G.	0.00	10	0.57	2	2	0.0	0.536	0.473
South Window (G.	0.00	10	0.57	2	2	0.0	0.536	0.473
South Door (G.S1	0.00	10	0.95	1	1	0.0	0.983	0.881
East Window (G.E	0.00	10	0.57	2	2	0.0	0.536	0.473
North Window (G.	0.00	10	0.57	2	2	0.0	0.536	0.473
North Window (G.	0.00	10	0.57	2	2	0.0	0.536	0.473
North Door (G.N3	0.00	10	0.95	1	1	0.0	0.983	0.881
West Window (G.W	0.00	10	0.57	2	2	0.0	0.536	0.473
South Window (M.	0.00	10	0.57	2	2	0.0	0.536	0.473
East Window (M.E	0.00	10	0.57	2	2	0.0	0.536	0.473

One LV-I report only (may require more than one page to list all constructions in the project)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-I** Details of Constructions Occurring in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF CONSTRUCTIONS 11 DELAYED 8 QUICK 3

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
Ext Wall Construc	0.080	0.60	3	DELAYED	9
Roof Constructio	0.043	0.60	3	DELAYED	7
Ceiling Construc	0.361	0.70	3	QUICK	0
Int Wall Construc	2.000	0.70	3	QUICK	0
Int Flr Construc	0.567	0.70	3	DELAYED	4
UFCons (G.S1.U1)	0.058	0.70	3	DELAYED	49
UFCons (G.E2.U2)	0.061	0.70	3	DELAYED	48
UFCons (G.N3.U3)	0.058	0.70	3	DELAYED	49
UFCons (G.W4.U4)	0.061	0.70	3	DELAYED	48
UFCons (G.C5.U5)	0.010	0.70	3	DELAYED	52
Skylt Roof Const	0.001	0.00	1	QUICK	0

One LV-I report only (may require more than one page to list all Building-Shades in large projects)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LV-J** Details of Building Shades in the Project

WEATHER FILE- CZ06RV2 WYEC2

NUMBER OF BUILDING SHADES 0 RECTANGULAR 0 OTHER 0

Up to two LS-A reports per project — one reports the Design Day run (if any), the other reports the weather file run

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-A** Space Peak Loads Summary

This tag indicates this report documents only Design Day results (not weather file results).

DESIGN DAY

WEATHER FILE- CZ06RV2 WYEC2

The weather file is reported, even though this is a Design Day report (may cause confusion)

SPACE NAME	MULTIPLIER SPACE	FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB
South Perim Space (G.S1)	1.	1.	19.514	JUN 21 3 PM	91.F	67.F	-10.104	DEC 21 7 AM	37.F	31.F
East Perim Space (G.E2)	1.	1.	27.845	JUN 21 9 AM	81.F	64.F	-7.639	DEC 21 7 AM	37.F	31.F
North Perim Space (G.N3)	1.	1.	19.176	JUN 21 5 PM	91.F	67.F	-10.511	DEC 21 7 AM	37.F	31.F
West Perim Space (G.W4)	1.	1.	26.713	JUN 21 6 PM	90.F	67.F	-7.894	DEC 21 7 AM	37.F	31.F
Core Space (G.C5)	1.	1.	52.562	JUN 21 5 PM	91.F	67.F	0.000		0.F	0.F
Plenum (G.6)	1.	1.	5.920	JUN 21 7 PM	89.F	66.F	-7.259	DEC 21 7 AM	37.F	31.F
South Perim Space (M.S7)	1.	1.	23.488	JUN 21 5 PM	91.F	67.F	-9.293	DEC 21 7 AM	37.F	31.F
East Perim Space (M.E8)	1.	1.	31.165	JUN 21 9 AM	81.F	64.F	-7.193	DEC 21 7 AM	37.F	31.F
North Perim Space (M.N9)	1.	1.	23.273	JUN 21 5 PM	91.F	67.F	-9.630	DEC 21 7 AM	37.F	31.F
West Perim Space (M.W10)	1.	1.	30.948	JUN 21 7 PM	89.F	66.F	-7.449	DEC 21 7 AM	37.F	31.F
Core Space (M.C11)	1.	1.	62.429	JUN 21 5 PM	91.F	67.F	0.000		0.F	0.F
Plenum (M.12)	1.	1.	5.920	JUN 21 7 PM	89.F	66.F	-7.259	DEC 21 7 AM	37.F	31.F
South Perim Space (T.S13)	1.	1.	23.488	JUN 21 5 PM	91.F	67.F	-9.293	DEC 21 7 AM	37.F	31.F
East Perim Space (T.E14)	1.	1.	31.165	JUN 21 9 AM	81.F	64.F	-7.193	DEC 21 7 AM	37.F	31.F
North Perim Space (T.N15)	1.	1.	23.273	JUN 21 5 PM	91.F	67.F	-9.630	DEC 21 7 AM	37.F	31.F
West Perim Space (T.W16)	1.	1.	30.948	JUN 21 7 PM	89.F	66.F	-7.449	DEC 21 7 AM	37.F	31.F
Core Space (T.C17)	1.	1.	71.379	JUN 21 5 PM	91.F	67.F	-1.143	DEC 21 7 AM	37.F	31.F
South Perim Plenum (T.S18)	1.	1.	6.718	JUN 21 3 PM	91.F	67.F	-4.555	DEC 21 6 AM	37.F	31.F
East Perim Plenum (T.E19)	1.	1.	4.993	JUN 21 2 PM	90.F	66.F	-3.427	DEC 21 6 AM	37.F	31.F
North Perim Plenum (T.N20)	1.	1.	6.279	JUN 21 3 PM	91.F	67.F	-4.552	DEC 21 6 AM	37.F	31.F
West Perim Plenum (T.W21)	1.	1.	5.257	JUN 21 5 PM	91.F	67.F	-3.424	DEC 21 6 AM	37.F	31.F
Core Plenum (T.C22)	1.	1.	17.881	JUN 21 4 PM	91.F	67.F	-10.749	DEC 21 7 AM	37.F	31.F

Sensible only

SUM

550.335

-145.645

BUILDING PEAK

455.220

JUN 21 5 PM 91.F 67.F

-104.421

DEC 21 7 AM 37.F 31.F

Reported BEFORE the application of Space or Floor Multipliers

Reported AFTER the application of Space or Floor Multipliers

Sum of Space Loads (non-coincident peak load)

Coincident whole-building peak Space Load ("block "load)

Important Notes:

Reports LS-B through LS-L for the Design Day simulation results have been excluded from this listing to save space. The LS-B through LS-L reports that follow document weather file simulation results.

A "load" reported in the LOADS ("LS-") reports is defined as the amount of heat that must be added or removed from the space air per hour to maintain a constant air temperature equal to the TEMPERATURE keyword value in SPACE. These loads are modified in the SYSTEMS program ("SS-" reports) to account for time-varying air temperatures. This EXCLUDES outside air ventilation load, duct loss/gain, fan motor heat, and light heat from the top of trauuffers, all of which are accounted for in the SYSTEMS part of the calculation (see the "SS-" reports).

**** Important Report ****

Up to two LS-A reports per project — one reports the Design Day run (if any), the other reports the weather file run

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-A** Space Peak Loads Summary

No "Design Day" tag indicates
this report documents weather
file results.

WEATHER FILE- CZ06RV2 WYEC2

SPACE NAME	MULTIPLIER SPACE	FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY- BULB	WET- BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY- BULB	WET- BULB
South Perim Space (G.S1)	1.	1.	44.220	DEC 19 1 PM	79.F	53.F	-8.118	JAN 1 7 AM	39.F	31.F
East Perim Space (G.E2)	1.	1.	27.192	APR 5 9 AM	65.F	49.F	-7.370	JAN 1 7 AM	39.F	31.F
North Perim Space (G.N3)	1.	1.	17.045	AUG 31 3 PM	87.F	63.F	-10.318	JAN 1 7 AM	39.F	31.F
West Perim Space (G.W4)	1.	1.	25.759	APR 4 5 PM	81.F	52.F	-7.303	JAN 1 7 AM	39.F	31.F
Core Space (G.C5)	1.	1.	52.674	AUG 31 5 PM	83.F	63.F	-0.985	JAN 1 7 AM	39.F	31.F
Plenum (G.6)	1.	1.	3.819	AUG 31 5 PM	83.F	63.F	-6.732	DEC 29 7 AM	39.F	31.F
South Perim Space (M.S7)	1.	1.	51.943	DEC 19 2 PM	79.F	53.F	-9.663	JAN 1 7 AM	39.F	31.F
East Perim Space (M.E8)	1.	1.	31.809	APR 5 10 AM	74.F	53.F	-7.617	JAN 1 7 AM	39.F	31.F
North Perim Space (M.N9)	1.	1.	21.042	AUG 31 3 PM	87.F	63.F	-9.913	JAN 1 7 AM	39.F	31.F
West Perim Space (M.W10)	1.	1.	30.697	MAR 15 5 PM	65.F	58.F	-7.515	JAN 1 7 AM	39.F	31.F
Core Space (M.C11)	1.	1.	62.357	AUG 31 5 PM	83.F	63.F	-0.230	JAN 1 7 AM	39.F	31.F
Plenum (M.12)	1.	1.	3.819	AUG 31 5 PM	83.F	63.F	-6.732	DEC 29 7 AM	39.F	31.F
South Perim Space (T.S13)	1.	1.	51.943	DEC 19 2 PM	79.F	53.F	-9.663	JAN 1 7 AM	39.F	31.F
East Perim Space (T.E14)	1.	1.	31.809	APR 5 10 AM	74.F	53.F	-7.617	JAN 1 7 AM	39.F	31.F
North Perim Space (T.N15)	1.	1.	21.042	AUG 31 3 PM	87.F	63.F	-9.913	JAN 1 7 AM	39.F	31.F
West Perim Space (T.W16)	1.	1.	30.697	MAR 15 5 PM	65.F	58.F	-7.515	JAN 1 7 AM	39.F	31.F
Core Space (T.C17)	1.	1.	71.398	JUL 10 5 PM	85.F	67.F	-6.882	JAN 1 7 AM	39.F	31.F
South Perim Plenum (T.S18)	1.	1.	6.487	MAR 6 2 PM	75.F	53.F	-5.478	DEC 29 6 AM	39.F	31.F
East Perim Plenum (T.E19)	1.	1.	4.618	JUL 29 12 NOON	83.F	71.F	-4.112	DEC 29 6 AM	39.F	31.F
North Perim Plenum (T.N20)	1.	1.	5.224	SEP 8 3 PM	84.F	72.F	-5.481	DEC 29 6 AM	39.F	31.F
West Perim Plenum (T.W21)	1.	1.	4.085	SEP 8 3 PM	84.F	72.F	-4.110	DEC 29 6 AM	39.F	31.F
Core Plenum (T.C22)	1.	1.	13.991	JUN 20 3 PM	82.F	72.F	-13.250	DEC 29 6 AM	39.F	31.F
SUM			613.670				-156.514			
BUILDING PEAK			447.772	DEC 19 3 PM	77.F	53.F	-110.620	JAN 1 7 AM	39.F	31.F

Important Note:

Compare the peak space cooling loads reported on this report (results from the weather file) with the previous LS-A report (for Design Day results). Note that the south spaces peak at times other than during the summer. In this example, this is due to lower solar angles (increased solar heat gain) in non-summer months. If Design Days are specified and DOE-2 is "asked" to size HVAC equipment, it will rely on the Design Day weather data to do so, hence, in this case, the air flow for the south spaces will be undersized.

**** Important Report ****

One LS-B report per space — only six are shown here (one each for the ground floor zones (others have been omitted for brevity))

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

SPACE South Perim Space (G.S1)
 SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level,
 are reported **BEFORE** the application of Space
 and Floor Multipliers, if any.

MULTIPLIER	1.0	FLOOR MULTIPLIER	1.0
FLOOR AREA	1725 SQFT	M2	160
VOLUME	15525 CUFT	M3	440

TIME	COOLING LOAD		HEATING LOAD	
	DEC 19	1PM	JAN 1	7AM
DRY-BULB TEMP	79 F	26 C	39 F	4 C
WET-BULB TEMP	53 F	12 C	31 F	-1 C
TOT HORIZONTAL SOLAR RAD	162 BTU/H.SQFT	510 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	0.0 KTS	0.0 M/S	2.6 KTS	1.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	0		1	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	2.677	0.785	0.000	0.000	-1.555	-0.455
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS+FRM COND	13.948	4.087	0.000	0.000	-6.240	-1.828
WINDOW GLASS SOLAR	20.571	6.027	0.000	0.000	2.176	0.638
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-0.877	-0.257	0.000	0.000	-1.036	-0.303
OCCUPANTS TO SPACE	1.880	0.551	2.042	0.598	0.000	0.000
LIGHT TO SPACE	0.862	0.253	0.000	0.000	0.000	0.000
EQUIPMENT TO SPACE	4.946	1.449	0.000	0.000	0.000	0.000
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.212	0.062	0.000	0.000	-1.464	-0.429
TOTAL	44.220	12.956	2.042	0.598	-8.117	-2.378
TOTAL / AREA	0.026	0.081	0.001	0.004	-0.005	-0.015
TOTAL LOAD	46.262 KBTU/H	13.555 KW			-8.117 KBTU/H	-2.378 KW
TOTAL LOAD / AREA	26.82 BTU/H.SQFT	84.581 W/M2			4.706 BTU/H.SQFT	14.841 W/M2

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* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ---- LOADS
* 2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
* IN CONSIDERATION
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
*
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Outside ventilation air is accounted for in the SYSTEMS part of the program, i.e., in "SS-" reports)

One LS-B report per space — only five are shown here (page 2 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

SPACE East Perim Space (G.E2)
 SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level,
 are reported **BEFORE** the application of Space
 and Floor Multipliers, if any.

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0
 FLOOR AREA 1275 SQFT 118 M2
 VOLUME 11475 CUFT 325 M3

TIME	COOLING LOAD		HEATING LOAD	
	=====		=====	
	APR 5 9AM		JAN 1 7AM	
DRY-BULB TEMP	65 F	18 C	39 F	4 C
WET-BULB TEMP	49 F	9 C	31 F	-1 C
TOT HORIZONTAL SOLAR RAD	108 BTU/H.SQFT	340 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	2.0 KTS	1.0 M/S	2.6 KTS	1.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	0		1	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
	-----		-----		-----	
WALL CONDUCTION	0.364	0.107	0.000	0.000	-1.229	-0.360
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS+FRM COND	8.547	2.504	0.000	0.000	-4.819	-1.412
WINDOW GLASS SOLAR	14.097	4.130	0.000	0.000	0.599	0.176
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-0.841	-0.246	0.000	0.000	-0.796	-0.233
OCCUPANTS TO SPACE	1.271	0.372	1.509	0.442	0.000	0.000
LIGHT TO SPACE	0.583	0.171	0.000	0.000	0.000	0.000
EQUIPMENT TO SPACE	3.397	0.995	0.000	0.000	0.000	0.000
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	-0.226	-0.066	0.000	0.000	-1.126	-0.330
	-----	-----	-----	-----	-----	-----
TOTAL	27.192	7.967	1.509	0.442	-7.370	-2.159
TOTAL / AREA	0.021	0.067	0.001	0.004	-0.006	-0.018
TOTAL LOAD	28.702 KBTU/H		8.410 KW		-7.370 KBTU/H	-2.159 KW
TOTAL LOAD / AREA	22.51 BTU/H.SQFT		70.996 W/M2		5.781 BTU/H.SQFT	18.231 W/M2

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* ---- LOADS
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* IN CONSIDERATION
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
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One LS-B report per space — only five are shown here (page 3 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

SPACE North Perim Space (G.N3)

SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level,
 are reported BEFORE the application of Space
 and Floor Multipliers, if any.

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0
 FLOOR AREA 1725 SQFT 160 M2
 VOLUME 15525 CUFT 440 M3

TIME	COOLING LOAD		HEATING LOAD	
	AUG 31	3PM	JAN 1	7AM
DRY-BULB TEMP	87 F	31 C	39 F	4 C
WET-BULB TEMP	63 F	17 C	31 F	-1 C
TOT HORIZONTAL SOLAR RAD	257 BTU/H.SQFT	810 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	8.5 KTS	4.4 M/S	2.6 KTS	1.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	1		1	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	0.888	0.260	0.000	0.000	-1.646	-0.482
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS+FRM COND	4.674	1.370	0.000	0.000	-6.517	-1.909
WINDOW GLASS SOLAR	3.782	1.108	0.000	0.000	0.344	0.101
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-0.480	-0.141	0.000	0.000	-1.036	-0.303
OCCUPANTS TO SPACE	1.915	0.561	2.042	0.598	0.000	0.000
LIGHT TO SPACE	0.841	0.246	0.000	0.000	0.000	0.000
EQUIPMENT TO SPACE	5.028	1.473	0.000	0.000	0.000	0.000
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.396	0.116	0.000	0.000	-1.464	-0.429
TOTAL	17.045	4.994	2.042	0.598	-10.318	-3.023
TOTAL / AREA	0.010	0.031	0.001	0.004	-0.006	-0.019
TOTAL LOAD	19.087 KBTU/H		5.593 KW		-10.318 KBTU/H	-3.023 KW
TOTAL LOAD / AREA	11.07 BTU/H.SQFT		34.898 W/M2		5.981 BTU/H.SQFT	18.864 W/M2

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* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ---- LOADS
* 2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
* IN CONSIDERATION
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
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One LS-B report per space — only five are shown here (page 4 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

SPACE West Perim Space (G.W4)

SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level,
 are reported BEFORE the application of Space
 and Floor Multipliers, if any.

MULTIPLIER	1.0	FLOOR MULTIPLIER	1.0
FLOOR AREA	1275 SQFT	M2	
VOLUME	11475 CUFT	325 M3	

TIME	COOLING LOAD		HEATING LOAD	
	APR 4	5PM	JAN 1	7AM
DRY-BULB TEMP	81 F	27 C	39 F	4 C
WET-BULB TEMP	52 F	11 C	31 F	-1 C
TOT HORIZONTAL SOLAR RAD	168 BTU/H.SQFT	529 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	13.1 KTS	6.7 M/S	2.6 KTS	1.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	1		1	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	1.192	0.349	0.000	0.000	-1.224	-0.359
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS+FRM COND	7.115	2.085	0.000	0.000	-4.782	-1.401
WINDOW GLASS SOLAR	11.966	3.506	0.000	0.000	0.624	0.183
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-0.841	-0.246	0.000	0.000	-0.796	-0.233
OCCUPANTS TO SPACE	1.433	0.420	1.509	0.442	0.000	0.000
LIGHT TO SPACE	0.647	0.190	0.000	0.000	0.000	0.000
EQUIPMENT TO SPACE	3.751	1.099	0.000	0.000	0.000	0.000
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.496	0.145	0.000	0.000	-1.126	-0.330
TOTAL	25.759	7.547	1.509	0.442	-7.303	-2.140
TOTAL / AREA	0.020	0.064	0.001	0.004	-0.006	-0.018
TOTAL LOAD	27.269 KBTU/H	7.990 KW			-7.303 KBTU/H	-2.140 KW
TOTAL LOAD / AREA	21.39 BTU/H.SQFT	67.451 W/M2			5.728 BTU/H.SQFT	18.066 W/M2

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* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ---- LOADS
* 2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
* IN CONSIDERATION
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
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One LS-B report per space — only five are shown here (page 5 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components Core Space (G.C5)

WEATHER FILE- CZ06RV2 WYEC2

SPACE Core Space (G.C5)
 SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level, are reported BEFORE the application of Space and Floor Multipliers, if any.

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0
 FLOOR AREA 7000 SQFT 650 M2
 VOLUME 63000 CUFT 1784 M3

TIME	COOLING LOAD				HEATING LOAD			
	AUG 31		5PM		JAN 1		7AM	
DRY-BULB TEMP	83 F		28 C		39 F		4 C	
WET-BULB TEMP	63 F		17 C		31 F		-1 C	
TOT HORIZONTAL SOLAR RAD	162 BTU/H.SQFT		510 W/M2		0 BTU/H.SQFT		0 W/M2	
WINDSPEED AT SPACE	7.2 KTS		3.7 M/S		2.6 KTS		1.3 M/S	
CLOUD AMOUNT 0(CLEAR)-10	2				1			

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS+FRM COND	0.000	0.000	0.000	0.000	0.000	0.000
WINDOW GLASS SOLAR	0.000	0.000	0.000	0.000	0.000	0.000
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-0.349	-0.102	0.000	0.000	-0.754	-0.221
OCCUPANTS TO SPACE	11.854	3.473	10.949	3.208	0.000	0.000
LIGHT TO SPACE	22.657	6.638	0.000	0.000	0.000	0.000
EQUIPMENT TO SPACE	18.394	5.390	0.000	0.000	0.000	0.000
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.119	0.035	0.000	0.000	-0.230	-0.068
TOTAL	52.674	15.433	10.949	3.208	-0.985	-0.289
TOTAL / AREA	0.008	0.024	0.002	0.005	0.000	0.000
TOTAL LOAD	63.623 KBTU/H		18.641 KW		-0.985 KBTU/H	-0.289 KW
TOTAL LOAD / AREA	9.09 BTU/H.SQFT		28.665 W/M2		0.141 BTU/H.SQFT	0.444 W/M2

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* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ---- LOADS
* 2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
* IN CONSIDERATION
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
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One LS-B report per space — only five are shown here (page 6 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-B** Space Peak Load Components Plenum (G.6)

WEATHER FILE- CZ06RV2 WYEC2

SPACE Plenum (G.6)

SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 70 F / 21 C

Important Note:
 Loads reported here, i.e., at the space level,
 are reported **BEFORE** the application of Space
 and Floor Multipliers, if any.

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0
 FLOOR AREA 13000 SQFT 1208 M2
 VOLUME 52000 CUFT 1473 M3

TIME	COOLING LOAD				HEATING LOAD			
	=====				=====			
	AUG 31		5PM		DEC 29		7AM	
DRY-BULB TEMP	83 F		28 C		39 F		4 C	
WET-BULB TEMP	63 F		17 C		31 F		-1 C	
TOT HORIZONTAL SOLAR RAD	162 BTU/H.SQFT		510 W/M2		0 BTU/H.SQFT		0 W/M2	
WINDSPEED AT SPACE	7.8 KTS		4.0 M/S		3.5 KTS		1.8 M/S	
CLOUD AMOUNT 0(CLEAR)-10	2				1			

	SENSIBLE		LATENT		SENSIBLE			
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)		
	-----	-----	-----	-----	-----	-----		
WALL CONDUCTION	3.344	0.980	0.000	0.000	-4.431	-1.298		
ROOF CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000		
WINDOW GLASS+FRM COND	0.000	0.000	0.000	0.000	0.000	0.000		
WINDOW GLASS SOLAR	0.000	0.000	0.000	0.000	0.000	0.000		
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000		
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000		
UNDERGROUND SURF COND	0.000	0.000	0.000	0.000	0.000	0.000		
OCCUPANTS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000		
LIGHT TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000		
EQUIPMENT TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000		
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000		
INFILTRATION	0.475	0.139	0.000	0.000	-2.302	-0.674		
TOTAL	3.819	1.119	0.000	0.000	-6.732	-1.973		
TOTAL / AREA	0.000	0.001	0.000	0.000	-0.001	-0.002		
TOTAL LOAD	3.819 KBTU/H		1.119 KW		-6.732 KBTU/H		-1.973 KW	
TOTAL LOAD / AREA	0.29 BTU/H.SQFT		0.926 W/M2		0.518 BTU/H.SQFT		1.633 W/M2	

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* CONSTANT INDOOR SPACE TEMPERATURE
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One LS-C report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-C** Building Peak Load Components

WEATHER FILE- CZ06RV2 WYEC2

*** BUILDING ***

This is the only place total conditioned area is reported (does not include area for unconditioned or plenum spaces).

FLOOR AREA	39000	SQFT	3623	M2
VOLUME	507000	CUFT	14358	M3

This includes the volume of the plenums, if any, since this is a building-level report.

Important Note:

Loads reported here, i.e., at the Bldg. level, are reported **AFTER** the application of Space and Floor Multipliers, if any.

TIME	COOLING LOAD	
	DEC 19	3PM
DRY-BULB TEMP	77 F	25 C
WET-BULB TEMP	53 F	12 C
TOT. HORIZONTAL SOLAR RAD	101 BTU/H.SQFT	318 W/M2
WINDSPEED AT SPACE	2.1 KTS	1.1 M/S
CLOUD AMOUNT 0(CLEAR)-10	0	

HEATING LOAD	
JAN 1	7AM
39 F	4 C
31 F	-1 C
0 BTU/H.SQFT	0 W/M2
2.8 KTS	1.5 M/S
1	

This outdoor air condition is used as the ventilation air temperature for coil sizing.

	SENSIBLE (KBTU/H) (KW)		LATENT (KBTU/H) (KW)		SENSIBLE (KBTU/H) (KW)			
WALL CONDUCTION	16.158	4.734	0.000	0.000	-17.857	-5.232		
ROOF CONDUCTION	-0.078	-0.023	0.000	0.000	-0.273	-0.080		
WINDOW GLASS+FRM COND	63.958	18.740	0.000	0.000	-77.499	-22.707		
WINDOW GLASS SOLAR	101.405	29.712	0.000	0.000	5.656	1.657		
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000		
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000		
UNDERGROUND SURF COND	-3.740	-1.096	0.000	0.000	-4.419	-1.295		
OCCUPANTS TO SPACE	60.187	17.635	56.600	16.584	0.000	0.000		
LIGHT TO SPACE	79.619	23.328	0.000	0.000	0.000	0.000		
EQUIPMENT TO SPACE	128.437	37.632	0.000	0.000	0.000	0.000		
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000		
INFILTRATION	1.826	0.535	0.000	0.000	-16.228	-4.755		
TOTAL	447.772	131.197	56.600	16.584	-110.620	-32.412		
TOTAL / AREA	0.011	0.036	0.001	0.005	-0.003	-0.009		
TOTAL LOAD	504.372	KBTU/H	147.781	KW	-110.620	KBTU/H	-32.412	KW
TOTAL LOAD / AREA	12.93	BTU/H.SQFT	40.787	W/M2	2.836	BTU/H.SQFT	8.946	W/M2

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*
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*
* 3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
* CONSTANT INDOOR SPACE TEMPERATURE
*
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Outside ventilation air is accounted for in the SYSTEMS part of the program, i.e., in "SS-" reports)

**** Important Report ****

One LS-D report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-D** Building Monthly Loads Summary

WEATHER FILE- CZ06RV2 WYEC2

Sensible only

MONTH	C O O L I N G					H E A T I N G					E L E C			
	COOLING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	90.14034	10	15	70.F	52.F	412.483	-16.043	1	7	39.F	31.F	-110.620	19061.	85.960
FEB	80.68713	13	16	70.F	55.F	425.604	-13.641	11	4	42.F	42.F	-84.761	16189.	79.843
MAR	91.65997	6	16	72.F	52.F	408.699	-14.975	11	6	47.F	46.F	-77.978	18505.	70.593
APR	87.09530	4	16	81.F	52.F	420.446	-11.356	1	6	49.F	42.F	-63.547	17110.	69.208
MAY	94.55062	29	16	71.F	63.F	380.400	-8.053	20	4	48.F	44.F	-69.090	17696.	66.893
JUN	98.43995	14	16	80.F	70.F	411.169	-4.127	3	24	55.F	53.F	-42.942	17347.	66.539
JUL	102.93888	10	16	85.F	67.F	428.373	-2.786	1	24	56.F	54.F	-36.997	16949.	66.694
AUG	109.76257	31	16	83.F	63.F	422.272	-1.479	26	5	57.F	55.F	-38.954	18517.	67.593
SEP	93.07864	7	16	79.F	71.F	414.604	-2.375	30	5	56.F	56.F	-38.000	16134.	69.430
OCT	95.27404	3	15	78.F	70.F	407.345	-5.605	28	24	54.F	46.F	-54.647	18248.	76.255
NOV	85.40744	29	15	80.F	59.F	428.962	-11.688	12	6	44.F	40.F	-88.206	17313.	87.964
DEC	84.24862	19	15	77.F	53.F	447.772	-18.967	30	5	40.F	32.F	-94.844	18037.	88.828
TOTAL	1113.284						-111.095						211107.	
MAX						447.772						-110.620		88.828

"MBTU" = Btu x 1,000,000

For components, see LS-F

For components, see LS-C

Important Note:
 Loads reported here are based on maintaining an assumed constant indoor temperature, i.e., this implies 24x7 loads (fan hours only coil loads, see "SS-D").

Includes only items known about by the LOADS program, i.e., lights & plugs... Fans, DX compressors, reheat, etc., are included on "SS-" reports.

**** Important Report ****

One LS-E report per space — only six are shown here (one each for the ground floor zones (others have been omitted for brevity))

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-0.289	0.000	0.000	-0.377	-0.312	-1.299	0.871	0.041	0.101	0.332	0.000	-0.931
	SEN CL	0.197	0.000	0.000	-0.394	-0.168	0.864	4.192	0.401	0.308	1.183	0.000	6.583
	LAT CL					0.019			0.418		0.000	0.000	0.437
FEB	HEATING	-0.262	0.000	0.000	-0.409	-0.296	-1.207	0.737	0.043	0.096	0.337	0.000	-0.961
	SEN CL	0.201	0.000	0.000	-0.350	-0.116	0.804	3.101	0.343	0.219	1.001	0.000	5.203
	LAT CL					0.031			0.363		0.000	0.000	0.394
MAR	HEATING	-0.319	0.000	0.000	-0.478	-0.351	-1.495	0.699	0.054	0.106	0.421	0.000	-1.362
	SEN CL	0.160	0.000	0.000	-0.369	-0.110	0.453	2.522	0.396	0.211	1.145	0.000	4.407
	LAT CL					0.026			0.421		0.000	0.000	0.447
APR	HEATING	-0.279	0.000	0.000	-0.443	-0.295	-1.289	0.450	0.048	0.102	0.383	0.000	-1.324
	SEN CL	0.093	0.000	0.000	-0.344	-0.069	0.069	1.462	0.377	0.184	1.080	0.000	2.851
	LAT CL					0.013			0.400		0.000	0.000	0.412
MAY	HEATING	-0.238	0.000	0.000	-0.357	-0.240	-1.054	0.395	0.046	0.095	0.370	0.000	-0.984
	SEN CL	0.046	0.000	0.000	-0.322	-0.067	0.122	1.462	0.398	0.198	1.154	0.000	2.991
	LAT CL					0.055			0.418		0.000	0.000	0.473
JUN	HEATING	-0.157	0.000	0.000	-0.237	-0.160	-0.682	0.299	0.037	0.075	0.309	0.000	-0.515
	SEN CL	0.076	0.000	0.000	-0.291	-0.039	0.308	1.430	0.393	0.208	1.194	0.000	3.279
	LAT CL					0.195			0.403		0.000	0.000	0.598
JUL	HEATING	-0.119	0.000	0.000	-0.169	-0.116	-0.512	0.252	0.029	0.060	0.247	0.000	-0.328
	SEN CL	0.121	0.000	0.000	-0.262	-0.010	0.478	1.503	0.395	0.214	1.214	0.000	3.653
	LAT CL					0.219			0.400		0.000	0.000	0.619
AUG	HEATING	-0.069	0.000	0.000	-0.084	-0.062	-0.274	0.150	0.017	0.037	0.149	0.000	-0.136
	SEN CL	0.167	0.000	0.000	-0.274	-0.016	0.514	1.686	0.447	0.275	1.439	0.000	4.239
	LAT CL					0.304			0.436		0.000	0.000	0.740
SEP	HEATING	-0.074	0.000	0.000	-0.093	-0.078	-0.327	0.186	0.017	0.040	0.151	0.000	-0.179
	SEN CL	0.242	0.000	0.000	-0.247	-0.018	0.515	1.768	0.375	0.247	1.233	0.000	4.115
	LAT CL					0.282			0.366		0.000	0.000	0.648
OCT	HEATING	-0.134	0.000	0.000	-0.140	-0.141	-0.579	0.343	0.025	0.057	0.217	0.000	-0.352
	SEN CL	0.252	0.000	0.000	-0.270	-0.069	0.650	2.548	0.417	0.291	1.300	0.000	5.119
	LAT CL					0.166			0.418		0.000	0.000	0.584
NOV	HEATING	-0.220	0.000	0.000	-0.223	-0.234	-0.990	0.568	0.032	0.082	0.270	0.000	-0.714
	SEN CL	0.230	0.000	0.000	-0.283	-0.106	0.781	3.296	0.373	0.313	1.131	0.000	5.734
	LAT CL					0.039			0.381		0.000	0.000	0.420
DEC	HEATING	-0.339	0.000	0.000	-0.342	-0.366	-1.485	0.857	0.043	0.109	0.350	0.000	-1.172
	SEN CL	0.230	0.000	0.000	-0.309	-0.152	0.988	3.817	0.367	0.316	1.090	0.000	6.345
	LAT CL					0.004			0.385		0.000	0.000	0.388
TOT	HEATING	-2.499	0.000	0.000	-3.351	-2.650	-11.192	5.805	0.432	0.961	3.536	0.000	-8.957
	SEN CL	2.014	0.000	0.000	-3.715	-0.942	6.547	28.787	4.681	2.984	14.163	0.000	54.520
	LAT CL					1.351			4.808		0.000	0.000	6.160

One LS-E report per space — only six are shown here (page 2 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-0.275	0.000	0.000	-0.354	-0.275	-1.192	0.284	0.039	0.118	0.307	0.000	-1.347
	SEN CL	-0.009	0.000	0.000	-0.239	-0.094	0.051	1.012	0.287	0.251	0.813	0.000	2.071
	LAT CL					0.011			0.309		0.000	0.000	0.320
FEB	HEATING	-0.229	0.000	0.000	-0.337	-0.238	-0.996	0.293	0.034	0.083	0.267	0.000	-1.123
	SEN CL	0.040	0.000	0.000	-0.247	-0.079	0.245	1.159	0.251	0.179	0.722	0.000	2.270
	LAT CL					0.021			0.268		0.000	0.000	0.289
MAR	HEATING	-0.251	0.000	0.000	-0.362	-0.261	-1.092	0.374	0.039	0.085	0.305	0.000	-1.164
	SEN CL	0.048	0.000	0.000	-0.289	-0.093	0.255	1.438	0.293	0.190	0.852	0.000	2.694
	LAT CL					0.020			0.311		0.000	0.000	0.331
APR	HEATING	-0.192	0.000	0.000	-0.311	-0.207	-0.844	0.371	0.033	0.069	0.260	0.000	-0.820
	SEN CL	0.092	0.000	0.000	-0.294	-0.074	0.433	1.612	0.281	0.146	0.820	0.000	3.016
	LAT CL					0.010			0.295		0.000	0.000	0.305
MAY	HEATING	-0.160	0.000	0.000	-0.252	-0.170	-0.696	0.303	0.031	0.062	0.251	0.000	-0.630
	SEN CL	0.099	0.000	0.000	-0.271	-0.067	0.412	1.466	0.297	0.153	0.874	0.000	2.962
	LAT CL					0.046			0.309		0.000	0.000	0.354
JUN	HEATING	-0.099	0.000	0.000	-0.156	-0.108	-0.428	0.233	0.023	0.047	0.194	0.000	-0.295
	SEN CL	0.139	0.000	0.000	-0.251	-0.045	0.552	1.502	0.295	0.161	0.917	0.000	3.269
	LAT CL					0.165			0.298		0.000	0.000	0.463
JUL	HEATING	-0.064	0.000	0.000	-0.093	-0.068	-0.276	0.176	0.013	0.029	0.121	0.000	-0.162
	SEN CL	0.202	0.000	0.000	-0.239	-0.028	0.751	1.747	0.299	0.172	0.958	0.000	3.863
	LAT CL					0.192			0.295		0.000	0.000	0.488
AUG	HEATING	-0.039	0.000	0.000	-0.046	-0.037	-0.149	0.097	0.009	0.020	0.080	0.000	-0.065
	SEN CL	0.211	0.000	0.000	-0.229	-0.023	0.824	1.797	0.333	0.210	1.093	0.000	4.217
	LAT CL					0.254			0.323		0.000	0.000	0.577
SEP	HEATING	-0.061	0.000	0.000	-0.074	-0.062	-0.244	0.136	0.013	0.031	0.118	0.000	-0.142
	SEN CL	0.151	0.000	0.000	-0.187	-0.012	0.607	1.261	0.277	0.183	0.904	0.000	3.183
	LAT CL					0.214			0.271		0.000	0.000	0.484
OCT	HEATING	-0.128	0.000	0.000	-0.138	-0.128	-0.525	0.194	0.026	0.065	0.216	0.000	-0.419
	SEN CL	0.095	0.000	0.000	-0.177	-0.034	0.436	1.095	0.300	0.214	0.905	0.000	2.834
	LAT CL					0.107			0.309		0.000	0.000	0.416
NOV	HEATING	-0.204	0.000	0.000	-0.213	-0.204	-0.882	0.239	0.033	0.086	0.258	0.000	-0.888
	SEN CL	0.032	0.000	0.000	-0.175	-0.058	0.187	0.918	0.267	0.248	0.777	0.000	2.195
	LAT CL					0.019			0.282		0.000	0.000	0.301
DEC	HEATING	-0.320	0.000	0.000	-0.308	-0.315	-1.330	0.258	0.039	0.120	0.304	0.000	-1.553
	SEN CL	-0.012	0.000	0.000	-0.193	-0.084	0.026	0.836	0.264	0.244	0.759	0.000	1.840
	LAT CL					0.002			0.284		0.000	0.000	0.286
TOT	HEATING	-2.022	0.000	0.000	-2.645	-2.073	-8.654	2.958	0.334	0.814	2.680	0.000	-8.608
	SEN CL	1.087	0.000	0.000	-2.790	-0.690	4.777	15.841	3.443	2.353	10.393	0.000	34.414
	LAT CL					1.059			3.554		0.000	0.000	4.613

One LS-E report per space — only six are shown here (page 3 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-0.432	0.000	0.000	-0.520	-0.405	-1.836	0.249	0.059	0.222	0.457	0.000	-2.205
	SEN CL	-0.108	0.000	0.000	-0.251	-0.075	-0.333	0.468	0.382	0.350	1.058	0.000	1.491
	LAT CL					0.013			0.418		0.000	0.000	0.431
FEB	HEATING	-0.356	0.000	0.000	-0.486	-0.342	-1.511	0.240	0.050	0.145	0.395	0.000	-1.864
	SEN CL	-0.076	0.000	0.000	-0.273	-0.070	-0.209	0.587	0.336	0.240	0.943	0.000	1.477
	LAT CL					0.025			0.363		0.000	0.000	0.388
MAR	HEATING	-0.396	0.000	0.000	-0.532	-0.384	-1.700	0.340	0.060	0.134	0.463	0.000	-2.014
	SEN CL	-0.070	0.000	0.000	-0.314	-0.077	-0.183	0.817	0.390	0.218	1.103	0.000	1.884
	LAT CL					0.024			0.421		0.000	0.000	0.445
APR	HEATING	-0.298	0.000	0.000	-0.451	-0.298	-1.294	0.347	0.049	0.106	0.389	0.000	-1.450
	SEN CL	-0.034	0.000	0.000	-0.336	-0.067	-0.019	1.014	0.376	0.184	1.074	0.000	2.192
	LAT CL					0.012			0.400		0.000	0.000	0.412
MAY	HEATING	-0.227	0.000	0.000	-0.344	-0.233	-1.001	0.352	0.044	0.091	0.355	0.000	-0.963
	SEN CL	0.013	0.000	0.000	-0.336	-0.074	0.135	1.328	0.400	0.202	1.169	0.000	2.837
	LAT CL					0.058			0.418		0.000	0.000	0.475
JUN	HEATING	-0.138	0.000	0.000	-0.217	-0.148	-0.617	0.274	0.034	0.068	0.282	0.000	-0.460
	SEN CL	0.083	0.000	0.000	-0.312	-0.051	0.383	1.493	0.397	0.214	1.221	0.000	3.427
	LAT CL					0.206			0.403		0.000	0.000	0.609
JUL	HEATING	-0.108	0.000	0.000	-0.159	-0.110	-0.479	0.236	0.027	0.057	0.234	0.000	-0.303
	SEN CL	0.112	0.000	0.000	-0.271	-0.015	0.533	1.481	0.396	0.217	1.227	0.000	3.680
	LAT CL					0.226			0.400		0.000	0.000	0.625
AUG	HEATING	-0.078	0.000	0.000	-0.094	-0.069	-0.302	0.136	0.020	0.043	0.173	0.000	-0.171
	SEN CL	0.094	0.000	0.000	-0.264	-0.010	0.490	1.345	0.444	0.269	1.415	0.000	3.783
	LAT CL					0.292			0.436		0.000	0.000	0.728
SEP	HEATING	-0.099	0.000	0.000	-0.120	-0.093	-0.399	0.156	0.023	0.053	0.201	0.000	-0.278
	SEN CL	0.068	0.000	0.000	-0.220	-0.003	0.397	1.062	0.369	0.236	1.183	0.000	3.093
	LAT CL					0.250			0.366		0.000	0.000	0.616
OCT	HEATING	-0.201	0.000	0.000	-0.204	-0.186	-0.820	0.198	0.042	0.109	0.339	0.000	-0.724
	SEN CL	0.018	0.000	0.000	-0.205	-0.025	0.188	0.837	0.400	0.276	1.178	0.000	2.667
	LAT CL					0.125			0.418		0.000	0.000	0.543
NOV	HEATING	-0.323	0.000	0.000	-0.316	-0.299	-1.374	0.221	0.051	0.145	0.398	0.000	-1.498
	SEN CL	-0.049	0.000	0.000	-0.190	-0.042	-0.085	0.554	0.355	0.329	1.003	0.000	1.876
	LAT CL					0.019			0.381		0.000	0.000	0.401
DEC	HEATING	-0.488	0.000	0.000	-0.445	-0.449	-1.993	0.238	0.058	0.216	0.452	0.000	-2.410
	SEN CL	-0.099	0.000	0.000	-0.207	-0.069	-0.291	0.444	0.352	0.351	0.988	0.000	1.469
	LAT CL					0.002			0.384		0.000	0.000	0.386
TOT	HEATING	-3.143	0.000	0.000	-3.888	-3.014	-13.326	2.989	0.517	1.389	4.137	0.000	-14.340
	SEN CL	-0.049	0.000	0.000	-3.178	-0.578	1.007	11.431	4.596	3.085	13.563	0.000	29.877
	LAT CL					1.251			4.808		0.000	0.000	6.059

One LS-E report per space — only six are shown here (page 4 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-0.281	0.000	0.000	-0.366	-0.291	-1.235	0.353	0.039	0.124	0.311	0.000	-1.347
	SEN CL	-0.028	0.000	0.000	-0.226	-0.078	0.029	0.991	0.287	0.230	0.808	0.000	2.013
	LAT CL					0.012			0.309		0.000	0.000	0.321
FEB	HEATING	-0.230	0.000	0.000	-0.344	-0.248	-1.017	0.339	0.034	0.093	0.270	0.000	-1.104
	SEN CL	0.006	0.000	0.000	-0.240	-0.069	0.131	1.079	0.251	0.168	0.718	0.000	2.045
	LAT CL					0.022			0.268		0.000	0.000	0.290
MAR	HEATING	-0.247	0.000	0.000	-0.366	-0.271	-1.107	0.490	0.038	0.084	0.304	0.000	-1.076
	SEN CL	0.041	0.000	0.000	-0.285	-0.084	0.257	1.688	0.295	0.159	0.853	0.000	2.923
	LAT CL					0.021			0.311		0.000	0.000	0.332
APR	HEATING	-0.187	0.000	0.000	-0.298	-0.205	-0.822	0.445	0.028	0.072	0.242	0.000	-0.724
	SEN CL	0.062	0.000	0.000	-0.307	-0.076	0.323	1.840	0.285	0.153	0.839	0.000	3.120
	LAT CL					0.011			0.295		0.000	0.000	0.306
MAY	HEATING	-0.141	0.000	0.000	-0.222	-0.157	-0.622	0.396	0.025	0.056	0.214	0.000	-0.452
	SEN CL	0.118	0.000	0.000	-0.301	-0.079	0.467	2.099	0.303	0.161	0.912	0.000	3.680
	LAT CL					0.053			0.309		0.000	0.000	0.362
JUN	HEATING	-0.078	0.000	0.000	-0.116	-0.085	-0.330	0.251	0.016	0.034	0.139	0.000	-0.168
	SEN CL	0.155	0.000	0.000	-0.291	-0.068	0.595	2.223	0.302	0.174	0.971	0.000	4.063
	LAT CL					0.185			0.298		0.000	0.000	0.483
JUL	HEATING	-0.040	0.000	0.000	-0.056	-0.045	-0.173	0.154	0.007	0.015	0.064	0.000	-0.074
	SEN CL	0.174	0.000	0.000	-0.275	-0.052	0.676	2.339	0.306	0.187	1.015	0.000	4.371
	LAT CL					0.213			0.295		0.000	0.000	0.509
AUG	HEATING	-0.020	0.000	0.000	-0.023	-0.021	-0.080	0.066	0.004	0.008	0.033	0.000	-0.033
	SEN CL	0.188	0.000	0.000	-0.252	-0.039	0.717	2.206	0.339	0.225	1.140	0.000	4.524
	LAT CL					0.278			0.323		0.000	0.000	0.600
SEP	HEATING	-0.041	0.000	0.000	-0.046	-0.043	-0.165	0.119	0.008	0.017	0.069	0.000	-0.082
	SEN CL	0.152	0.000	0.000	-0.215	-0.031	0.608	1.881	0.282	0.198	0.953	0.000	3.828
	LAT CL					0.242			0.271		0.000	0.000	0.513
OCT	HEATING	-0.117	0.000	0.000	-0.118	-0.119	-0.475	0.227	0.021	0.056	0.179	0.000	-0.346
	SEN CL	0.089	0.000	0.000	-0.197	-0.043	0.398	1.422	0.306	0.213	0.942	0.000	3.130
	LAT CL					0.123			0.309		0.000	0.000	0.432
NOV	HEATING	-0.217	0.000	0.000	-0.221	-0.219	-0.926	0.291	0.033	0.090	0.265	0.000	-0.904
	SEN CL	0.027	0.000	0.000	-0.167	-0.043	0.195	0.973	0.267	0.212	0.770	0.000	2.233
	LAT CL					0.020			0.282		0.000	0.000	0.302
DEC	HEATING	-0.319	0.000	0.000	-0.314	-0.325	-1.349	0.304	0.038	0.124	0.308	0.000	-1.533
	SEN CL	-0.017	0.000	0.000	-0.187	-0.074	0.069	0.859	0.264	0.228	0.756	0.000	1.899
	LAT CL					0.002			0.284		0.000	0.000	0.286
TOT	HEATING	-1.919	0.000	0.000	-2.492	-2.028	-8.301	3.436	0.290	0.773	2.398	0.000	-7.843
	SEN CL	0.966	0.000	0.000	-2.942	-0.735	4.466	19.602	3.487	2.309	10.675	0.000	37.829
	LAT CL					1.183			3.554		0.000	0.000	4.737

One LS-E report per space — only six are shown here (page 5 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components Core Space (G.C5)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATNG	0.000	0.000	0.000	-0.055	-0.008	0.000	0.000	0.001	0.010	0.008	0.000	-0.044
	SEN CL	0.000	0.000	0.000	-0.506	-0.068	0.000	0.000	2.671	6.325	5.536	0.000	13.958
	LAT CL					0.005			2.241		0.000	0.000	2.246
FEB	HEATNG	0.000	0.000	0.000	-0.062	-0.006	0.000	0.000	0.001	0.011	0.009	0.000	-0.046
	SEN CL	0.000	0.000	0.000	-0.491	-0.059	0.000	0.000	2.326	5.561	4.871	0.000	12.207
	LAT CL					0.007			1.945		0.000	0.000	1.952
MAR	HEATNG	0.000	0.000	0.000	-0.042	-0.004	0.000	0.000	0.001	0.011	0.009	0.000	-0.026
	SEN CL	0.000	0.000	0.000	-0.574	-0.068	0.000	0.000	2.709	6.507	5.699	0.000	14.273
	LAT CL					0.005			2.259		0.000	0.000	2.264
APR	HEATNG	0.000	0.000	0.000	-0.051	-0.004	0.000	0.000	0.001	0.012	0.010	0.000	-0.031
	SEN CL	0.000	0.000	0.000	-0.522	-0.053	0.000	0.000	2.556	6.078	5.320	0.000	13.378
	LAT CL					0.003			2.142		0.000	0.000	2.146
MAY	HEATNG	0.000	0.000	0.000	-0.047	-0.003	0.000	0.000	0.001	0.008	0.007	0.000	-0.034
	SEN CL	0.000	0.000	0.000	-0.448	-0.045	0.000	0.000	2.680	6.356	5.555	0.000	14.098
	LAT CL					0.014			2.241		0.000	0.000	2.255
JUN	HEATNG	0.000	0.000	0.000	-0.021	-0.002	0.000	0.000	0.001	0.006	0.005	0.000	-0.012
	SEN CL	0.000	0.000	0.000	-0.364	-0.029	0.000	0.000	2.591	6.245	5.474	0.000	13.917
	LAT CL					0.044			2.161		0.000	0.000	2.205
JUL	HEATNG	0.000	0.000	0.000	-0.019	-0.002	0.000	0.000	0.001	0.006	0.005	0.000	-0.009
	SEN CL	0.000	0.000	0.000	-0.295	-0.018	0.000	0.000	2.556	6.081	5.324	0.000	13.649
	LAT CL					0.046			2.142		0.000	0.000	2.189
AUG	HEATNG	0.000	0.000	0.000	-0.010	-0.001	0.000	0.000	0.000	0.003	0.003	0.000	-0.004
	SEN CL	0.000	0.000	0.000	-0.250	-0.012	0.000	0.000	2.799	6.627	5.788	0.000	14.952
	LAT CL					0.058			2.339		0.000	0.000	2.398
SEP	HEATNG	0.000	0.000	0.000	-0.021	-0.002	0.000	0.000	0.001	0.005	0.004	0.000	-0.013
	SEN CL	0.000	0.000	0.000	-0.227	-0.013	0.000	0.000	2.356	5.731	5.031	0.000	12.878
	LAT CL					0.053			1.963		0.000	0.000	2.016
OCT	HEATNG	0.000	0.000	0.000	-0.023	-0.003	0.000	0.000	0.001	0.005	0.004	0.000	-0.016
	SEN CL	0.000	0.000	0.000	-0.276	-0.030	0.000	0.000	2.672	6.330	5.540	0.000	14.236
	LAT CL					0.030			2.241		0.000	0.000	2.271
NOV	HEATNG	0.000	0.000	0.000	-0.035	-0.006	0.000	0.000	0.001	0.008	0.006	0.000	-0.026
	SEN CL	0.000	0.000	0.000	-0.334	-0.048	0.000	0.000	2.444	5.829	5.101	0.000	12.993
	LAT CL					0.008			2.044		0.000	0.000	2.052
DEC	HEATNG	0.000	0.000	0.000	-0.040	-0.007	0.000	0.000	0.002	0.012	0.009	0.000	-0.024
	SEN CL	0.000	0.000	0.000	-0.435	-0.075	0.000	0.000	2.466	5.963	5.237	0.000	13.155
	LAT CL					0.001			2.062		0.000	0.000	2.063
TOT	HEATNG	0.000	0.000	0.000	-0.425	-0.047	0.000	0.000	0.012	0.096	0.079	0.000	-0.286
	SEN CL	0.000	0.000	0.000	-4.722	-0.518	0.000	0.000	30.825	73.632	64.477	0.000	163.693
	LAT CL					0.275			25.780		0.000	0.000	26.055

One LS-E report per space — only six are shown here (page 6 of 6)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-E** Space Monthly Load Components Plenum (G.6)

WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-1.069	0.000	0.000	0.000	-0.651	0.000	0.000	0.000	0.000	0.000	0.000	-1.720
	SEN CL	0.111	0.000	0.000	0.000	-0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.086
	LAT CL					0.006			0.000		0.000	0.000	0.006
FEB	HEATING	-0.847	0.000	0.000	0.000	-0.554	0.000	0.000	0.000	0.000	0.000	0.000	-1.401
	SEN CL	0.143	0.000	0.000	0.000	-0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.111
	LAT CL					0.022			0.000		0.000	0.000	0.022
MAR	HEATING	-0.940	0.000	0.000	0.000	-0.625	0.000	0.000	0.000	0.000	0.000	0.000	-1.566
	SEN CL	0.133	0.000	0.000	0.000	-0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.104
	LAT CL					0.019			0.000		0.000	0.000	0.019
APR	HEATING	-0.738	0.000	0.000	0.000	-0.507	0.000	0.000	0.000	0.000	0.000	0.000	-1.245
	SEN CL	0.165	0.000	0.000	0.000	-0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.152
	LAT CL					0.007			0.000		0.000	0.000	0.007
MAY	HEATING	-0.571	0.000	0.000	0.000	-0.411	0.000	0.000	0.000	0.000	0.000	0.000	-0.982
	SEN CL	0.218	0.000	0.000	0.000	-0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.189
	LAT CL					0.051			0.000		0.000	0.000	0.051
JUN	HEATING	-0.353	0.000	0.000	0.000	-0.275	0.000	0.000	0.000	0.000	0.000	0.000	-0.628
	SEN CL	0.364	0.000	0.000	0.000	-0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.347
	LAT CL					0.203			0.000		0.000	0.000	0.203
JUL	HEATING	-0.260	0.000	0.000	0.000	-0.207	0.000	0.000	0.000	0.000	0.000	0.000	-0.466
	SEN CL	0.507	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.523
	LAT CL					0.232			0.000		0.000	0.000	0.232
AUG	HEATING	-0.208	0.000	0.000	0.000	-0.147	0.000	0.000	0.000	0.000	0.000	0.000	-0.355
	SEN CL	0.609	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.634
	LAT CL					0.240			0.000		0.000	0.000	0.240
SEP	HEATING	-0.235	0.000	0.000	0.000	-0.174	0.000	0.000	0.000	0.000	0.000	0.000	-0.409
	SEN CL	0.534	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.562
	LAT CL					0.241			0.000		0.000	0.000	0.241
OCT	HEATING	-0.465	0.000	0.000	0.000	-0.306	0.000	0.000	0.000	0.000	0.000	0.000	-0.771
	SEN CL	0.374	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.378
	LAT CL					0.119			0.000		0.000	0.000	0.119
NOV	HEATING	-0.782	0.000	0.000	0.000	-0.482	0.000	0.000	0.000	0.000	0.000	0.000	-1.263
	SEN CL	0.218	0.000	0.000	0.000	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.208
	LAT CL					0.014			0.000		0.000	0.000	0.014
DEC	HEATING	-1.192	0.000	0.000	0.000	-0.719	0.000	0.000	0.000	0.000	0.000	0.000	-1.911
	SEN CL	0.124	0.000	0.000	0.000	-0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.102
	LAT CL					0.001			0.000		0.000	0.000	0.001
TOT	HEATING	-7.660	0.000	0.000	0.000	-5.057	0.000	0.000	0.000	0.000	0.000	0.000	-12.717
	SEN CL	3.501	0.000	0.000	0.000	-0.104	0.000	0.000	0.000	0.000	0.000	0.000	3.397
	LAT CL					1.155			0.000		0.000	0.000	1.155

One LS-F report only (this is a building level report)

Directly transmitted portion only

3-Story Office Bldg Conduction + "inward flowing fraction" DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-F** Building Monthly Load Components in MBTU WEATHER FILE- CZ06RV2 WYEC2

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
JAN	HEATING	-3.816	-0.013	0.000	-1.672	-3.673	-16.769	3.210	0.317	1.072	5.300	0.000	-16.043
	SEN CL	0.114	-0.084	0.000	-1.616	-1.651	-0.775	24.418	13.414	22.245	34.076	0.000	90.140
	LAT CL					0.206			11.584		0.000	0.000	11.791
FEB	HEATING	-3.267	-0.007	0.000	-1.638	-3.203	-14.236	2.947	0.282	0.738	4.743	0.000	-13.641
	SEN CL	0.530	-0.075	0.000	-1.601	-1.365	0.697	22.847	11.675	18.075	29.904	0.000	80.687
	LAT CL					0.355			10.056		0.000	0.000	10.411
MAR	HEATING	-3.687	-0.004	0.000	-1.781	-3.602	-16.029	3.583	0.332	0.664	5.550	0.000	-14.975
	SEN CL	0.562	-0.089	0.000	-1.831	-1.507	-0.478	26.435	13.587	20.011	34.970	0.000	91.660
	LAT CL					0.302			11.679		0.000	0.000	11.981
APR	HEATING	-2.916	-0.002	0.000	-1.555	-2.855	-12.669	3.074	0.261	0.593	4.712	0.000	-11.356
	SEN CL	0.674	-0.075	0.000	-1.803	-1.187	0.037	25.427	12.883	17.996	33.143	0.000	87.095
	LAT CL					0.155			11.075		0.000	0.000	11.230
MAY	HEATING	-2.316	-0.001	0.000	-1.222	-2.222	-9.878	2.684	0.222	0.455	4.226	0.000	-8.053
	SEN CL	0.843	-0.066	0.000	-1.678	-1.183	1.303	28.050	13.548	18.476	35.257	0.000	94.551
	LAT CL					0.715			11.584		0.000	0.000	12.299
JUN	HEATING	-1.446	0.000	0.000	-0.747	-1.391	-6.109	1.852	0.156	0.305	3.253	0.000	-4.127
	SEN CL	1.394	-0.046	0.000	-1.509	-0.813	4.216	28.260	13.153	18.137	35.648	0.000	98.440
	LAT CL					2.482			11.169		0.000	0.000	13.652
JUL	HEATING	-1.088	0.000	0.000	-0.496	-0.991	-4.549	1.481	0.106	0.226	2.525	0.000	-2.786
	SEN CL	1.935	-0.040	0.000	-1.342	-0.402	6.529	30.083	13.035	17.821	35.320	0.000	102.939
	LAT CL					2.710			11.075		0.000	0.000	13.785
AUG	HEATING	-0.734	0.000	0.000	-0.256	-0.597	-2.790	0.801	0.073	0.154	1.871	0.000	-1.479
	SEN CL	2.110	-0.034	0.000	-1.268	-0.270	7.081	28.727	14.306	19.876	39.234	0.000	109.763
	LAT CL					3.476			12.094		0.000	0.000	15.569
SEP	HEATING	-0.918	0.000	0.000	-0.354	-0.830	-3.704	1.035	0.085	0.207	2.105	0.000	-2.375
	SEN CL	1.941	-0.034	0.000	-1.094	-0.233	5.609	23.735	12.021	17.501	33.633	0.000	93.079
	LAT CL					3.119			10.150		0.000	0.000	13.269
OCT	HEATING	-1.798	-0.004	0.000	-0.624	-1.641	-7.361	1.705	0.172	0.449	3.497	0.000	-5.605
	SEN CL	1.419	-0.051	0.000	-1.125	-0.690	3.599	22.469	13.560	20.207	35.887	0.000	95.274
	LAT CL					1.717			11.584		0.000	0.000	13.301
NOV	HEATING	-2.927	-0.012	0.000	-1.008	-2.765	-12.820	2.468	0.240	0.718	4.419	0.000	-11.688
	SEN CL	0.745	-0.067	0.000	-1.149	-1.009	1.331	21.240	12.323	20.151	31.843	0.000	85.407
	LAT CL					0.358			10.565		0.000	0.000	10.923
DEC	HEATING	-4.461	-0.020	0.000	-1.450	-4.213	-18.990	3.230	0.332	1.132	5.473	0.000	-18.967
	SEN CL	0.313	-0.094	0.000	-1.330	-1.532	-0.140	21.754	12.347	21.143	31.790	0.000	84.249
	LAT CL					0.038			10.659		0.000	0.000	10.697
TOT	HEATING	-29.704	-0.064	0.000	-12.870	-28.273	-127.396	28.126	2.655	6.888	48.102	0.000	-112.535
	SEN CL	12.737	-0.759	0.000	-17.443	-11.769	29.516	304.707	156.980	233.372	413.511	0.000	1120.852
	LAT CL					15.636			134.219		0.000	0.000	149.855

Internal Surfaces: These loads will be zero in this report if you choose the same LOADS calculation temperature for all spaces (as was the case in this example).

**** Important Report ****

One LS-G report per glazed space — only five are shown here (one each for the ground floor glazed perimeter zones plus the top floor skylit core zone (others have been omitted for brevity))

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-G** Space Daylighting Summary

South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

SPACE South Perim Space (G.S1)

MONTH	PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (ALL HOURS)			PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (REPORT SCHEDULE HOURS)			REPORT SCHEDULE HOURS WITH SUN UP							
	TOTAL ZONE	REF PT 1	REF PT 2	TOTAL ZONE	REF PT 1	REF PT 2	AVERAGE DAYLIGHT ILLUMINANCE (FOOTCANDLES)		PERCENT HOURS DAYLIGHT ILLUMINANCE ABOVE SETPOINT		AVERAGE GLARE INDEX		PERCENT HOURS GLARE TOO HIGH	
							REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2
JAN	77.4	77.4	0.0	77.4	77.4	0.0	236.5	0.0	79.3	0.0	17.3	0.0	29.0	0.0
FEB	80.8	80.8	0.0	80.8	80.8	0.0	175.2	0.0	79.2	0.0	17.0	0.0	24.1	0.0
MAR	84.1	84.1	0.0	84.1	84.1	0.0	142.3	0.0	78.3	0.0	18.0	0.0	33.9	0.0
APR	84.8	84.8	0.0	84.8	84.8	0.0	100.7	0.0	80.5	0.0	16.8	0.0	35.5	0.0
MAY	85.2	85.2	0.0	85.2	85.2	0.0	90.6	0.0	76.9	0.0	17.4	0.0	43.4	0.0
JUN	85.4	85.4	0.0	85.4	85.4	0.0	80.8	0.0	72.5	0.0	16.7	0.0	35.6	0.0
JUL	85.6	85.6	0.0	85.6	85.6	0.0	80.2	0.0	76.2	0.0	16.9	0.0	31.3	0.0
AUG	84.7	84.7	0.0	84.7	84.7	0.0	97.1	0.0	80.9	0.0	17.4	0.0	40.1	0.0
SEP	83.5	83.5	0.0	83.5	83.5	0.0	119.0	0.0	75.3	0.0	17.8	0.0	47.9	0.0
OCT	81.5	81.5	0.0	81.5	81.5	0.0	156.8	0.0	77.6	0.0	17.6	0.0	37.6	0.0
NOV	76.1	76.1	0.0	76.1	76.1	0.0	205.8	0.0	78.8	0.0	18.2	0.0	30.6	0.0
DEC	74.8	74.8	0.0	74.8	74.8	0.0	244.4	0.0	77.4	0.0	17.8	0.0	34.3	0.0
ANNUAL	82.1	82.1	0.0	82.1	82.1	0.0	137.1	0.0	77.6	0.0	17.4	0.0	35.7	0.0

Based on ALL hours, including nighttime operations (if any) when the lighting energy reduction due to daylighting is zero

Based on hours defined using the daylight reporting schedule (used to constrain reporting hours).

Important Note: task lighting is never controlled by daylighting in DOE-2.

Based on all SUN UP hours defined using the daylight reporting schedule (if defined).

**** Important Report (Daylighting) ****

One LS-G report per space — only five are shown here (page 2 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-G** Space Daylighting Summary

East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

SPACE East Perim Space (G.E2)

-----REPORT SCHEDULE HOURS WITH SUN UP-----

MONTH	PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (ALL HOURS)			PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (REPORT SCHEDULE HOURS)			AVERAGE DAYLIGHT ILLUMINANCE (FOOTCANDLES)		PERCENT HOURS DAYLIGHTa ILLUMINANCE ABOVE SETPOINT		AVERAGE GLARE INDEX		PERCENT HOURS GLARE TOO HIGH	
	TOTAL ZONE	REF PT 1	REF PT 2	TOTAL ZONE	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2
JAN	71.5	71.5	0.0	71.5	71.5	0.0	114.5	0.0	55.4	0.0	15.3	0.0	29.0	0.0
FEB	77.9	77.9	0.0	77.9	77.9	0.0	117.7	0.0	63.7	0.0	14.2	0.0	20.5	0.0
MAR	80.6	80.6	0.0	80.6	80.6	0.0	108.8	0.0	65.6	0.0	14.0	0.0	12.2	0.0
APR	84.4	84.4	0.0	84.4	84.4	0.0	104.5	0.0	68.3	0.0	13.2	0.0	8.1	0.0
MAY	85.3	85.3	0.0	85.3	85.3	0.0	98.1	0.0	69.4	0.0	13.0	0.0	5.3	0.0
JUN	85.5	85.5	0.0	85.5	85.5	0.0	95.2	0.0	66.7	0.0	12.4	0.0	4.7	0.0
JUL	85.7	85.7	0.0	85.7	85.7	0.0	101.0	0.0	71.1	0.0	12.8	0.0	7.9	0.0
AUG	84.7	84.7	0.0	84.7	84.7	0.0	107.4	0.0	71.7	0.0	13.3	0.0	8.5	0.0
SEP	83.3	83.3	0.0	83.3	83.3	0.0	92.0	0.0	68.8	0.0	13.0	0.0	7.7	0.0
OCT	79.4	79.4	0.0	79.4	79.4	0.0	98.1	0.0	66.8	0.0	13.9	0.0	12.4	0.0
NOV	72.1	72.1	0.0	72.1	72.1	0.0	111.2	0.0	62.1	0.0	15.4	0.0	22.7	0.0
DEC	70.1	70.1	0.0	70.1	70.1	0.0	104.9	0.0	54.5	0.0	15.4	0.0	31.0	0.0
ANNUAL	80.1	80.1	0.0	80.1	80.1	0.0	103.8	0.0	65.9	0.0	13.7	0.0	13.1	0.0

One LS-G report per space — only five are shown here (page 3 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-G** Space Daylighting Summary

North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

SPACE North Perim Space (G.N3)

-----REPORT SCHEDULE HOURS WITH SUN UP-----

MONTH	PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (ALL HOURS)			PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (REPORT SCHEDULE HOURS)			AVERAGE DAYLIGHT ILLUMINANCE (FOOTCANDLES)		PERCENT HOURS DAYLIGHT ILLUMINANCE ABOVE SETPOINT		AVERAGE GLARE INDEX		PERCENT HOURS GLARE TOO HIGH	
	TOTAL ZONE	REF PT 1	REF PT 2	TOTAL ZONE	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2
JAN	66.7	66.7	0.0	66.7	66.7	0.0	37.3	0.0	25.4	0.0	13.7	0.0	0.6	0.0
FEB	75.7	75.7	0.0	75.7	75.7	0.0	46.5	0.0	46.1	0.0	14.2	0.0	5.1	0.0
MAR	81.9	81.9	0.0	81.9	81.9	0.0	55.9	0.0	57.1	0.0	15.8	0.0	12.2	0.0
APR	84.5	84.5	0.0	84.5	84.5	0.0	64.2	0.0	72.4	0.0	16.0	0.0	18.8	0.0
MAY	85.2	85.2	0.0	85.2	85.2	0.0	76.5	0.0	76.4	0.0	16.9	0.0	31.9	0.0
JUN	85.5	85.5	0.0	85.5	85.5	0.0	75.7	0.0	72.5	0.0	16.5	0.0	30.0	0.0
JUL	85.6	85.6	0.0	85.6	85.6	0.0	70.7	0.0	75.8	0.0	16.9	0.0	24.8	0.0
AUG	84.7	84.7	0.0	84.7	84.7	0.0	66.9	0.0	79.0	0.0	16.9	0.0	24.0	0.0
SEP	83.3	83.3	0.0	83.3	83.3	0.0	60.8	0.0	71.8	0.0	16.1	0.0	19.5	0.0
OCT	79.0	79.0	0.0	79.0	79.0	0.0	55.5	0.0	63.2	0.0	15.4	0.0	11.8	0.0
NOV	70.5	70.5	0.0	70.5	70.5	0.0	45.0	0.0	40.3	0.0	14.8	0.0	0.9	0.0
DEC	65.0	65.0	0.0	65.0	65.0	0.0	38.0	0.0	26.5	0.0	13.6	0.0	1.5	0.0
ANNUAL	79.1	79.1	0.0	79.1	79.1	0.0	59.4	0.0	61.1	0.0	15.7	0.0	16.5	0.0

One LS-G report per space — only five are shown here (page 4 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-G** Space Daylighting Summary

West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

SPACE West Perim Space (G.W4)

-----REPORT SCHEDULE HOURS WITH SUN UP-----

MONTH	PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (ALL HOURS)			PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (REPORT SCHEDULE HOURS)			AVERAGE DAYLIGHT ILLUMINANCE (FOOTCANDLES)		PERCENT HOURS DAYLIGHT ILLUMINANCE ABOVE SETPOINT		AVERAGE GLARE INDEX		PERCENT HOURS GLARE TOO HIGH	
	TOTAL ZONE	REF PT 1	REF PT 2	TOTAL ZONE	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2
JAN	72.9	72.9	0.0	72.9	72.9	0.0	118.8	0.0	55.1	0.0	11.8	0.0	0.9	0.0
FEB	78.0	78.0	0.0	78.0	78.0	0.0	113.7	0.0	61.6	0.0	12.6	0.0	6.8	0.0
MAR	83.4	83.4	0.0	83.4	83.4	0.0	134.3	0.0	70.2	0.0	14.4	0.0	18.1	0.0
APR	83.5	83.5	0.0	83.5	83.5	0.0	119.4	0.0	71.7	0.0	13.6	0.0	11.9	0.0
MAY	85.1	85.1	0.0	85.1	85.1	0.0	134.0	0.0	75.3	0.0	14.8	0.0	14.1	0.0
JUN	85.5	85.5	0.0	85.5	85.5	0.0	130.4	0.0	76.2	0.0	14.6	0.0	15.7	0.0
JUL	85.6	85.6	0.0	85.6	85.6	0.0	127.7	0.0	77.5	0.0	14.4	0.0	15.8	0.0
AUG	84.5	84.5	0.0	84.5	84.5	0.0	127.4	0.0	75.6	0.0	14.1	0.0	13.4	0.0
SEP	83.1	83.1	0.0	83.1	83.1	0.0	130.1	0.0	76.1	0.0	14.5	0.0	16.7	0.0
OCT	80.4	80.4	0.0	80.4	80.4	0.0	129.7	0.0	72.6	0.0	13.7	0.0	13.4	0.0
NOV	75.1	75.1	0.0	75.1	75.1	0.0	119.9	0.0	64.8	0.0	12.9	0.0	1.8	0.0
DEC	71.3	71.3	0.0	71.3	71.3	0.0	116.8	0.0	53.3	0.0	11.8	0.0	0.0	0.0
ANNUAL	80.8	80.8	0.0	80.8	80.8	0.0	125.8	0.0	70.1	0.0	13.7	0.0	11.4	0.0

One LS-G report per space — only five are shown here (page 5 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-G** Space Daylighting Summary Core Space (T.C17)

WEATHER FILE- CZ06RV2 WYEC2

SPACE Core Space (T.C17)

-----REPORT SCHEDULE HOURS WITH SUN UP-----

MONTH	PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (ALL HOURS)			PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHTING (REPORT SCHEDULE HOURS)			AVERAGE DAYLIGHT ILLUMINANCE (FOOTCANDLES)		PERCENT HOURS DAYLIGHT ILLUMINANCE ABOVE SETPOINT		AVERAGE GLARE INDEX		PERCENT HOURS GLARE TOO HIGH	
	TOTAL ZONE	REF PT 1	REF PT 2	TOTAL ZONE	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2	REF PT 1	REF PT 2
JAN	37.8	37.8	0.0	37.8	37.8	0.0	18.5	0.0	0.0	0.0	8.9	0.0	0.0	0.0
FEB	51.9	51.9	0.0	51.9	51.9	0.0	23.7	0.0	6.5	0.0	9.7	0.0	0.0	0.0
MAR	61.6	61.6	0.0	61.6	61.6	0.0	28.4	0.0	13.0	0.0	10.8	0.0	0.0	0.0
APR	70.7	70.7	0.0	70.7	70.7	0.0	31.7	0.0	18.6	0.0	11.1	0.0	0.2	0.0
MAY	77.0	77.0	0.0	77.0	77.0	0.0	36.4	0.0	28.9	0.0	12.2	0.0	0.4	0.0
JUN	78.4	78.4	0.0	78.4	78.4	0.0	35.7	0.0	29.2	0.0	11.9	0.0	0.6	0.0
JUL	77.0	77.0	0.0	77.0	77.0	0.0	33.3	0.0	15.0	0.0	11.5	0.0	0.2	0.0
AUG	73.4	73.4	0.0	73.4	73.4	0.0	32.3	0.0	12.4	0.0	11.3	0.0	0.0	0.0
SEP	68.9	68.9	0.0	68.9	68.9	0.0	29.9	0.0	11.0	0.0	11.5	0.0	0.0	0.0
OCT	59.6	59.6	0.0	59.6	59.6	0.0	27.6	0.0	11.8	0.0	11.2	0.0	0.0	0.0
NOV	44.7	44.7	0.0	44.7	44.7	0.0	22.2	0.0	3.6	0.0	10.2	0.0	0.0	0.0
DEC	37.7	37.7	0.0	37.7	37.7	0.0	18.3	0.0	0.0	0.0	9.1	0.0	0.0	0.0
ANNUAL	61.8	61.8	0.0	61.8	61.8	0.0	28.9	0.0	13.5	0.0	10.9	0.0	0.1	0.0

One LS-H report per glazed space — only five are shown here (one each for the ground floor glazed perimeter zones plus the top floor skylit core zone (others have been omitted for brevity))

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-H** Energy Reduction By Daylight South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

SPACE South Perim Space (G.S1)

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	65	85	88	90	90	90	90	89	86	72	0	0	0	0	0	0	0	77
FEB	0	0	0	0	0	0	0	82	90	90	90	90	90	90	90	90	86	8	0	0	0	0	0	0	81
MAR	0	0	0	0	0	0	33	88	90	90	90	90	90	90	90	90	90	64	0	0	0	0	0	0	84
APR	0	0	0	0	0	5	71	90	90	90	90	90	90	90	90	90	90	77	0	0	0	0	0	0	85
MAY	0	0	0	0	0	19	77	90	90	90	90	90	90	90	90	90	90	87	8	0	0	0	0	0	85
JUN	0	0	0	0	0	29	81	90	90	90	90	90	90	90	90	90	90	86	27	0	0	0	0	0	85
JUL	0	0	0	0	0	18	85	90	90	90	90	90	90	90	90	90	90	89	88	25	0	0	0	0	86
AUG	0	0	0	0	0	8	70	90	90	90	90	90	90	90	90	90	90	85	2	0	0	0	0	0	85
SEP	0	0	0	0	0	1	50	89	90	90	90	90	90	90	90	90	88	51	0	0	0	0	0	0	84
OCT	0	0	0	0	0	0	35	82	90	90	90	90	90	90	90	90	82	0	0	0	0	0	0	0	81
NOV	0	0	0	0	0	0	10	81	86	89	90	90	90	90	90	88	42	0	0	0	0	0	0	0	76
DEC	0	0	0	0	0	0	0	76	87	89	90	90	90	89	88	87	30	0	0	0	0	0	0	0	75
ANNUAL	0	0	0	0	0	7	64	86	89	90	90	90	90	90	90	89	75	21	5	0	0	0	0	0	82

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

For each daylit space this report gives the monthly lighting energy reduction due to daylighting for each hour of the day, and for all hours of the day combined (including nighttime operations hours, if any).

For this example case, 90% lighting reduction indicates daylight saturation since the daylight controller used in this example has a 10% minimum power input at minimum light output.

**** Important Report (Daylighting) ****

One LS-H report per space — only five are shown here (page 2 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-H** Energy Reduction By Daylight East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

SPACE East Perim Space (G.E2)

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	66	85	88	90	90	90	89	87	68	25	0	0	0	0	0	0	71	
FEB	0	0	0	0	0	0	0	82	90	90	90	90	90	90	89	84	61	3	0	0	0	0	0	78	
MAR	0	0	0	0	0	0	42	89	90	90	90	90	90	90	90	84	74	25	0	0	0	0	0	81	
APR	0	0	0	0	0	14	71	90	90	90	90	90	90	90	90	89	85	49	0	0	0	0	0	84	
MAY	0	0	0	0	0	35	80	90	90	90	90	90	90	90	90	90	90	77	8	0	0	0	0	85	
JUN	0	0	0	0	0	48	84	90	90	90	90	90	90	90	90	90	90	70	26	0	0	0	0	86	
JUL	0	0	0	0	0	43	87	90	90	90	90	90	90	90	90	90	89	84	25	0	0	0	0	86	
AUG	0	0	0	0	0	22	70	90	90	90	90	90	90	90	90	90	90	69	2	0	0	0	0	85	
SEP	0	0	0	0	0	1	50	89	90	90	90	90	90	90	90	90	86	28	0	0	0	0	0	83	
OCT	0	0	0	0	0	0	40	81	90	90	90	90	90	90	90	86	46	0	0	0	0	0	0	79	
NOV	0	0	0	0	0	0	16	81	86	89	90	90	90	90	88	73	14	0	0	0	0	0	0	72	
DEC	0	0	0	0	0	0	0	77	87	89	90	90	90	86	79	68	9	0	0	0	0	0	0	70	
ANNUAL	0	0	0	0	0	14	66	86	89	90	90	90	90	90	89	83	56	11	5	0	0	0	0	80	

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

One LS-H report per space — only five are shown here (page 3 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-H** Energy Reduction By Daylight North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

SPACE North Perim Space (G.N3)

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	21	63	84	87	90	90	89	86	68	27	0	0	0	0	0	0	0	67
FEB	0	0	0	0	0	0	0	48	79	89	90	90	90	90	89	85	65	4	0	0	0	0	0	0	76
MAR	0	0	0	0	0	0	21	84	88	89	90	90	90	90	90	88	88	32	0	0	0	0	0	0	82
APR	0	0	0	0	0	5	66	90	90	90	90	90	90	90	90	90	90	67	0	0	0	0	0	0	84
MAY	0	0	0	0	0	25	76	90	90	90	90	90	90	90	90	90	90	86	13	0	0	0	0	0	85
JUN	0	0	0	0	0	39	81	90	90	90	90	90	90	90	90	90	90	86	41	0	0	0	0	0	85
JUL	0	0	0	0	0	27	84	90	90	90	90	90	90	90	90	90	89	88	38	0	0	0	0	0	86
AUG	0	0	0	0	0	10	70	90	90	90	90	90	90	90	90	90	90	83	2	0	0	0	0	0	85
SEP	0	0	0	0	0	1	47	89	90	90	90	90	90	90	90	90	88	39	0	0	0	0	0	0	83
OCT	0	0	0	0	0	0	22	79	90	90	90	90	90	90	90	88	53	0	0	0	0	0	0	0	79
NOV	0	0	0	0	0	0	4	56	79	89	90	90	90	90	87	75	15	0	0	0	0	0	0	0	71
DEC	0	0	0	0	0	0	0	25	69	85	87	89	89	85	78	68	10	0	0	0	0	0	0	0	65
ANNUAL	0	0	0	0	0	9	61	78	84	89	90	90	90	89	88	84	60	14	8	0	0	0	0	0	79

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

One LS-H report per space — only five are shown here (page 4 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-H** Energy Reduction By Daylight West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

SPACE West Perim Space (G.W4)

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	20	63	85	88	90	90	90	88	86	73	0	0	0	0	0	0	0	73
FEB	0	0	0	0	0	0	0	42	76	89	90	90	90	90	90	90	86	13	0	0	0	0	0	0	78
MAR	0	0	0	0	0	0	17	73	85	89	90	90	90	90	90	90	90	76	0	0	0	0	0	0	83
APR	0	0	0	0	0	4	56	85	89	90	90	90	90	90	90	90	90	80	0	0	0	0	0	0	83
MAY	0	0	0	0	0	18	74	90	90	90	90	90	90	90	90	90	90	89	30	0	0	0	0	0	85
JUN	0	0	0	0	0	29	80	90	90	90	90	90	90	90	90	90	90	89	76	0	0	0	0	0	86
JUL	0	0	0	0	0	18	81	90	90	90	90	90	90	90	90	90	89	88	72	0	0	0	0	0	86
AUG	0	0	0	0	0	7	64	90	90	90	90	90	90	90	90	90	90	87	5	0	0	0	0	0	84
SEP	0	0	0	0	0	1	40	89	90	90	90	90	90	90	90	90	88	67	0	0	0	0	0	0	83
OCT	0	0	0	0	0	0	19	75	90	90	90	90	90	90	90	90	84	1	0	0	0	0	0	0	80
NOV	0	0	0	0	0	0	4	54	80	89	90	90	90	90	90	88	52	0	0	0	0	0	0	0	75
DEC	0	0	0	0	0	0	0	24	69	86	88	90	90	89	88	87	41	0	0	0	0	0	0	0	71
ANNUAL	0	0	0	0	0	6	57	76	84	89	90	90	90	90	90	89	78	24	15	0	0	0	0	0	81

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

One LS-H report per space — only five are shown here (page 5 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-H** Energy Reduction By Daylight Core Space (T.C17)

WEATHER FILE- CZ06RV2 WYEC2

SPACE Core Space (T.C17)

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	8	27	43	54	61	62	55	44	29	10	0	0	0	0	0	0	0	38
FEB	0	0	0	0	0	0	0	18	38	58	71	76	75	72	64	45	26	1	0	0	0	0	0	0	52
MAR	0	0	0	0	0	0	8	34	59	74	81	83	83	77	69	55	34	10	0	0	0	0	0	0	62
APR	0	0	0	0	0	2	25	50	74	82	87	89	88	84	77	68	45	20	0	0	0	0	0	0	71
MAY	0	0	0	0	0	8	38	70	86	89	90	90	90	87	81	72	55	33	3	0	0	0	0	0	77
JUN	0	0	0	0	0	13	42	72	87	90	90	90	90	89	83	75	58	32	10	0	0	0	0	0	78
JUL	0	0	0	0	0	7	41	67	81	88	90	90	90	89	84	75	59	40	10	0	0	0	0	0	77
AUG	0	0	0	0	0	3	29	55	81	85	89	90	90	85	79	71	52	29	1	0	0	0	0	0	73
SEP	0	0	0	0	0	0	18	50	78	84	88	88	88	81	71	58	38	10	0	0	0	0	0	0	69
OCT	0	0	0	0	0	0	8	36	64	79	83	83	81	74	63	43	18	0	0	0	0	0	0	0	60
NOV	0	0	0	0	0	0	1	21	39	57	67	69	69	64	48	30	5	0	0	0	0	0	0	0	45
DEC	0	0	0	0	0	0	0	10	30	46	58	64	62	53	37	26	3	0	0	0	0	0	0	0	38
ANNUAL	0	0	0	0	0	3	28	48	63	73	79	81	81	76	66	54	29	5	2	0	0	0	0	0	62

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

One LS-I report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-I** Energy Reduction By Daylight Building

WEATHER FILE- CZ06RV2 WYEC2

*** BUILDING ***

MONTH	HOUR OF DAY																								ALL HOURS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
JAN	0	0	0	0	0	0	0	23	42	51	54	56	56	54	52	44	27	0	0	0	0	0	0	0	44
FEB	0	0	0	0	0	0	0	37	49	55	57	58	58	58	56	52	43	4	0	0	0	0	0	0	49
MAR	0	0	0	0	0	0	12	48	55	58	59	59	59	58	57	54	49	28	0	0	0	0	0	0	53
APR	0	0	0	0	0	3	38	53	58	59	60	60	60	60	58	57	52	28	0	0	0	0	0	0	55
MAY	0	0	0	0	0	10	45	57	60	61	61	61	61	60	59	58	54	37	6	0	0	0	0	0	57
JUN	0	0	0	0	0	15	48	58	60	61	61	61	61	61	60	58	55	36	17	0	0	0	0	0	57
JUL	0	0	0	0	0	11	50	57	59	60	61	61	61	60	60	58	55	39	16	0	0	0	0	0	57
AUG	0	0	0	0	0	4	39	55	59	60	61	61	61	60	59	57	54	35	1	0	0	0	0	0	56
SEP	0	0	0	0	0	0	27	54	59	60	60	60	60	59	57	55	50	18	0	0	0	0	0	0	55
OCT	0	0	0	0	0	0	16	46	56	59	59	60	59	58	56	52	38	0	0	0	0	0	0	0	52
NOV	0	0	0	0	0	0	3	38	49	54	57	57	57	56	53	47	17	0	0	0	0	0	0	0	46
DEC	0	0	0	0	0	0	0	27	45	52	55	56	56	53	49	44	12	0	0	0	0	0	0	0	43
ANNUAL	0	0	0	0	0	4	37	49	54	57	59	59	59	58	56	53	39	8	3	0	0	0	0	0	52

PERCENT LIGHTING ENERGY REDUCTION BY DAYLIGHT

NOTE- THE ENTRIES IN THIS REPORT ARE NOT SUBJECT TO THE DAYLIGHTING REPORT SCHEDULE

One LS-J report per glazed space — only five are shown here (one each for the ground floor glazed perimeter zones plus the top floor skylit core zone (others have been omitted for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-J** Daylight Illuminance Frequency South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

SPACE South Perim Space (G.S1)

PERCENT OF HOURS IN ILLUMINANCE RANGE

PERCENT OF HOURS ILLUMINANCE LEVEL EXCEEDED

MONTH	REF PT	ILLUMINANCE RANGE (FOOTCANDLES)										ILLUMINANCE LEVEL (FOOTCANDLES)							
		0	10	20	30	40	50	60	70	80	ABOVE	0	10	20	30	40	50	60	70	80
JAN	-1-	10	2	1	2	5	3	6	4	67	100	90	88	87	84	79	76	71	67
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEB	-1-	14	3	1	1	2	1	2	2	74	100	86	82	82	81	79	78	76	74
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAR	-1-	7	5	2	3	5	2	2	2	73	100	93	87	86	83	78	77	75	73
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APR	-1-	14	1	3	1	0	3	2	5	71	100	86	85	81	81	80	78	76	71
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAY	-1-	14	3	1	4	1	1	4	10	62	100	86	83	82	78	77	76	72	62
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUN	-1-	14	7	2	4	0	3	6	9	55	100	86	79	77	73	73	70	64	55
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUL	-1-	13	7	0	2	1	0	3	8	65	100	87	79	79	77	76	76	73	65
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUG	-1-	13	1	3	0	1	1	1	2	77	100	87	85	82	82	81	79	79	77
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEP	-1-	12	5	2	2	3	1	2	2	69	100	88	83	81	79	75	74	72	69
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	-1-	14	1	2	3	2	1	3	1	72	100	86	85	83	80	78	77	74	72
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOV	-1-	7	4	8	2	1	3	1	3	72	100	93	89	82	80	79	76	75	72
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEC	-1-	9	4	5	3	2	2	3	5	67	100	91	87	83	79	77	75	72	67
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANNUAL	-1-	12	4	2	2	2	2	3	5	68	100	88	84	82	79	78	76	73	68
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE- THE HOURS CONSIDERED IN THIS REPORT ARE THOSE WITH SUN UP AND DAYLIGHTING REPORT SCHEDULE ON

**** Important Report (Daylighting) ****

One LS-J report per space — only five are shown here (page 2 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-J** Daylight Illuminance Frequency East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

SPACE East Perim Space (G.E2)

PERCENT OF HOURS IN ILLUMINANCE RANGE

PERCENT OF HOURS ILLUMINANCE LEVEL EXCEEDED

MONTH	REF PT	ILLUMINANCE RANGE (FOOTCANDLES)											ILLUMINANCE LEVEL (FOOTCANDLES)														
		0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	-ABOVE	0	10	20	30	40	50	60	70	80
JAN	-1-	13		6		2		9		15		9		6		7		34	100	87	81	79	70	55	46	40	34
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
FEB	-1-	17		2		3		5		9		8		8		3		45	100	83	81	78	73	64	56	48	45
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
MAR	-1-	8		8		2		7		9		8		8		6		44	100	92	83	81	74	66	58	50	44
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
APR	-1-	12		2		7		4		6		9		7		5		48	100	88	85	78	75	68	60	53	48
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
MAY	-1-	14		2		1		6		8		7		6		6		51	100	86	85	84	78	69	62	56	51
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
JUN	-1-	14		6		0		8		5		7		6		5		49	100	86	80	80	72	67	60	54	49
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
JUL	-1-	12		6		1		3		7		9		8		7		48	100	88	82	81	78	71	63	55	48
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
AUG	-1-	11		2		4		6		6		9		8		6		49	100	89	88	84	78	72	63	55	49
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
SEP	-1-	13		6		3		1		8		14		6		7		41	100	87	80	78	77	69	55	49	41
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
OCT	-1-	13		4		3		4		8		9		11		6		41	100	87	82	79	74	67	58	47	41
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
NOV	-1-	13		4		3		9		9		11		8		5		38	100	87	83	80	71	62	52	43	38
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
DEC	-1-	17		1		2		12		13		6		8		6		34	100	83	82	80	67	55	48	40	34
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
ANNUAL	-1-	13		4		3		6		8		9		7		6		44	100	87	83	80	74	66	57	50	44
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0

NOTE- THE HOURS CONSIDERED IN THIS REPORT ARE THOSE WITH SUN UP AND DAYLIGHTING REPORT SCHEDULE ON

One LS-J report per space — only five are shown here (page 3 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-J** Daylight Illuminance Frequency North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

SPACE North Perim Space (G.N3)

PERCENT OF HOURS IN ILLUMINANCE RANGE

PERCENT OF HOURS ILLUMINANCE LEVEL EXCEEDED

MONTH	REF PT	ILLUMINANCE RANGE (FOOTCANDLES)										ILLUMINANCE LEVEL (FOOTCANDLES)																
		0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	-ABOVE	0	10	20	30	40	50	60	70	80
JAN	-1-	15		11		4		17		28		18		2		2		4		100	85	74	70	53	25	8	5	4
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
FEB	-1-	16		4		7		9		18		20		10		3		13		100	84	80	73	64	46	26	17	13
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
MAR	-1-	9		9		2		4		19		19		14		4		20		100	91	82	80	76	57	38	24	20
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
APR	-1-	14		2		5		4		4		13		18		12		29		100	86	85	80	76	72	59	41	29
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
MAY	-1-	13		3		1		5		1		2		10		20		43		100	87	84	83	78	76	74	64	43
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
JUN	-1-	13		3		4		5		2		1		13		14		44		100	87	83	80	74	73	72	58	44
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
JUL	-1-	12		3		5		3		1		1		7		25		43		100	88	85	79	77	76	75	68	43
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
AUG	-1-	12		3		3		1		2		5		17		30		27		100	88	85	82	81	79	74	57	27
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
SEP	-1-	12		6		2		3		4		7		23		18		23		100	88	82	79	76	72	65	41	23
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
OCT	-1-	15		5		3		5		8		19		16		6		23		100	85	80	77	72	63	44	29	23
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
NOV	-1-	15		4		6		12		23		19		7		5		10		100	85	81	75	63	40	22	15	10
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
DEC	-1-	17		8		5		23		21		12		5		4		5		100	83	75	70	47	27	14	9	5
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0
ANNUAL	-1-	13		5		4		7		10		10		12		13		25		100	87	82	78	71	61	51	38	25
	-2-	0		0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0

NOTE- THE HOURS CONSIDERED IN THIS REPORT ARE THOSE WITH SUN UP AND DAYLIGHTING REPORT SCHEDULE ON

One LS-J report per space — only five are shown here (page 4 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-J** Daylight Illuminance Frequency West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

SPACE West Perim Space (G.W4)

PERCENT OF HOURS IN ILLUMINANCE RANGE

PERCENT OF HOURS ILLUMINANCE LEVEL EXCEEDED

MONTH	REF PT	ILLUMINANCE RANGE (FOOTCANDLES)											ILLUMINANCE LEVEL (FOOTCANDLES)														
		0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	-ABOVE	0	10	20	30	40	50	60	70	80
JAN	-1-	14		5		3		7		16		8		7		7		32	100	86	81	78	71	55	47	40	32
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
FEB	-1-	12		8		4		7		8		8		8		7		38	100	88	80	76	69	62	54	46	38
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
MAR	-1-	10		2		3		5		9		5		7		7		51	100	90	87	84	79	70	65	58	51
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
APR	-1-	14		1		5		3		5		8		5		4		55	100	86	84	80	77	72	64	60	55
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
MAY	-1-	11		3		2		5		3		3		5		4		63	100	89	86	84	79	75	72	67	63
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
JUN	-1-	14		2		2		4		3		6		5		4		62	100	86	85	83	79	76	70	66	62
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
JUL	-1-	12		3		0		3		3		8		7		7		56	100	88	85	84	81	78	70	63	56
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
AUG	-1-	13		1		3		2		5		7		5		6		57	100	87	86	82	80	76	69	64	57
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
SEP	-1-	11		5		3		2		3		5		5		9		56	100	89	84	81	79	76	71	66	56
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
OCT	-1-	15		3		1		4		4		7		6		4		56	100	85	81	81	77	73	66	60	56
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
NOV	-1-	10		2		7		9		7		12		8		7		38	100	90	88	82	72	65	53	45	38
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
DEC	-1-	11		7		7		9		13		6		7		3		37	100	89	82	75	66	53	47	40	37
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0
ANNUAL	-1-	12		3		3		5		6		7		6		6		51	100	88	84	81	76	70	63	57	51
	-2-	0		0		0		0		0		0		0		0		0	0	0	0	0	0	0	0	0	0

NOTE- THE HOURS CONSIDERED IN THIS REPORT ARE THOSE WITH SUN UP AND DAYLIGHTING REPORT SCHEDULE ON

One LS-J report per space — only five are shown here (page 5 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-J** Daylight Illuminance Frequency Core Space (T.C17)

WEATHER FILE- CZ06RV2 WYEC2

SPACE Core Space (T.C17)

PERCENT OF HOURS IN ILLUMINANCE RANGE

PERCENT OF HOURS ILLUMINANCE LEVEL EXCEEDED

MONTH	REF PT	ILLUMINANCE RANGE (FOOTCANDLES)										ILLUMINANCE LEVEL (FOOTCANDLES)								
		0	10	20	30	40	50	60	70	80	-ABOVE	0	10	20	30	40	50	60	70	80
JAN	-1-	27	23	37	10	4	0	0	0	0	0	100	73	50	13	4	0	0	0	0
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEB	-1-	24	18	18	24	9	6	1	0	0	100	76	58	40	15	7	1	0	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAR	-1-	21	15	15	26	10	7	5	1	0	100	79	65	50	23	13	6	1	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APR	-1-	20	12	11	18	20	8	8	2	0	100	80	68	56	38	19	11	2	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAY	-1-	18	11	9	16	17	12	8	6	2	100	82	70	62	46	29	17	8	2	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUN	-1-	23	8	10	14	16	10	10	8	1	100	77	69	59	45	29	20	9	1	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUL	-1-	21	6	12	19	27	6	5	4	0	100	79	73	61	42	15	9	4	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUG	-1-	15	14	11	20	28	6	4	2	0	100	85	72	61	41	12	6	2	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEP	-1-	23	7	15	22	22	7	3	1	0	100	77	70	55	33	11	4	1	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	-1-	24	12	13	26	13	9	3	0	0	100	76	63	51	24	12	3	0	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOV	-1-	22	22	28	17	7	4	0	0	0	100	78	56	28	11	4	0	0	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEC	-1-	26	29	30	9	5	0	0	0	0	100	74	45	15	5	0	0	0	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANNUAL	-1-	22	14	17	19	16	7	4	2	0	100	78	64	48	29	14	7	3	0	
	-2-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE- THE HOURS CONSIDERED IN THIS REPORT ARE THOSE WITH SUN UP AND DAYLIGHTING REPORT SCHEDULE ON

One LS-K report per space & one whole-building — only two are shown here (one example space plus the building, others have been omitted for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LS-K Space Input Fuels Summary

South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

SPACE South Perim Space (G.S1)

MONTH	- - - - L I G H T I N G - - - -		E Q U I P M E N T	- - - - - P R O C E S S - - - - -		
	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	21.14	132.95	494.14	0.00	0.0000	0.0000
FEB	18.35	101.40	433.31	0.00	0.0000	0.0000
MAR	21.31	101.79	506.15	0.00	0.0000	0.0000
APR	20.21	92.39	473.86	0.00	0.0000	0.0000
MAY	21.14	94.47	494.14	0.00	0.0000	0.0000
JUN	20.38	91.26	485.88	0.00	0.0000	0.0000
JUL	20.21	88.63	473.86	0.00	0.0000	0.0000
AUG	22.07	100.62	514.41	0.00	0.0000	0.0000
SEP	18.52	91.88	445.32	0.00	0.0000	0.0000
OCT	21.14	112.68	494.14	0.00	0.0000	0.0000
NOV	19.28	127.64	453.59	0.00	0.0000	0.0000
DEC	19.45	136.87	465.60	0.00	0.0000	0.0000
	-----	-----	-----	-----	-----	-----
ANNUAL	243.20	1272.52	5734.22	0.00	0.0000	0.0000

One LS-K report per space & one whole-building — only two are shown here (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- LS-K Building Input Fuels Summary

WEATHER FILE- CZ06RV2 WYEC2

BUILDING

MONTH	L I G H T I N G		E Q U I P M E N T	P R O C E S S		
	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	1149.42	6983.26	12077.56	0.00	0.0000	0.0000
FEB	997.78	5593.17	10595.82	0.00	0.0000	0.0000
MAR	1158.78	6123.60	12380.71	0.00	0.0000	0.0000
APR	1098.87	5525.90	11583.66	0.00	0.0000	0.0000
MAY	1149.42	5618.44	12077.56	0.00	0.0000	0.0000
JUN	1108.23	5460.12	11886.80	0.00	0.0000	0.0000
JUL	1098.87	5365.45	11583.65	0.00	0.0000	0.0000
AUG	1199.96	5945.46	12571.47	0.00	0.0000	0.0000
SEP	1007.14	5235.13	10898.98	0.00	0.0000	0.0000
OCT	1149.42	6170.06	12077.57	0.00	0.0000	0.0000
NOV	1048.33	6222.85	11089.73	0.00	0.0000	0.0000
DEC	1057.69	6643.78	11392.89	0.00	0.0000	0.0000
ANNUAL	13222.35	70878.40	140156.28	0.00	0.0000	0.0000

One LS-L report per glazed space — only five are shown here (one each for the ground floor glazed perimeter zones plus the top floor skylit core zone (others have been omitted for brevity))

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-L** Management and Solar Summary South Perim Space (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE South Perim Space (G.S1)

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	0.	191827.188	34269.672
FEB	0.	162006.984	30081.234
MAR	0.	121466.828	21808.434
APR	0.	74322.094	11992.355
MAY	0.	70842.148	11158.893
JUN	0.	68242.445	10038.264
JUL	0.	66951.555	9924.578
AUG	0.	70287.398	11265.102
SEP	0.	77344.703	12352.869
OCT	0.	112011.953	20251.238
NOV	0.	154505.641	28799.945
DEC	0.	178426.281	33551.418

ANNUAL	0.	112150.094	34269.672

Column 1 is the number of hours that window shade management would be employed in the space for each month.

Management is employed under any of the following conditions:

- The shading schedule for an exterior window specifies management.
- If the transmitted direct solar gain through an exterior window exceeds a pre-specified value, MAX-SOLAR-SCH, then shades will be in effect with a probability of SUN-CTRL-PROB.
- If daylighting is requested (DAYLIGHTING=YES) and the daylight glare exceeds a pre-specified value MAX-GLARE, then the shades will be in effect.

Column 2 is the average solar radiation into the space through all glazing areas (Btu per day).

Column 3 is the maximum solar radiation into the space through all glazing areas for all hours in the month (Btu per hour).

Important Note:

Note that the entries in this report are solar heat gains, not solar loads; i.e., weighting factors to convert heat gains into delayed loads have not been applied.

One LS-L report per space — only five are shown here (page 2 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-L** Management and Solar Summary East Perim Space (G.E2)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE East Perim Space (G.E2)

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	0.	49364.359	19418.023
FEB	0.	61899.156	21574.289
MAR	0.	69797.172	26478.418
APR	0.	78551.242	26213.355
MAY	0.	68332.320	23423.201
JUN	0.	68212.039	21861.305
JUL	0.	73871.156	20706.711
AUG	0.	72656.492	21772.592
SEP	0.	54749.164	21720.738
OCT	0.	49189.316	18439.598
NOV	0.	45619.676	15566.069
DEC	0.	41749.738	15470.636

ANNUAL	0.	61153.141	26478.418

One LS-L report per space — only five are shown here (page 3 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-L** Management and Solar Summary North Perim Space (G.N3)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE North Perim Space (G.N3)

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	0.	27270.828	4794.873
FEB	0.	35337.883	6116.467
MAR	0.	44553.234	6941.558
APR	0.	53994.086	7420.953
MAY	0.	64496.246	7863.993
JUN	0.	69821.906	8145.917
JUL	0.	65241.918	7783.005
AUG	0.	56243.996	7432.146
SEP	0.	47768.637	7060.106
OCT	0.	39237.230	6445.047
NOV	0.	30317.670	5558.333
DEC	0.	26040.002	4811.150
ANNUAL	0.	46745.566	8145.917

One LS-L report per space — only five are shown here (page 4 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-L** Management and Solar Summary West Perim Space (G.W4)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE West Perim Space (G.W4)

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	0.	51197.207	19226.805
FEB	0.	60415.246	22138.861
MAR	0.	84436.063	26171.527
APR	0.	90258.844	26580.305
MAY	0.	96811.977	25046.668
JUN	0.	97682.891	23487.025
JUL	0.	95068.258	22946.318
AUG	0.	87109.094	23828.025
SEP	0.	78431.836	22780.684
OCT	0.	63081.375	20586.527
NOV	0.	49646.301	18019.021
DEC	0.	44595.676	15526.598

ANNUAL	0.	74968.594	26580.305

One LS-L report per space — only five are shown here (page 5 of 5)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **LS-L** Management and Solar Summary Core Space (T.C17)

WEATHER FILE- CZ06RV2 WYEC2

DATA FOR SPACE Core Space (T.C17)

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	0.	99468.164	21911.686
FEB	0.	134776.766	27946.164
MAR	0.	183912.125	32458.596
APR	0.	216042.609	35825.160
MAY	0.	243158.828	37453.309
JUN	0.	242045.781	37479.281
JUL	0.	263041.750	37093.527
AUG	0.	242694.156	36150.129
SEP	0.	200010.172	33679.777
OCT	0.	144938.453	28569.092
NOV	0.	107217.727	23836.154
DEC	0.	89093.953	18806.303
ANNUAL	0.	180791.172	37479.281

MESSAGE LIST FROM SYSTEMS PROGRAM

```
**WARNING*****  
Pump: CW Loop Pump      has a user-specified head  
of      50. feet, but the loop head is      62. feet.
```

Always search the SIM file for WARNING messages. In the event of a crash (run-time error), always check the SIM file for ERROR messages... it's usually the last thing written to the SIM file.

One SV-A report per SYSTEM (seven for this example building, system 1 of 7) — Ground Floor VAV system

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 1 (VAVS) (G) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	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)
VAVS	1.000	13000.0	96.	0.214	271.497	0.702	0.000	0.000	0.000	0.000

For DX equipment only. EIR at ARI rated conditions. EIR = 1/COP.

Based on Altitude (in eQUEST Detailed Interface, see Project & Site: Site Data) See also note below.

Total for ALL zone types served by this system (plenums must = 0 occupancy.

Ignores occupancy schedule values

= sum of Zone OA + excess zone exhaust + adj for critical zone (if appl.)

Total (sensible +latent) cap., at ARI (DX or design CHW) conditions.

Sensible / total capacity,

Central heating coil only, does not include zone-level heating coils (e.g., reheat or baseboards)

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	7562.	1.00	4.931	2.02	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30
RETURN	7562.	1.00	1.644	0.67	1.2	0.63	0.70	RETURN	BY USER	1.10	0.30

Total supply flow is always the sum of zone design supply flows, i.e., no diversity for VAV systems (unless only one system in the bldg.)

Two methods for fan pwr: Static pres & fan eff. OR fan kW/CFM. If use static pressure, fan kW = (CFM * fan static / fan eff) / 8520, else, enter fan pwr directly (as kW/cfm and fan delta-t).

Total Eff = Mechanical Eff * fan motor eff (not shown)

eQUEST uses fan power curves based on CEC data (not DOE-2 defaults)

~1.08 * CFM * (Max-Supply-T - Design-Heat-T) * Supply Ratio (for reverse-acting t-stats, Supply Ratio = 1, else = min-cfm-ratio)

↑ Items reported above are system-level

↓ Items reported below are zone-level

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
South Perim Zone (G.S1)	863.	0.	0.000	0.250	179.	0.00	0.00	18.63	-27.95	-12.11	1.
East Perim Zone (G.E2)	1195.	0.	0.000	0.250	132.	0.00	0.00	25.81	-38.72	-16.78	1.
North Perim Zone (G.N3)	863.	0.	0.000	0.250	179.	0.00	0.00	18.63	-27.95	-12.11	1.
West Perim Zone (G.W4)	1142.	0.	0.000	0.250	132.	0.00	0.00	24.68	-37.02	-16.04	1.
Core Zone (G.C5)	3500.	0.	0.000	0.400	994.	0.00	0.00	75.60	-113.40	-49.14	1.
Plenum Zone (G.6)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

Important Note:

All CFM input into eQUEST (DOE-2) are input as standard (i.e., sea-level) CFM. All CFM reported in eQUEST (DOE-2) are reported as site CFM, i.e., at site altitude. To obtain standard CFM, divide site CFM reported here by the Altitude Factor above.

If sized by eQUEST, total supply flow = sum of zone flows. To force supply flow < sum of zone flows, enter Assigned-Flow & Supply-Flow.

If zone exhaust CFM > zone OA, the OA Ratio at the system level is increased.

No zonal fans in this example

If zone exhaust flow is > zone oa, system oa is increased to assure the necessary make-up air.

Reported for zonal systems only (no zone-level cooling coils in this example).

~1.08*CFM* (Design-Cool-T - Min-Supply-T)

Reported for zonal systems only (re-heat coils in this example). ~1.08*CFM*ReheatΔT *Supply Ratio (=1 for reverse-acting t-stats, else = min-cfm-ratio)

Space MULT * Floor MULT

**** Important Report ****

One SV-A report per SYSTEM (system 2 of 7) — Second (Middle) Floor VAV system

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 1 (VAVS) (M) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	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)
VAVS	1.000	13000.0	107.	0.211	291.173	0.702	0.000	0.000	0.000	0.000

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	8109.	1.00	5.288	2.02	3.5	0.63	0.72	DRAW-THRU	BY USER	1.10	0.30
RETURN	8109.	1.00	1.763	0.67	1.2	0.63	0.70	RETURN	BY USER	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
South Perim Zone (M.S7)	965.	0.	0.000	0.250	182.	0.00	0.00	20.84	-31.26	-13.55	1.
East Perim Zone (M.E8)	1349.	0.	0.000	0.250	135.	0.00	0.00	29.13	-43.70	-18.93	1.
North Perim Zone (M.N9)	955.	0.	0.000	0.250	182.	0.00	0.00	20.63	-30.94	-13.41	1.
West Perim Zone (M.W10)	1341.	0.	0.000	0.250	135.	0.00	0.00	28.96	-43.44	-18.82	1.
Core Zone (M.C11)	3500.	0.	0.000	0.400	1079.	0.00	0.00	75.60	-113.40	-49.14	1.
Plenum Zone (M.12)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SV-A report per SYSTEM (system 3 of 7) — Third (Top) Floor, South Zone Package Single Zone (PSZ) system

3-Story Office Bldg DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 2 (PSZ) (T.S13) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	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)
PSZ	1.000	1725.0	10.	0.189	33.557	0.660	-40.504	0.416	0.345	-44.802

FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	965.	1.00	0.267	0.86	1.3	0.53	0.62	DRAW-THRU	CONSTANT	1.10	0.30

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
South Perim Zone (T.S13)	965.	0.	0.000	1.000	182.	0.00	0.00	20.84	0.00	17.72	1.
South Perim Plenum Zone (1	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SV-A report per SYSTEM (system 4 of 7) — Third (Top) Floor, East Zone Package Single Zone (PSZ) system

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 2 (PSZ) (T.E14) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	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)	
PSZ	1.000	1275.0	8.	0.100	41.034	0.703	-49.529	0.416	0.345	-55.311	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1349.	1.00	0.373	0.86	1.3	0.53	0.62	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
East Perim Zone (T.E14)	1349.	0.	0.000	1.000	135.	0.00	0.00	29.13	0.00	24.76	1.
East Perim Plenum Zone (T9)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SV-A report per SYSTEM (system 5 of 7) — Third (Top) Floor, North Zone Package Single Zone (PSZ) system

3-Story Office Bldg DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 2 (PSZ) (T.N15) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPPP-HEAT (KBTU/HR)	
PSZ	1.000	1725.0	10.	0.191	32.977	0.662	-39.805	0.416	0.345	-44.448	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	955.	1.00	0.264	0.86	1.3	0.53	0.62	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
North Perim Zone (T.N15)	955.	0.	0.000	1.000	182.	0.00	0.00	20.63	0.00	17.53	1.
North Perim Plenum Zone (2	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SV-A report per SYSTEM (system 6 of 7) — Third (Top) Floor, West Zone Package Single Zone (PSZ) system

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 2 (PSZ) (T.W16) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	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)	
PSZ	1.000	1275.0	8.	0.101	40.041	0.709	-48.331	0.416	0.345	-55.035	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	1341.	1.00	0.371	0.86	1.3	0.53	0.62	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
West Perim Zone (T.W16)	1341.	0.	0.000	1.000	135.	0.00	0.00	28.96	0.00	24.62	1.
West Perim Plenum Zone (T1)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SV-A report per SYSTEM (system 7 of 7) — Third (Top) Floor, Core Zone Package Single Zone (PSZ) system

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SV-A** System Design Parameters for System 2 (PSZ) (T.C17) WEATHER FILE- CZ06RV2 WYEC2

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPPP-HEAT (KBTU/HR)	
PSZ	1.000	7000.0	71.	0.308	126.770	0.651	-153.016	0.416	0.345	-172.877	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)
SUPPLY	3500.	1.00	0.969	0.86	1.3	0.53	0.62	DRAW-THRU	CONSTANT	1.10	0.30
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	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)	ZONE MULT
Core Zone (T.C17)	3500.	0.	0.000	1.000	1079.	0.00	0.00	75.60	0.00	64.26	1.
Core Plenum Zone (T.C22)	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

One SS-D report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-D** Building HVAC Load Summary

WEATHER FILE- CZ06RV2 WYEC2

Sensible+Latent

MONTH	C O O L I N G						H E A T I N G						E L E C	
	COOLING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	21.72392	11	13	78.F	54.F	354.041	-1.736	2	9	51.F	46.F	-497.692	22116.	98.679
FEB	24.85833	13	16	70.F	55.F	361.034	-0.233	5	9	54.F	51.F	-20.692	18924.	93.166
MAR	28.42772	16	13	75.F	61.F	390.949	-0.234	24	10	57.F	54.F	-9.862	21737.	91.375
APR	31.33976	4	17	81.F	52.F	430.741	-0.146	30	11	61.F	53.F	-7.640	20420.	95.302
MAY	58.57369	31	14	72.F	66.F	517.425	-0.121	26	10	62.F	57.F	-9.391	22201.	94.822
JUN	90.54893	20	14	84.F	74.F	684.319	-0.065	2	10	59.F	55.F	-6.253	23003.	102.334
JUL	103.67539	11	10	82.F	70.F	612.783	-0.039	3	8	58.F	56.F	-2.196	23236.	103.320
AUG	116.64235	7	10	80.F	67.F	599.605	-0.037	22	8	59.F	57.F	-2.042	25519.	101.127
SEP	94.19563	7	17	79.F	71.F	683.036	-0.043	27	8	55.F	53.F	-2.620	21828.	104.272
OCT	76.96026	1	14	85.F	73.F	657.055	-0.105	29	11	65.F	50.F	-6.885	23366.	101.493
NOV	43.97081	2	16	69.F	62.F	435.737	-0.220	13	9	56.F	51.F	-12.469	20947.	109.714
DEC	21.03675	19	15	77.F	53.F	396.410	-0.751	31	9	54.F	45.F	-92.008	20965.	106.311
TOTAL	711.955						-3.730						264267.	
MAX						684.319						-497.692		109.714

"MBTU" = Btu x 1,000,000

MAXIMUM DAILY INTEGRATED COOLING LOAD (DES DAY) 0.000 (KBTU)
 MAXIMUM DAILY INTEGRATED COOLING LOAD (WTH FILE) 3951.138 (KBTU)

Important Note:
 Loads reported here are coil loads, i.e., these loads include outside ventilation air, duct loss/gain, fan heat, and economizer effects (if any). SS-D reports building total coil loads, i.e., unitary + built-up equipment.

Useful for TES sizing. See SS-J for system-level 24-hour profiles of this same information.

Reports central coils, zone coils, and baseboards

These whole-building totals (peak and annual) are also reported on the PS-D for CHW/HW coil loads.

Includes only items known about by the LOADS and SYSTEMS programs, i.e., lights, plugs, fans, DX compressors, reheat, crankcase heat, etc., for the whole building Central plant electric is included on "PS-" reports.

**** Important Report ****

One SS-E report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-E** Building HVAC Load Hours

WEATHER FILE- CZ06RV2 WYEC2

IMPORTANT NOTE: If a fan system runs for only part of an hour, one hour is still logged for this report.

For a system-level report of operations hours (one report for each system), see SS-C.

----- N U M B E R O F H O U R S -----

MONTH	HOURS COOLING LOAD (1)	HOURS HEATING LOAD (2)	HOURS COINCIDENT COOL-HEAT LOAD (3)	HOURS FLOATING (4)	HOURS HEATING AVAIL. (5)	HOURS COOLING AVAIL. (6)	HOURS FANS ON (7)	HOURS FANS CYCLE ON (8)	HOURS NIGHT VENTING (9)	HOURS FLOATING WHEN FANS ON (10)	HEATING LOAD AT COOLING PEAK (KBTU/HR) (11)	ELECTRIC LOAD AT COOLING PEAK (KW) (12)
JAN	183	125	51	487	744	744	274	0	0	17	0.000	88.369
FEB	173	76	31	454	672	672	241	0	0	23	0.000	93.131
MAR	202	75	26	493	744	744	282	0	0	31	0.000	88.639
APR	202	56	20	482	720	720	263	0	0	25	0.000	95.302
MAY	234	49	20	481	744	744	274	0	0	11	0.000	93.774
JUN	251	34	16	451	720	720	271	0	0	2	0.000	102.334
JUL	249	25	11	481	744	744	263	0	0	0	0.000	100.422
AUG	280	27	22	459	744	744	285	0	0	0	0.000	100.548
SEP	239	26	16	471	720	720	249	0	0	0	0.000	104.272
OCT	244	44	24	480	744	744	274	0	0	10	0.000	101.115
NOV	203	63	31	485	720	720	252	0	0	17	0.000	95.022
DEC	180	117	53	500	744	744	260	0	0	16	0.000	95.902
ANNUAL	2640	717	321	5724	8760	8760	3188	0	0	152		

For comments on each SS-E report column see notes below, by column number.

(1) and (2) ← Hrs in Htg and/or Clg mode during fan operations (includes htg/clg during night cycle control hrs, if any)

(3) ← Large number of coincident htg/clg hours, especially in summer, may indicate overcooling and excessive reheat

(4) ← Total hrs floating = floating when fans OFF (excludes night cycle control floating hrs) + (10)

Hours htg & clg are scheduled available (defaults to 8760 hrs) → (5) and (6) ← Even if 'available', fans must be ON via schedule or night cycle ctrl, else no htg/clg.

Hours at least one fan system is running (via the fan schedules or night cycle ctrl) → (7) ← Total fan hrs = (1) + (2) - (3) + (9) + (10) Note: night cycle hrs are in (1) & (2)

Hrs fans cycle ON via night cycle control → (8) (9) ← Hrs fans cycle ON via night venting

Floating (no htg/clg) when fans ON via schedule or night cycle ctrl → (10) ← hrs outside throttling range are not floating hrs

Check for simultaneous htg/clg systems oversizing (reheat systems) → (11)

LOADS & SYSTEMS electric load coincident with peak cooling coil load → (12)

**** Important Report ****

Other Notes:

(1) + (2) - (3) + (4) = calendar hours
(5) + (6) ≥ (7) else inadequate temperature ctrl
Hrs outside throttling range are not floating hrs

One SS-M report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-M** Building HVAC Fan Elec Energy

WEATHER FILE- CZ06RV2 WYEC2

MONTH	FAN ELECTRIC ENERGY DURING HEATING (KWH)	FAN ELECTRIC ENERGY DURING COOLING (KWH)	FAN ELECTRIC ENERGY DURING HEATING-COOLING (KWH)	FAN ELECTRIC ENERGY DURING FLOATING (KWH)
JAN	229.201	1173.765	17.252	762.620
FEB	95.088	1183.188	0.000	662.109
MAR	97.090	1388.123	0.000	778.840
APR	79.295	1480.203	0.000	640.020
MAY	68.862	1922.848	0.000	394.867
JUN	48.672	2197.378	0.000	231.575
JUL	38.033	2300.778	0.000	152.256
AUG	38.062	2608.159	0.000	110.090
SEP	39.124	2157.940	0.000	122.475
OCT	63.713	2105.447	0.000	273.620
NOV	97.575	1561.080	0.000	440.077
DEC	191.019	1163.693	0.000	687.847
ANNUAL	1085.742	21242.639	17.252	5256.291

Important Notes:

Total fan electric for the building is NOT reported here. Total fan electric for the building is reported on PS-E.

For a system-level report similar to this building-level report, see SS-L.

The fan energy reported here includes only supply & return fans. Exhaust fans are excluded. (Exhaust fans are included under the VENT FANS end use category on Plant reports.)

**Total Fan Electric =
Heating Fan Electric +
Cooling Fan Electric +
Floating Fan Electric -
Heat & Cool Fan Electric**

**NOTE: for system fans only
(excludes zone fans, e.g.,
exhaust fans, fan-powered
VAV terminal fans)**

One SS-A report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-A** System Loads Summary for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	C O O L I N G						H E A T I N G						E L E C	
	COOLING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF DY	MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
	"MBTU" = Btu x 1,000,000													
JAN	6.99828	11	13	78.F	54.F	106.237	-0.335	2	9	51.F	46.F	-127.921	6476.	28.587
FEB	7.95906	16	13	66.F	61.F	106.263	-0.009	5	9	54.F	51.F	-7.526	5603.	27.116
MAR	8.68998	16	13	75.F	61.F	110.816	0.000	31	24	52.F	51.F	0.000	6462.	24.540
APR	8.84468	4	17	81.F	52.F	123.646	0.000	30	1	55.F	55.F	0.000	6074.	24.658
MAY	16.40177	31	14	72.F	66.F	147.515	0.000	31	1	54.F	49.F	0.000	6365.	24.394
JUN	26.80062	20	14	84.F	74.F	204.080	0.000	30	1	61.F	58.F	0.000	6297.	24.748
JUL	30.59795	11	10	82.F	70.F	184.888	0.000	31	1	63.F	58.F	0.000	6174.	24.907
AUG	34.87575	9	9	74.F	67.F	178.021	0.000	31	1	64.F	56.F	0.000	6744.	25.088
SEP	28.61793	7	17	79.F	71.F	201.941	0.000	30	1	63.F	61.F	0.000	5820.	25.000
OCT	23.54031	1	14	85.F	73.F	200.059	0.000	31	24	55.F	47.F	0.000	6470.	26.057
NOV	13.54112	2	15	70.F	62.F	125.971	-0.005	13	9	56.F	51.F	-3.619	5975.	29.202
DEC	6.80566	19	15	77.F	53.F	116.220	-0.095	26	9	50.F	42.F	-16.469	6134.	29.417
TOTAL	213.673						-0.444						74595.	
MAX						204.080						-127.921		29.417

Important Note:

Loads reported here are coil loads, i.e., these loads include outside ventilation air, duct loss/gain, fan heat, and economizer effects (if any). SS-A reports coil loads only for one system.

For more detailed reporting similar to this report, see SS-Q (for Heat Pumps ONLY).

For sens/latent components, see SS-I
Reports central coil, zone coils, and baseboards

For 24-hr profile, see SS-J

Includes only items known about by the LOADS and SYSTEMS programs, i.e., lights, plugs, fans, DX compressors, reheat, crankcase heat, etc., for this system.

Central plant electric is included on "PS-" reports.

**** Important Report ****

One SS-B report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-B** System Loads Summary for

System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	-- ZONE COOLING --		-- ZONE HEATING --		-- BASEBOARDS --		-- PREHEAT OR FURN FAN ELEC --	
	COOLING BY ZONE COILS OR NAT VENTIL (MBTU)	MAXIMUM COOLING BY ZONE COILS OR NAT VENTIL (KBTU/HR)	HEATING BY ZONE COILS OR FURNACE (MBTU)	MAXIMUM HEATING BY ZONE COILS OR FURNACE (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING ENERGY (KBTU/HR)	PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (MBTU)	MAXIMUM PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (KBTU/HR)
JAN	0.00000	0.000	-0.25887	-114.660	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	-0.01095	-6.519	0.00000	0.000	0.00000	0.000
TOTAL	0.000		-0.270		0.000		0.000	
MAX		0.000		-114.660		0.000		0.000

This is the only place natural ventilative cooling is reported. NOTE: this is a system-level report, i.e., for building total natural ventilation, you must sum the SS-B reports. Natural ventilation (if used) acts like a non-integrated economizer (i.e., reports only for hours it can fully meet the cooling load).

This is the only place reheat energy is reported separately. NOTE: this is a system-level report, i.e., for building total reheat, you must sum the SS-B reports. See SS-F for Zone-level reporting.

This is the only place baseboard energy is reported separately. NOTE: this is a system-level report, i.e., for building total baseboards, you must sum the SS-B reports. See SS-F for Zone-level reporting.

This is the only place preheat energy is reported separately. NOTE: this is a system-level report, i.e., for building total preheat, you must sum the SS-B reports.

One SS-C report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-C** System Load Hours for

System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

IMPORTANT NOTE: If a fan system runs for only part of an hour, one hour is still logged for this report.

For a building-level report of operations hours (i.e., one report for ALL systems), see SS-E.

----- N U M B E R O F H O U R S -----

--COINCIDENT LOADS--

MONTH	HOURS COOLING LOAD (1)	HOURS HEATING LOAD (2)	HOURS COINCIDENT COOL-HEAT LOAD (3)	HOURS FLOATING (4)	HOURS HEATING AVAIL. (5)	HOURS COOLING AVAIL. (6)	HOURS FANS ON (7)	HOURS FANS CYCLE ON (8)	HOURS NIGHT VENTING (9)	HOURS FLOATING WHEN FANS ON (10)	HEATING LOAD AT COOLING PEAK (KBTU/HR) (11)	ELECTRIC LOAD AT COOLING PEAK (KW) (12)
JAN	165	17	4	566	744	744	274	0	0	96	0.000	24.177
FEB	166	2	0	504	672	672	241	0	0	73	0.000	23.926
MAR	190	0	0	554	744	744	282	0	0	92	0.000	24.068
APR	187	0	0	533	720	720	263	0	0	76	0.000	24.658
MAY	225	0	0	519	744	744	274	0	0	49	0.000	24.311
JUN	248	0	0	472	720	720	271	0	0	23	0.000	24.606
JUL	249	0	0	495	744	744	263	0	0	14	0.000	24.729
AUG	280	0	0	464	744	744	285	0	0	5	0.000	24.977
SEP	239	0	0	481	720	720	249	0	0	10	0.000	25.000
OCT	242	0	0	502	744	744	274	0	0	32	0.000	24.691
NOV	197	2	0	521	720	720	252	0	0	53	0.000	24.338
DEC	161	8	0	575	744	744	260	0	0	91	0.000	25.233
ANNUAL	2549	29	4	6186	8760	8760	3188	0	0	614		

For comments on each SS-C report column see notes below, by column number.

(1) and (2) ← Hrs in Htg and/or Clg mode during fan operations (includes htg/clg during night cycle control hrs, if any)

(3) ← Large number of coincident htg/clg hours, especially in summer, may indicate overcooling and excessive reheat

(4) ← Total hrs floating = floating when fans OFF (excludes night cycle control floating hrs) + (10)

Hours htg & clg are scheduled available (defaults to 8760 hrs) → (5) and (6) ← Even if 'available', fans must be ON via schedule or night cycle ctrl, else no htg/clg.

Hours at least one fan system is running (via the fan schedules or night cycle ctrl) → (7) ← Total fan hrs = (1)+(2)-(3)+(9)+(10) Note: night cycle hrs are in (1)&(2)

Hrs fans cycle ON via night cycle control → (8) (9) ← Hrs fans cycle ON via night venting

Floating (no htg/clg) when fans ON via schedule or night cycle ctrl → (10) ← hrs outside throttling range are not floating hrs

Check for simultaneous htg/clg systems oversizing (reheat systems) → (11)

LOADS & SYSTEMS electric load coincident with peak cooling coil load → (12)

Other Notes:

(1) + (2) - (3) + (4) = calendar hours

(5) + (6) ≥ (7) else inadequate temperature ctrl

Hrs outside throttling range are not floating hrs

One SS-H report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-H** System Utility Energy Use for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	- FAN ELEC -		- FUEL HEAT -		- FUEL COOL -		ELEC HEAT-		ELEC COOL-	
	FAN ENERGY (KWH)	MAXIMUM FAN LOAD (KW)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)
JAN	709.	3.588	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
FEB	640.	3.604	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
MAR	745.	3.265	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
APR	746.	3.753	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
MAY	823.	3.591	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
JUN	860.	3.945	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
JUL	867.	4.104	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
AUG	964.	4.285	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
SEP	806.	4.197	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
OCT	840.	4.096	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
NOV	705.	3.803	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
DEC	678.	3.716	0.000	0.000	0.000	0.000	0.	0.000	0.	0.000
TOTAL	9382.		0.000		0.000		0.		0.	
MAX		4.285		0.000		0.000		0.000		0.000

For a breakdown by heating vrs cooling vrs floating fan hours, see SS-L. Includes system supply and return fans, plus zone fans (exhaust, fan-powered VAV terminals, etc.) if any. For unitary DX systems, also see SS-P.

NOTE:
For a more detailed breakdown of heating, cooling, and fan energy use, also see SS-P (for unitary DX systems. Only)

Heat Pump compressor + condenser electric (in heating mode) or electric reheat

Unitary equipment compressor + condenser electric (in cooling mode) + crankcase heat (if any)

**** Important Report ****

One SS-I report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-I** Sensible/Latent Summary for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	SENSIBLE COOLING ENERGY (MBTU)	LATENT COOLING ENERGY (MBTU)	MAX TOTAL COOLING ENERGY (KBTU/HR)	SENSIBLE HEAT RATIO AT MAX	TIME OF MAX	HR	SENSIBLE HEATING ENERGY (MBTU)	LATENT HEATING ENERGY (MBTU)	MAX TOTAL HEATING ENERGY (KBTU/HR)
					DY				
JAN	6.45050	0.54778	106.237	1.000	11	13	-0.33485	0.00000	-127.921
FEB	6.39564	1.56342	106.263	0.734	16	13	-0.00855	0.00000	-7.526
MAR	7.35717	1.33280	110.816	0.881	16	13	0.00000	0.00000	0.000
APR	8.06314	0.78154	123.646	1.000	4	17	0.00000	0.00000	0.000
MAY	12.91002	3.49175	147.515	0.695	31	14	0.00000	0.00000	0.000
JUN	18.74260	8.05803	204.080	0.650	20	14	0.00000	0.00000	0.000
JUL	22.03828	8.55967	184.888	0.725	11	10	0.00000	0.00000	0.000
AUG	26.09985	8.77590	178.021	0.729	9	9	0.00000	0.00000	0.000
SEP	21.13661	7.48132	201.941	0.680	7	17	0.00000	0.00000	0.000
OCT	18.41732	5.12299	200.059	0.683	1	14	0.00000	0.00000	0.000
NOV	12.20625	1.33487	125.971	0.784	2	15	-0.00495	0.00000	-3.619
DEC	6.73569	0.06997	116.220	1.000	19	15	-0.09519	0.00000	-16.469
TOTAL	166.553	47.120					-0.444	0.000	
MAX			204.080	0.650					-127.921

Provides a sensible - latent breakdown of total monthly cooling reported on SS-A

Provides a sensible - latent breakdown of total monthly heating reported on SS-A

**Up to Two SS-J reports for each System — the first for Design Day results, the second for weather file results (page 1 of 2)
 (only one system included here for brevity)**

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-J** Peak Heating and Cooling for System 1 (VAVS) (G)

DESIGN DAY

WEATHER FILE- CZ06RV2 WYEC2

This tag indicates this report documents only Design Day results (not weather file results).

The weather file is reported, even though this is a Design Day report (may cause confusion)

Reports 24-hr profile for day with peak cooling HOUR.

COOLING
JUN 21

DAY COOLING PEAK
JUN 21

Reports 24-hr profile for the day with the maximum Day-Long cooling load (largest 24-hr sum). (May not be same day as peak hour day for annual weather file results.) Useful for TES sizing. Compare building total on SS-D report.

HOUR	COOLING				HEATING				DAY COOLING PEAK			
	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	
1	0.000	0.000	78.F	62.F	0.000	37.F	31.F	0.000	0.000	78.F	62.F	
2	0.000	0.000	77.F	62.F	0.000	37.F	31.F	0.000	0.000	77.F	62.F	
3	0.000	0.000	77.F	62.F	0.000	37.F	31.F	0.000	0.000	77.F	62.F	
4	0.000	0.000	77.F	62.F	0.000	37.F	31.F	0.000	0.000	77.F	62.F	
5	0.000	0.000	77.F	62.F	0.000	37.F	31.F	0.000	0.000	77.F	62.F	
6	0.000	0.000	78.F	62.F	0.000	37.F	31.F	0.000	0.000	78.F	62.F	
7	51.662	0.915	79.F	63.F	0.000	37.F	31.F	51.662	0.915	79.F	63.F	
8	223.857	0.920	81.F	63.F	-14.511	37.F	31.F	223.857	0.920	81.F	63.F	
9	203.781	0.905	83.F	64.F	-136.408	37.F	31.F	203.781	0.905	83.F	64.F	
10	193.384	0.897	85.F	64.F	-69.997	37.F	31.F	193.384	0.897	85.F	64.F	
11	193.060	0.898	87.F	65.F	-53.072	37.F	31.F	193.060	0.898	87.F	65.F	
12	194.928	0.899	88.F	66.F	-45.162	37.F	31.F	194.928	0.899	88.F	66.F	
13	196.798	0.900	89.F	66.F	-41.946	37.F	31.F	196.798	0.900	89.F	66.F	
14	197.782	0.900	90.F	66.F	-38.574	37.F	31.F	197.782	0.900	90.F	66.F	
15	200.104	0.901	91.F	66.F	-34.481	37.F	31.F	200.104	0.901	91.F	66.F	
16	205.685	0.902	90.F	66.F	-29.969	37.F	31.F	205.685	0.902	90.F	66.F	
17	64.732	0.919	90.F	66.F	-28.312	37.F	31.F	64.732	0.919	90.F	66.F	
18	0.000	0.000	89.F	66.F	0.000	37.F	31.F	0.000	0.000	89.F	66.F	
19	0.000	0.000	88.F	65.F	0.000	37.F	31.F	0.000	0.000	88.F	65.F	
20	0.000	0.000	86.F	65.F	0.000	37.F	31.F	0.000	0.000	86.F	65.F	
21	0.000	0.000	84.F	64.F	0.000	37.F	31.F	0.000	0.000	84.F	64.F	
22	0.000	0.000	83.F	64.F	0.000	37.F	31.F	0.000	0.000	83.F	64.F	
23	0.000	0.000	81.F	63.F	0.000	37.F	31.F	0.000	0.000	81.F	63.F	
24	0.000	0.000	80.F	63.F	0.000	37.F	31.F	0.000	0.000	80.F	63.F	
SUM								1925.773				
MAX	223.857				-136.408							

SYSTEM-TYPE	VAVS	SQFT/TON	696.9
COOLING PEAK	17.22 (BTU/HR- SQFT)	HEATING PEAK	-10.49 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	0.58 (CFM/SQFT)	MIN-OA/PERSON	16.90 (CFM)
OA FRAC AT CLG PEAK	0.228	OA FRAC AT HTG PEAK	0.470

Review these values as a "sanity check" for each system.

* ASTERISKS INDICATE HOURS LOADS NOT MET

IMPORTANT NOTE:

The 24-hour profiles on this report will include "pick-up" or "pull-down" loads (resulting from floating space temperatures during fan OFF hours).

**** Important Report ****

**Up to Two SS-J reports for each System — the first for Design Day results, the second for weather file results (page 1 of 2)
 (only one system included here for brevity)**

3-Story Office Bldg DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2
 REPORT- **SS-J** Peak Heating and Cooling for System 1 (VAVS) (G) WEATHER FILE- CZ06RV2 WYEC2

No "Design Day" tag indicates this report documents weather

- - - - C O O L I N G - - - -					- - - H E A T I N G - - -			D A Y C O O L I N G P E A K				
JUN 20					JAN 2			SEP 7				
HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP		
1	0.000	0.000	59.F	58.F	0.000	48.F	46.F	0.000	0.000	68.F	66.F	
2	0.000	0.000	59.F	57.F	0.000	47.F	45.F	0.000	0.000	68.F	64.F	
3	0.000	0.000	58.F	57.F	0.000	44.F	42.F	0.000	0.000	68.F	64.F	
4	0.000	0.000	58.F	56.F	0.000	43.F	41.F	0.000	0.000	68.F	65.F	
5	0.000	0.000	60.F	58.F	0.000	44.F	42.F	0.000	0.000	67.F	64.F	
6	0.000	0.000	63.F	60.F	0.000	43.F	41.F	0.000	0.000	67.F	65.F	
7	26.097	0.594	65.F	62.F	0.000	42.F	40.F	43.922	0.531	69.F	66.F	
8	148.827	0.671	70.F	66.F	-25.727	44.F	41.F	172.644	0.687	71.F	67.F	
9	166.892	0.662	75.F	69.F	-127.921	51.F	46.F	185.862	0.671	76.F	70.F	
10	183.615	0.646	80.F	72.F	-55.636	53.F	48.F	185.491	0.686	78.F	70.F	
11	187.272	0.669	82.F	72.F	-24.443	60.F	52.F	187.705	0.689	78.F	70.F	
12	194.910	0.650	82.F	73.F	-16.313	64.F	53.F	195.188	0.708	82.F	71.F	
13	204.080	0.650	84.F	74.F	-8.914	66.F	56.F	194.650	0.707	82.F	71.F	
14	191.313	0.674	82.F	72.F	-2.590	64.F	53.F	193.539	0.679	79.F	71.F	
15	187.021	0.678	80.F	71.F	-0.894	57.F	52.F	192.316	0.730	82.F	70.F	
16	186.201	0.678	78.F	70.F	-0.932	57.F	51.F	201.941	0.680	79.F	71.F	
17	59.891	0.594	76.F	68.F	-1.559	55.F	50.F	69.845	0.563	78.F	70.F	
18	0.000	0.000	73.F	66.F	0.000	52.F	49.F	0.000	0.000	74.F	69.F	
19	0.000	0.000	70.F	64.F	0.000	55.F	52.F	0.000	0.000	73.F	69.F	
20	0.000	0.000	67.F	63.F	0.000	55.F	50.F	0.000	0.000	71.F	69.F	
21	0.000	0.000	65.F	61.F	0.000	52.F	48.F	0.000	0.000	70.F	68.F	
22	0.000	0.000	63.F	60.F	0.000	52.F	46.F	0.000	0.000	70.F	68.F	
23	0.000	0.000	61.F	59.F	0.000	52.F	46.F	0.000	0.000	70.F	67.F	
24	0.000	0.000	60.F	58.F	0.000	51.F	44.F	0.000	0.000	69.F	66.F	
SUM								1823.101				
MAX	204.080				-127.921							

SYSTEM-TYPE	VAVS	SQFT/TON	764.4
COOLING PEAK	15.70 (BTU/HR- SQFT)	HEATING PEAK	-9.84 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	0.58 (CFM/SQFT)	MIN-OA/PERSON	16.90 (CFM)
OA FRAC AT CLG PEAK	0.343	OA FRAC AT HTG PEAK	0.459

* ASTERISKS INDICATE HOURS LOADS NOT MET

IMPORTANT NOTE:

The 24-hour profiles on this report will include "pick-up" or "pull-down" loads (resulting from floating space temperatures during fan OFF hours).

This flow rate is set by:
 1) user input in eQUEST or
 2) based on a Design Day run (see previous SS-J report), if used,
 or 3) based on a Weather File run if no Design Day is used.

**** Important Report ****

One SS-K report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-K** Space Temperature Summary for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE	DIFFERENCE	SUMMED TEMP	DIFFERENCE	HUMIDITY RATIO	
	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN ON HOURS (F)	BETWEEN OUTDOOR& ROOM AIR FAN OFF HOURS (F)	BETWEEN OUTDOOR& ROOM AIR HEATING HOURS (F)	BETWEEN OUTDOOR& ROOM AIR ALL HOURS (F)	DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	73.51	74.76	70.97	74.28	73.05	-17.56	-14.01	-19.63	10.85	545.02	-0.00094
FEB	74.33	75.15	72.79	74.85	74.04	-17.71	-13.69	-19.95	1.52	496.58	-0.00071
MAR	74.43	75.21	0.00	74.92	74.13	-17.93	-13.32	-20.74	0.00	556.46	-0.00061
APR	74.99	75.49	0.00	75.26	74.83	-16.02	-11.99	-18.34	0.00	483.78	-0.00100
MAY	75.46	75.67	0.00	75.53	75.42	-14.37	-10.21	-16.79	0.00	446.33	-0.00009
JUN	76.15	75.90	0.00	75.85	76.33	-11.83	-6.73	-14.90	0.00	361.16	0.00086
JUL	76.48	76.03	0.00	76.01	76.74	-9.66	-4.23	-12.63	0.00	311.27	0.00113
AUG	76.64	76.12	0.00	76.11	76.96	-8.34	-3.36	-11.43	0.00	268.59	0.00157
SEP	76.39	75.96	0.00	75.94	76.63	-8.74	-3.50	-11.51	0.00	280.91	0.00143
OCT	75.75	75.74	0.00	75.67	75.80	-11.46	-6.85	-14.15	0.00	371.33	0.00032
NOV	74.68	75.35	72.99	75.12	74.45	-14.70	-9.41	-17.55	1.46	444.22	-0.00091
DEC	73.89	74.89	72.36	74.51	73.55	-18.96	-13.84	-21.70	7.04	588.76	-0.00094
ANNUAL	75.23	75.60	71.62	75.34	75.16	-13.92	-9.24	-16.60	20.87	5154.40	0.00001

IMPORTANT NOTE:

Average temperatures include any unconditioned zone temperatures assigned to the system.

One SS-R report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-R** Zone Performance Summary for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

ZONE	ZONE OF MAXIMUM HTG DMND (HOURS)	ZONE OF MAXIMUM CLG DMND (HOURS)	ZONE UNDER HEATED (HOURS)	ZONE UNDER COOLED (HOURS)	Number of hours within each PART LOAD range											TOTAL RUN HOURS
					00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	
South Perim Zone (G.S1)	0	1401	0	46	0	0	840	55	259	685	631	257	162	299	0	3188
East Perim Zone (G.E2)	0	176	0	0	0	0	1542	703	613	174	116	33	7	0	0	3188
North Perim Zone (G.N3)	0	1	0	0	0	0	1432	395	466	647	247	1	0	0	0	3188
West Perim Zone (G.W4)	0	160	0	0	0	0	1525	641	610	205	125	76	6	0	0	3188
Core Zone (G.C5)	0	1450	0	0	0	0	0	0	1269	640	1192	87	0	0	0	3188
TOTAL	0	3188	0	46												

IMPORTANT NOTE:

Check here for hours out of control. Compare to "Hours Outside Throttling Range" on BEPS and BEPU reports.

See the SS-F report of any offending zone to see what month(s) the problem occurred in.

See the SS-G report for any offending zone to get an idea of the time of day the control problem occurs.

The part-loading reported in this area refers only to flow.

**** Important Report ****

One SS-L report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-L** Fan Electric Energy Use for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	FAN ELEC DURING HEATING (KWH)	FAN ELEC DURING COOLING (KWH)	FAN ELEC DURING HEAT & COOL (KWH)	FAN ELEC DURING FLOATING (KWH)	Number of hours within each PART LOAD range											TOTAL RUN HOURS
					00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	
JAN	39.455	455.446	9.460	223.216	0	0	0	154	98	22	0	0	0	0	0	274
FEB	4.480	466.890	0.000	168.577	0	0	0	120	92	29	0	0	0	0	0	241
MAR	0.000	531.361	0.000	213.856	0	0	0	134	123	25	0	0	0	0	0	282
APR	0.000	566.748	0.000	179.406	0	0	0	90	69	103	1	0	0	0	0	263
MAY	0.000	709.446	0.000	113.750	0	0	0	70	38	166	0	0	0	0	0	274
JUN	0.000	806.921	0.000	52.598	0	0	0	56	21	166	28	0	0	0	0	271
JUL	0.000	835.799	0.000	31.361	0	0	0	51	5	131	76	0	0	0	0	263
AUG	0.000	952.859	0.000	11.200	0	0	0	54	5	105	121	0	0	0	0	285
SEP	0.000	783.344	0.000	22.401	0	0	0	49	22	122	56	0	0	0	0	249
OCT	0.000	767.802	0.000	72.498	0	0	0	59	64	124	27	0	0	0	0	274
NOV	4.480	576.682	0.000	123.611	0	0	0	99	77	72	4	0	0	0	0	252
DEC	17.921	444.306	0.000	215.425	0	0	0	144	94	18	4	0	0	0	0	260
ANNUAL	66.336	+ 7897.629	- 9.460	+ 1427.909	0	0	0	1080	708	1083	317	0	0	0	0	3188

Total Fan Electric =

BREAKDOWN OF ANNUAL FAN POWER USAGE

FAN TYPE	ANNUAL FAN ELEC (KWH)
SUPPLY	7037.
RETURN	2346.
TOTAL	9382.

Total Fan Electric = Heating Fan Electric + Cooling Fan Electric + Floating Fan Electric - Heat & Cool Fan Electric

NOTE: for system fans only (excludes zone fans, e.g., exhaust fans, fan-powered VAV terminal fans)

Part load = hourly flow / design flow, i.e., VAV systems and CV systems with fans that cycle will show hours with part load < 100%

Used to confirm fan sizing and minimum flow settings. In this example, default non-coincident fan sizing led to maximum part-loads less than 70%.

NOTES:

For a building-level report similar to this system-level report, see SS-M.

The fan energy reported here includes only supply & return fans. Exhaust fans are excluded. (Exhaust fans are included under the VENT FANS end use category on Plant reports.)

**** Important Report ****

One SS-N report for each SYSTEM (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-N** Relative Humidity Summary for System 1 (VAVS) (G)

WEATHER FILE- CZ06RV2 WYEC2

These hours report "hour ending" time, i.e., 1AM reports the hour ending at 1am (midnight to 1am).

These hours are reported in standard time, even if the simulation was conducted using daylight savings time.

HOUR	TOTAL HOURS AT RELATIVE HUMIDITY LEVEL AND												TIME OF DAY												TOTAL
	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	
90-100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	2	2	3	2	1	2	1	2	0	0	0	0	0	0	0	0	0	15
50-59	0	0	0	0	0	0	62	67	61	38	24	20	17	16	20	19	53	7	0	0	0	0	0	404	
40-49	0	0	0	0	0	0	66	131	175	205	226	235	238	250	243	214	156	52	0	0	0	0	0	2200	
30-39	0	0	0	0	0	0	8	36	33	24	25	26	26	19	25	28	29	24	0	0	0	0	0	305	
20-29	0	0	0	0	0	0	6	22	23	25	19	16	17	13	8	9	9	14	0	0	0	0	0	190	
10-19	0	0	0	0	0	0	4	23	7	7	6	4	2	4	6	4	4	6	0	0	0	0	0	79	
0-09	0	0	0	0	0	0	0	1	3	2	2	2	2	1	0	0	1	3	0	0	0	0	0	17	

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* NOTE 1)THE RELATIVE HUMIDITY COUNTS ARE MADE ONLY FOR
* THE HOURS WHEN THE FANS ARE ON
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NOTE:
DOE-2's humidistat is only located in the central return path for the system, therefore, the RH's reported here are the average for all zones served by the system.

**** Important Report ****

One SS-G report for each ZONE (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-G** Zone Loads Summary for

South Perim Zone (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

MONTH	C O O L I N G						H E A T I N G						E L E C	
	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)		
JAN	0.00000	31 24	50.F	49.F	0.000	-0.006	2 9	51.F	46.F	-6.252	627.	3.560		
FEB	0.00000	28 24	51.F	50.F	0.000	0.000	28 24	51.F	50.F	0.000	535.	3.078		
MAR	0.00000	31 24	52.F	51.F	0.000	0.000	31 24	52.F	51.F	0.000	608.	2.107		
APR	0.00000	30 1	55.F	55.F	0.000	0.000	30 1	55.F	55.F	0.000	566.	2.107		
MAY	0.00000	31 1	54.F	49.F	0.000	0.000	31 1	54.F	49.F	0.000	589.	2.107		
JUN	0.00000	30 1	61.F	58.F	0.000	0.000	30 1	61.F	58.F	0.000	577.	2.107		
JUL	0.00000	31 1	63.F	58.F	0.000	0.000	31 1	63.F	58.F	0.000	562.	2.107		
AUG	0.00000	31 1	64.F	56.F	0.000	0.000	31 1	64.F	56.F	0.000	615.	2.107		
SEP	0.00000	30 1	63.F	61.F	0.000	0.000	30 1	63.F	61.F	0.000	537.	2.257		
OCT	0.00000	31 24	55.F	47.F	0.000	0.000	31 24	55.F	47.F	0.000	607.	2.715		
NOV	0.00000	30 24	52.F	43.F	0.000	0.000	30 24	52.F	43.F	0.000	581.	3.718		
DEC	0.00000	31 24	48.F	47.F	0.000	0.000	31 24	48.F	47.F	0.000	602.	3.786		
TOTAL	0.000					-0.006					7007.			
MAX					0.000					-6.252		3.786		

No zone-level cooling in this example. (Cooling via natural ventilation is only reported at the system level on SS-B.)

Zone-level heating in this example is reheat.

Includes only items known about by the LOADS and SYSTEMS programs, i.e., lights, plugs, fans, DX compressors, reheat, etc., for this zone. Central plant electric is included on "PS-" reports.

One SS-F report for each ZONE (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-F** Zone Demand Summary for

South Perim Zone (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

- - - - D E M A N D S - - - - -		- - B A S E B O A R D S - - - - -		- - T E M P E R A T U R E S - - - - -		- L O A D S N O T M E T - -		
MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	3.16646	-0.005	0.00000	0.000	79.3	65.7	0	12
FEB	2.77667	0.000	0.00000	0.000	78.2	70.3	0	3
MAR	2.49827	0.000	0.00000	0.000	77.2	71.1	0	0
APR	1.71558	0.000	0.00000	0.000	76.5	71.1	0	0
MAY	1.90271	0.000	0.00000	0.000	76.0	72.0	0	0
JUN	2.25829	0.000	0.00000	0.000	76.7	73.4	0	0
JUL	2.43026	0.000	0.00000	0.000	77.0	74.1	0	0
AUG	2.91116	0.000	0.00000	0.000	77.3	74.7	0	0
SEP	2.58410	0.000	0.00000	0.000	77.7	74.0	0	0
OCT	3.10833	0.000	0.00000	0.000	78.6	73.2	0	0
NOV	3.06735	0.000	0.00000	0.000	79.0	71.7	0	10
DEC	3.06291	0.000	0.00000	0.000	80.1	69.5	0	21

These zone temperatures are hour-ending temperatures and are only reported for fan run hours, i.e., these temperatures always report conditions after the fans have been running at least one hour.

Reports hours >0.5F outside throttling range by month for this zone (only logs during fan run hours).

The recommended sequence to check adequate control: Check hours outside throttling range on BEPS or BEPU report, then check SS-R report, then check this report and the next report (SS-O).

**** Important Report ****

One SS-O report for each ZONE (only one included here for brevity)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-O** Space Temperature Summary for South Perim Zone (G.S1)

WEATHER FILE- CZ06RV2 WYEC2

These hours report "hour ending" time, i.e., 1AM reports the hour ending at 1am (midnight to 1am).

These hours are reported in standard time, even if the simulation was conducted using daylight savings time.

HOUR	TOTAL HOURS AT TEMPERATURE LEVEL AND												TIME OF DAY												TOTAL
	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	
ABOVE 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80-85	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
75-80	0	0	0	0	0	0	65	140	245	288	300	301	303	303	274	238	58	0	0	0	0	0	0	2818	
70-75	0	0	0	0	0	0	81	138	59	16	4	3	0	0	1	0	14	48	0	0	0	0	0	364	
65-70	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
60-65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BELOW 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Unfortunately, these temperature ranges ("bins") cannot be set by the user. Therefore, these pre-set bins may not correspond very conveniently to the throttling range limits in any specific example.

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* NOTE 1) THE TEMPERATURE COUNTS ARE MADE ONLY FOR *
* THE HOURS WHEN THE FANS ARE ON *
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IMPORTANT NOTE:
Hours are logged on this report ONLY during normal fan run hours, i.e., night-cycle-control hours (if any) are logged as zeros.

Use this report to check the time of day for any hours outside of throttling range (as reported on BEPS, BEPU, SS-R, or SS-F).

In this example, these hours indicate inadequate flow to this south zone, as suggested by hours outside of throttling range (BEPS, BEPU, SS-R, and SS-F). Likely due to inadequate Design Day sizing where low sun angle in winter months sets the south zone peak space load (not captured using Design Day).

**** Important Report ****

One SS-P report for each UNITARY SYSTEM (i.e., PSZ, PVAVS, RESYS, RESVVT, PTAC, or HP — only one included here for brevity)

3-Story Office Bldg **NOTE: To obtain this report, SS-H must also be selected.** DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-P Heating** Performance Summary of System 2 (PSZ) (T.S13) WEATHER FILE- CZ06RV2 WYEC2

This SS-P report is for heating operation. For cooling operation, see the SS-P report on the following page.

UNIT TYPE is PSZ HEATING-CAPACITY = -40.504 (KBTU/HR) HEATING-EIR = 0.345 (BTU/BTU) SUPPLY-FLOW = 965. (CFM)

MONTH	UNIT LOAD SUM (MBTU) PEAK (KBTU/HR) DAY/HR	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)	Number of hours within each PART LOAD range											TOTAL RUN HOURS		
					00	10	20	30	40	50	60	70	80	90	100		+	
JAN	SUM -0.067 PEAK -20.264 DAY/HR 2/9	35.548 2.097 2/9	31.002 2.097 2/9	73.185 0.267 31/18	CMP 66 FAN 0	0	1	0	1	0	0	0	0	0	0	0	0	68
	SUM -0.0 PEAK -1.9 DAY/HR 5/	Compressor plus crankcase heat for heating mode only.	Compressor ONLY (does not include crankcase heat) for heating mode only.	Includes system supply and return fans, plus zone fans (exhaust, fan-powered VAV terminals, etc.) if any. NOTE: not limited to heating hours only.	CMP 46 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	46
	SUM -0.0 PEAK -2.8 DAY/HR 17/				CMP 56 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	56
APR	SUM -0.020 PEAK -1.631 DAY/HR 30/11	20.20 0.52 30/11			CMP 47 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	47
MAY	SUM -0.018 PEAK -1.367 DAY/HR 26/10	19.888 0.510 26/10	19.638 0.510 26/10		CMP 47 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	47
JUN	SUM -0.010 PEAK -1.461 DAY/HR 2/10	12.598 0.507 2/10	12.598 0.507 2/10	72.383 0.267 30/16	CMP 30 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	30
JUL	SUM -0.006 PEAK -0.334 DAY/HR 3/8	9.350 0.442 24/8	9.350 0.442 24/8	70.247 0.267 31/18	CMP 22 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	22
AUG	SUM -0.005 PEAK -0.313 DAY/HR 22/8	9.190 0.468 6/8	9.190 0.468 6/8	76.123 0.267 31/18	CMP 21 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	21
SEP	SUM -0.006 PEAK -0.346 DAY/HR 27/8	9.840 0.471 24/9	9.840 0.471 24/9	66.507 0.267 29/16	CMP 23 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	23
OCT	SUM -0.012 PEAK -0.650 DAY/HR 30/9	15.250 0.463 25/9	15.175 0.463 25/9	73.185 0.267 31/18	CMP 36 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	36
NOV	SUM -0.022 PEAK -1.759 DAY/HR 13/11	20.971 0.543 13/11	19.498 0.543 13/11	67.309 0.267 30/18	CMP 46 FAN 0	0	0	0	0	0	0	0	0	0	0	0	0	46
DEC	SUM -0.046 PEAK -6.149 DAY/HR 31/9	35.037 0.897 31/9	29.687 0.897 31/9	69.445 0.267 31/18	CMP 68 FAN 0	1	0	0	0	0	0	0	0	0	0	0	0	69
YR	SUM -0.261 PEAK -20.264 MON/DAY 1/2	235.376 2.097 1/2	217.818 2.097 1/2	851.486 0.267 12/31	CMP 508 FAN 0	1	1	0	1	0	0	0	0	0	0	0	0	511

These units apply to these items

*** Important Report ****

One SS-P report for each UNITARY SYSTEM (i.e., PSZ, PVAVS, RESYS, RESVVT, PTAC, or HP — only one included here for brevity)

3-Story Office Bldg

NOTE: To obtain this report, SS-H must also be selected.

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-P Cooling** Performance Summary of System 2 (PSZ) (T.S13)

WEATHER FILE- CZ06RV2 WYEC2

This SS-P report is for cooling operation. For heating operation, see the SS-P report on the preceeding page.

UNIT TYPE is PSZ COOLING-CAPACITY = 33.557 (KBTU/HR) COOLING-EIR = 0.416 (BTU/BTU) SUPPLY-FLOW = 965. (CFM)

MONTH	UNIT LOAD		ENERGY USE		COMPRESSOR		FAN ENERGY		Number of hours within each PART LOAD range											TOTAL RUN HOURS		
	SUM (MBTU)	PEAK (KBTU/HR)	(KWH)	(KW)	(KWH)	(KW)	(KWH)	(KW)	00	10	20	30	40	50	60	70	80	90	100		+	
JAN	SUM 2.842	PEAK 27.395	287.448	2.827	284.349	2.827	73.185	0.267	0	0	3	3	13	15	53	43	1	0	0	0	131	
	DAY/HR 18/13		11/13		11/13		31/18		CMP 0	FAN 0												
	SUM 2.7	PEAK 27.7	Compressor plus crankcase heat for cooling mode only.		Compressor ONLY (does not include crankcase heat) for cooling mode only.		Includes system supply and return fans, plus zone fans (exhaust, fan-powered VAV terminals, etc.) if any. NOTE: not limited to cooling hours only.					1	0	3	6	13	7	42	52	1	0	125
	DAY/HR 16/								0	0	0	0	0	0	0	0	0	0	0	0	124	124
	SUM 2.2	PEAK 27.3							1	0	3	8	33	42	23	10	1	0	0	0	121	
	DAY/HR 16/								0	0	0	0	0	0	0	0	0	0	0	0	120	120
APR	SUM 1.329	PEAK 20.847	137.76	2.27					3	0	14	28	30	21	3	0	0	0	0	0	0	99
	DAY/HR 6/14		4/14		4/14				0	0	0	0	0	0	0	0	0	0	0	0	96	96
MAY	SUM 2.603	PEAK 23.977	261.987	2.665	261.737	2.665			4	0	16	22	66	44	15	1	0	0	0	0	0	168
	DAY/HR 31/14		29/14		29/14				0	0	0	0	0	0	0	0	0	0	0	0	164	164
JUN	SUM 3.769	PEAK 31.382	387.657	3.542	387.657	3.542	72.383	0.267	6	0	5	16	39	57	44	22	7	1	0	0	197	
	DAY/HR 20/14		20/14		20/14		30/16		0	0	0	0	0	0	0	0	0	0	0	0	191	191
JUL	SUM 4.297	PEAK 27.809	449.928	3.262	449.928	3.262	70.247	0.267	17	0	2	12	32	46	56	49	6	0	0	0	220	
	DAY/HR 10/16		10/16		10/16		31/18		0	0	0	0	0	0	0	0	0	0	0	0	203	203
AUG	SUM 4.953	PEAK 27.499	519.924	3.306	519.924	3.306	76.123	0.267	19	0	0	10	28	49	70	67	4	0	0	0	247	
	DAY/HR 31/15		31/15		31/15		31/18		0	0	0	0	0	0	0	0	0	0	0	0	228	228
SEP	SUM 4.122	PEAK 31.479	435.378	3.465	435.378	3.465	66.507	0.267	14	0	8	17	27	31	59	27	25	3	0	0	211	
	DAY/HR 7/15		7/14		7/14		29/16		0	0	0	0	0	0	0	0	0	0	0	0	197	197
OCT	SUM 4.095	PEAK 34.932	422.497	3.687	422.422	3.687	73.185	0.267	11	0	10	16	24	40	39	23	20	19	2	0	204	
	DAY/HR 1/14		1/14		1/14		31/18		0	0	0	0	0	0	0	0	0	0	0	0	193	193
NOV	SUM 3.324	PEAK 29.063	338.893	3.168	337.468	3.168	67.309	0.267	3	0	4	7	15	24	30	44	26	0	0	0	153	
	DAY/HR 27/13		29/13		29/13		30/18		0	0	0	0	0	0	0	0	0	0	0	0	150	150
DEC	SUM 2.503	PEAK 27.361	257.208	2.994	252.434	2.994	69.445	0.267	2	0	4	6	17	19	55	16	5	0	0	0	124	
	DAY/HR 19/15		19/14		19/14		31/18		0	0	0	0	0	0	0	0	0	0	0	0	122	122
YR	SUM 38.770	PEAK 34.932	3997.244	3.687	3982.015	3.687	851.486	0.267	81	0	72	151	337	395	489	354	96	23	2	0	2000	
	MON/DAY 10/ 1		10/ 1		10/ 1		12/31		0	0	0	0	0	0	0	0	0	0	0	0	1919	1919

These units apply to these items

**** Important Report ****

One SS-P report for each HEAT PUMP SYSTEM (i.e., PSZ, PVAVS, RESYS, RESVVT or PTAC — only one included here for brevity)

3-Story Office Bldg

NOTE: To obtain this report, SS-A must also be selected.

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-Q** Heat Pump **Cooling** Summary for System 2 (PSZ) (T.S13)

WEATHER FILE- CZ06RV2 WYEC2

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	84.	2.842	0.970	0.011	0.000	0.000	0.000	0.000	0.000	0.154
FEB	80.	2.722	0.929	0.008	0.000	0.000	0.000	0.000	0.000	0.145
MAR	65.	2.211	0.756	0.009	0.000	0.000	0.000	0.000	0.000	0.158
APR	40.	1.329	0.468	0.002	0.000	0.000	0.000	0.000	0.000	0.142
MAY	76.	2.603	0.893	0.001	0.000	0.000	0.000	0.000	0.000	0.178
JUN	108.	3.769	1.323	0.000	0.000	0.000	0.000	0.000	0.000	0.197
JUL	124.	4.297	1.536	0.000	0.000	0.000	0.000	0.000	0.000	0.202
AUG	143.	4.953	1.774	0.000	0.000	0.000	0.000	0.000	0.000	0.224
SEP	119.	4.122	1.486	0.000	0.000	0.000	0.000	0.000	0.000	0.193
OCT	120.	4.095	1.442	0.000	0.000	0.000	0.000	0.000	0.000	0.196
NOV	98.	3.324	1.152	0.005	0.000	0.000	0.000	0.000	0.000	0.162
DEC	74.	2.503	0.862	0.016	0.000	0.000	0.000	0.000	0.000	0.143
ANNUAL	1130.	38.770	13.591	0.052	0.000	0.000	0.000	0.000	0.000	2.095

CSPF (WITH PARASITICS) = 2.46 (KBTU/HR)
 CSPF (WITHOUT PARASITICS) = 2.85 (BTU/BTU)

"Seasonal Cooling COP" (Btu/Btu)
 COP = TOTAL LOAD / ENERGY IN
 "parasitics" are fan and pump (if any)
 energy.

One SS-P report for each HEAT PUMP SYSTEM (i.e., PSZ, PVAVS, RESYS, RESVVT or PTAC — only one included here for brevity)

3-Story Office Bldg

NOTE: To obtain this report, SS-A must also be selected.

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **SS-Q** Heat Pump **Heating** Summary for System 2 (PSZ) (T.S13)

WEATHER FILE- CZ06RV2 WYEC2

UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	2.	-0.067	0.109	0.012	0.000	0.000	0.000	0.000	0.096
FEB	0.	-0.020	0.064	0.008	0.000	0.000	0.000	0.000	0.074
MAR	1.	-0.029	0.080	0.009	0.000	0.000	0.000	0.000	0.099
APR	0.	-0.020	0.067	0.002	0.000	0.000	0.000	0.000	0.098
MAY	0.	-0.018	0.067	0.001	0.000	0.000	0.000	0.000	0.072
JUN	0.	-0.010	0.043	0.000	0.000	0.000	0.000	0.000	0.050
JUL	0.	-0.006	0.032	0.000	0.000	0.000	0.000	0.000	0.037
AUG	0.	-0.005	0.031	0.000	0.000	0.000	0.000	0.000	0.036
SEP	0.	-0.006	0.034	0.000	0.000	0.000	0.000	0.000	0.034
OCT	0.	-0.012	0.052	0.000	0.000	0.000	0.000	0.000	0.053
NOV	0.	-0.022	0.067	0.005	0.000	0.000	0.000	0.000	0.067
DEC	1.	-0.046	0.101	0.018	0.000	0.000	0.000	0.000	0.094
ANNUAL	6.	-0.261	0.747	0.057	0.000	0.000	0.000	0.000	0.811

HSPF (WITH PARASITICS) = 0.66 (KBTU/HR)
HSPF (WITHOUT PARASITICS) = 0.35 (BTU/BTU)

"Seasonal Heating COP" (Btu/Btu)
COP = TOTAL LOAD / ENERGY IN
"parasitics" are fan and pump (if any) energy.

One PV-A report only (this is a building level report — may be multiple pages depending on amount of plant equipment)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PV-A** Plant Design Parameters

WEATHER FILE- CZ06RV2 WYEC2

*** CIRCULATION LOOPS ***

HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)
Chilled Water Loop 0.000	0.570	112.4	56.6	0.0	0.00	0.0	0.00	168.7	1.00
Hot Water Loop -0.507	0.000	25.4	36.6	0.0	0.00	0.0	0.00	38.1	1.00
Condenser Water Loop 0.000	0.727	144.1	61.6	0.0	0.00	0.0	0.00	216.1	1.00
Domestic Hot Water Loop -0.020	0.000	0.5	0.0	0.0	0.00	0.0	0.00	0.8	1.00

*** PUMPS ***

ATTACHED TO	FLOW (GAL/MIN)	HEAD (FT)	HEAD SETPOINT (FT)	CAPACITY CONTROL	POWER (KW)	MECHANICAL EFFICIENCY (FRAC)	MOTOR EFFICIENCY (FRAC)
CHW Loop Pump Chilled Water Loop PRIMARY LOOP	1 PUMP(s) 112.4	80.0	37.6	VAR-SPEED	2.544	0.770	0.865
HW Loop Pump Hot Water Loop PRIMARY LOOP	1 PUMP(s) 25.4	40.0	0.0	ONE-SPEED	0.355	0.770	0.700
CW Loop Pump Condenser Water Loop PRIMARY LOOP	1 PUMP(s) 144.1	50.0	0.0	ONE-SPEED	2.176	0.770	0.810

*** PRIMARY EQUIPMENT ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)
Boiler 1 (HWNatDraft) HW-BOILER	Hot Water Loop	-0.507	25.4	0.000	1.250	0.000
Chiller 1 (ElecRecipHerm) ELEC-HERM-REC	Chilled Water Loop	0.570	113.9	0.265	0.000	0.000
	Condenser Water Loop	0.721	144.1			

IMPORTANT NOTE:
reports non-coincident heating & cooling capacity. Depending on each loop's SIZING-OPTION, the capacity is either the sum of all coil loads (SECONDARY), or suppliers (PRIMARY).

Chiller capacity (in MBTU) compare with PS-C PEAK Load

*** COOLING TOWERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	NUMBER OF CELLS	FAN POWER PER CELL (KW)	SPRAY PWR PER CELL (KW)	AUXILIARY (KW)
Open Tower OPEN-TWR	Condenser Water Loop	0.727	145.3	1	2.237	0.000	0.000

One PV-A report only (this is a building level report — page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- PV-A Plant Design Parameters

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

*** DW-HEATERS ***

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)	TANK (GAL)	TANK UA (BTU/HR-F)
GAS DW-HEATER	Domestic Hot Water Loop	-0.206	5.3	0.000	1.370	0.000	154.6	6.44

One PS-A report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-A** Plant Energy Utilization

WEATHER FILE- CZ06RV2 WYEC2

S I T E E N E R G Y													
MONTH	2	3	4	5	6	7	8	9	10	11	12	13	14
	TOTAL HEAT LOAD (MBTU)	TOTAL COOLING LOAD (MBTU)	TOTAL ELECTR LOAD (MWH)	RCVRED ENERGY (MBTU)	WASTED RCVRABL ENERGY (MBTU)	FUEL INPUT COOLING (MBTU)	ELEC INPUT COOLING (MWH)	FUEL INPUT HEATING (MBTU)	ELEC INPUT HEATING (MWH)	FUEL INPUT ELECT (MBTU)	TOTAL FUEL INPUT (MBTU)	TOTAL SITE ENERGY (MBTU)	TOTAL SOURCE ENERGY (MBTU)
JAN	-4.6	16.5	25.2	0.0	0.0	0.0	2.9	6.9	0.3	0.0	6.9	93.0	265.2
FEB	-3.5	18.9	22.1	0.0	0.0	0.0	3.1	5.0	0.1	0.0	5.0	80.3	230.9
MAR	-4.1	21.1	25.3	0.0	0.0	0.0	3.5	5.8	0.2	0.0	5.8	92.2	264.9
APR	-3.9	22.1	24.0	0.0	0.0	0.0	3.8	5.4	0.1	0.0	5.4	87.2	250.8
MAY	-4.0	39.0	27.3	0.0	0.0	0.0	6.3	5.5	0.1	0.0	5.5	98.6	284.8
JUN	-3.7	60.8	29.9	0.0	0.0	0.0	9.1	5.2	0.1	0.0	5.2	107.1	310.9
JUL	-3.6	68.4	30.6	0.0	0.0	0.0	10.3	5.0	0.1	0.0	5.0	109.6	318.8
AUG	-3.9	77.2	33.8	0.0	0.0	0.0	11.6	5.4	0.1	0.0	5.4	120.8	351.7
SEP	-3.2	63.2	28.7	0.0	0.0	0.0	9.4	4.5	0.1	0.0	4.5	102.6	298.8
OCT	-3.7	52.8	29.6	0.0	0.0	0.0	8.0	5.3	0.1	0.0	5.3	106.2	308.2
NOV	-3.5	31.1	25.2	0.0	0.0	0.0	4.9	4.9	0.1	0.0	4.9	90.9	263.0
DEC	-3.6	15.8	23.9	0.0	0.0	0.0	2.8	5.2	0.3	0.0	5.2	86.9	250.2
TOTAL	-45.3	486.9	325.6	0.0	0.0	0.0	75.6	64.2	1.6	0.0	64.2	1175.5	3398.2

These loads are loads into the plant equipment and include all coil loads + pipe loss/gain (if any) + pump work.

NOTE:
For lack of column space, PS-A groups heat rejection energy with cooling energy, while BEPS, BEPU, PS-E, and PS-F report heat rejection energy as a separate category.

One PS-B report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-B** Utility and Fuel Use Summary

WEATHER FILE- CZ06RV2 WYEC2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
EM1 ELECTRICITY													
KWH	25228.	22069.	25308.	23963.	27275.	29859.	30647.	33820.	28743.	29591.	25205.	23920.	325626.
MAX KW	118.6	119.2	117.3	125.0	127.5	144.6	140.7	138.6	145.9	142.4	137.7	131.7	145.9
DAY/HR	11/16	13/16	15/16	4/17	31/14	20/14	10/17	7/10	7/17	1/14	29/17	19/17	9/ 7
FM1 NATURAL-GAS													
THERM	69.	50.	58.	54.	55.	52.	50.	54.	45.	53.	49.	52.	642.
MAX THERM/HR	3.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.1	3.8
DAY/HR	2/ 9	2/ 9	1/ 9	11/ 9	7/ 9	5/ 9	2/ 9	22/ 9	26/ 9	15/ 9	16/16	31/ 9	1/ 2

IMPORTANT NOTE:

More detailed annual information similar to this report is available on the PS-E report and the ES-E report (ES-E includes user-controlled monthly meter read dates).

One PS-C report only (this is a building level report — may be multiple pages depending on amount of plant equipment)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- PS-C Equipment Loads and Energy Use

WEATHER FILE- CZ06RV2 WYEC2

MON	SUM	COOL LOAD (MBTU) (KBTU/HR)	HEAT LOAD (MBTU) (KBTU/HR)	ELEC USE (KWH) (KW)	FUEL USE (MBTU) (KBTU/HR)	Number of hours within each PART LOAD range											TOTAL RUN HOURS
						00	10	20	30	40	50	60	70	80	90	100	
	PEAK					10	20	30	40	50	60	70	80	90	100	+	

Boiler 1 (HWNatDraft)																	
	SUM		-0.5		1.4	LOAD	11	0	1	0	1	0	0	0	0	0	13
	PEAK		-252.9		354.9	FUEL	4	6	2	0	0	1	0	0	0	0	13
	MON/DAY		1/ 2		1/ 2												
Chiller 1 (ElecRecipHerm)																	
	SUM	486.9		50853.4		LOAD1001	502	278	361	382	410	219	35	0	0	0	3188
	PEAK	448.9		37.1		ELEC 441	636	415	278	361	402	444	199	12	0	0	3188
	MON/DAY	6/20		6/20													
Open Tower																	
	SUM	714.0		904.5		LOAD	0	0	0	0	3125	57	6	0	0	0	3188
	PEAK	581.2		1.5		ELEC 482	392	336	388	172	51	6	0	0	0	0	1827
	MON/DAY	6/20		6/20													
Domestic Water Heater																	
	SUM		-44.8		67.0	LOAD2580	0	0	0	0	0	0	0	0	0	0	2580
	PEAK		-19.9		28.0	FUEL8760	0	0	0	0	0	0	0	0	0	0	8760
	MON/DAY		3/ 1		3/ 1												
CHW Loop Pump																	
	SUM			1538.2		FLOW1040	541	496	454	452	178	27	0	0	0	0	3188
	PEAK			1.1		RPM	0	0	0	0	979	2150	59	0	0	0	3188
	MON/DAY			6/20		ELEC	0	1949	990	245	4	0	0	0	0	0	3188
HW Loop Pump																	
	SUM			1130.6		FLOW	0	0	0	0	0	0	0	0	0	0	3188
	PEAK			0.4		RPM	0	0	0	0	0	0	0	0	0	0	3188
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	3188
CW Loop Pump																	
	SUM			6937.0		FLOW	0	0	0	0	0	0	0	0	0	0	3188
	PEAK			2.2		RPM	0	0	0	0	0	0	0	0	0	0	3188
	MON/DAY			1/ 2		ELEC	0	0	0	0	0	0	0	0	0	0	3188

SUM = Btu X 1,000,000
PEAK = Btu x 1,000

In the case of one chiller (this example), these loads will match the Circulation Loop loads on PS-D.

NOTE:

For more detailed reporting of this type of information, see the PS-H report (one report per piece of central plant equipment).

USAGE NOTE:

Use PEAK values and PART LOAD hours from this report to check the adequacy of plant equipment sizes. Compare PEAK sizes on this report (reported in KBTU) with equipment CAPACITY (etc.) from the PV-A report (often reported in MBTU).

In this example, the PV-A reports the chiller size = 0.570 MBTU (570 KBTU). PS-C reports chiller PEAK = 448.9 KBTU, hence, the peak load represents 79% (448.9/570.0) of the installed chiller size (agrees with the 70-80% part load range as the highest load range).

**** Important Report ****

One PS-D report only (this is a building level report — may be multiple pages depending on number of circulation loops)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-D** Circulation Loop Loads

WEATHER FILE- CZ06RV2 WYEC2

MON	COIL LOAD		PIPE GAIN (KBTU/HR)	NET LOAD (KBTU/HR)	OVERLOAD (KBTU/HR)	Number of hours within each PART LOAD range											TOTAL RUN HOURS
	SUM (MBTU)	PEAK (KBTU/HR)				00	10	20	30	40	50	60	70	80	90	100	
Chilled Water Loop																	
	SUM	483.2	0.0	486.9	0.0	COOL1014	497	282	357	376	401	224	37	0	0	0	3188
	PEAK	446.0	0.0	448.9	0.0	FLOW1040	541	496	454	452	178	27	0	0	0	0	3188
	MON/DAY	6/20	0/0	6/20	0/0												
Hot Water Loop																	
	SUM	-0.6	0.0	-0.5	0.0	HEAT 11	0	1	0	1	0	0	0	0	0	0	13
	PEAK	-256.8	0.0	-252.9	0.0	FLOW 0	0	0	0	0	0	0	0	0	0	3188	3188
	MON/DAY	1/2	0/0	1/2	0/0												
Condenser Water Loop																	
	SUM	694.8	0.0	714.0	0.0	COOL 658	664	404	310	410	405	289	48	0	0	0	3188
	PEAK	575.7	0.0	581.2	0.0	FLOW 0	0	0	0	0	0	0	0	0	0	3188	3188
	MON/DAY	6/20	0/0	6/20	0/0												
Domestic Hot Water Loop																	
	SUM	-44.8	0.0	-44.8	0.0	HEAT 0	0	312	0	0	0	0	0	0	2070	198	2580
	PEAK	-19.9	0.0	-19.9	0.0	FLOW6180	0	312	0	0	0	0	0	0	0	2268	8760
	MON/DAY	3/1	0/0	3/1	0/0												

These units apply to these items

If all cooling coils in the building were CHW coils, these coil loads would match those reported on SS-D. In this example, CHW coils serve the first two floors, DX coils serve the third (top) floor.

Compare these loads (CHW loop loads) with those reported on PS-C (central plant equipment loads). In this case, since there is only one chiller, these loads agree with those reported on LS-C.

**** Important Report ****

Two PS-E reports (one Electric, one Fuel, this is a building level report — two-page report — page 1 of 2)

3-Story Office Bldg

NOTE: see comments on page 2 of 2 (next page).

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-E** Energy End-Use Summary **for all Electric Meters**

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
KWH	5834.	1149.	12078.	301.	2876.	8.	826.	2148.	0.	7.	0.	0.	25228.
MAX KW	37.8	5.6	42.6	21.6	35.9	0.4	3.1	10.4	0.0	3.4	0.0	0.0	118.6
DAY/HR	24/17	2/ 9	2/ 9	2/ 9	11/13	18/13	11/13	12/16	0/ 0	8/ 8	0/ 0	0/ 0	11/16
PEAK ENDUSE	23.8	5.6	42.6	0.0	33.0	0.3	3.0	10.3	0.0	0.0	0.0	0.0	
PEAK PCT	20.1	4.7	35.9	0.0	27.8	0.2	2.6	8.7	0.0	0.0	0.0	0.0	
FEB													
KWH	4595.	998.	10596.	139.	3062.	13.	725.	1940.	0.	0.	0.	0.	22069.
MAX KW	31.7	5.6	42.6	3.3	35.6	0.5	3.1	10.5	0.0	0.0	0.0	0.0	119.2
DAY/HR	8/17	1/ 9	1/ 9	3/ 9	13/16	16/13	16/13	13/16	0/ 0	8/ 8	0/ 0	0/ 0	13/16
PEAK ENDUSE	21.6	5.6	42.6	0.0	35.6	0.3	3.1	10.5	0.0	0.0	0.0	0.0	
PEAK PCT	18.1	4.7	35.7	0.0	29.9	0.3	2.6	8.8	0.0	0.0	0.0	0.0	
MAR													
KWH	4965.	1159.	12381.	152.	3523.	16.	848.	2264.	0.	0.	0.	0.	25308.
MAX KW	22.4	5.6	42.6	4.1	38.8	0.5	3.1	9.8	0.0	0.0	0.0	0.0	117.3
DAY/HR	14/17	1/ 9	1/ 9	26/11	16/13	16/13	16/13	6/16	0/ 0	8/ 8	0/ 0	0/ 0	15/16
PEAK ENDUSE	19.0	5.6	42.6	0.0	36.9	0.4	3.1	9.7	0.0	0.0	0.0	0.0	
PEAK PCT	16.2	4.8	36.3	0.0	31.5	0.4	2.6	8.3	0.0	0.0	0.0	0.0	
APR													
KWH	4427.	1099.	11584.	121.	3740.	19.	774.	2200.	0.	0.	0.	0.	23963.
MAX KW	21.0	5.6	42.6	3.4	43.3	0.5	3.2	10.8	0.0	0.0	0.0	0.0	125.0
DAY/HR	2/ 9	2/ 9	2/ 9	30/11	4/17	23/12	4/17	4/17	0/ 0	8/ 8	0/ 0	0/ 0	4/17
PEAK ENDUSE	19.2	5.6	42.6	0.0	43.3	0.4	3.2	10.8	0.0	0.0	0.0	0.0	
PEAK PCT	15.3	4.5	34.0	0.0	34.6	0.3	2.5	8.6	0.0	0.0	0.0	0.0	
MAY													
KWH	4469.	1149.	12078.	107.	6203.	62.	819.	2387.	0.	0.	0.	0.	27275.
MAX KW	18.7	5.6	42.6	2.9	48.8	0.8	3.3	10.4	0.0	0.0	0.0	0.0	127.5
DAY/HR	9/ 9	1/ 9	1/ 9	23/ 8	31/14	31/14	31/14	30/17	0/ 0	8/ 8	0/ 0	0/ 0	31/14
PEAK ENDUSE	16.3	5.6	42.6	0.0	48.8	0.8	3.3	10.2	0.0	0.0	0.0	0.0	
PEAK PCT	12.7	4.4	33.4	0.0	38.2	0.7	2.6	8.0	0.0	0.0	0.0	0.0	
JUN													
KWH	4352.	1108.	11887.	77.	8974.	139.	843.	2478.	0.	0.	0.	0.	29859.
MAX KW	18.3	5.6	42.6	3.3	64.2	1.5	3.6	11.1	0.0	0.0	0.0	0.0	144.6
DAY/HR	1/ 9	1/ 9	1/ 9	15/ 8	20/14	20/14	20/14	21/17	0/ 0	8/ 8	0/ 0	0/ 0	20/14
PEAK ENDUSE	16.3	5.6	42.6	0.0	64.2	1.5	3.6	10.8	0.0	0.0	0.0	0.0	
PEAK PCT	11.2	3.9	29.4	0.0	44.4	1.1	2.5	7.5	0.0	0.0	0.0	0.0	
JUL													
KWH	4267.	1099.	11584.	62.	10149.	163.	833.	2491.	0.	0.	0.	0.	30647.
MAX KW	18.5	5.6	42.6	3.0	58.8	1.2	3.5	11.5	0.0	0.0	0.0	0.0	140.7
DAY/HR	17/ 9	2/ 9	2/ 9	26/ 8	10/17	10/11	11/10	10/17	0/ 0	8/ 8	0/ 0	0/ 0	10/17
PEAK ENDUSE	17.8	5.6	42.6	0.0	58.8	1.0	3.4	11.5	0.0	0.0	0.0	0.0	
PEAK PCT	12.7	4.0	30.3	0.0	41.8	0.7	2.4	8.2	0.0	0.0	0.0	0.0	
AUG													
KWH	4745.	1200.	12572.	65.	11397.	181.	905.	2756.	0.	0.	0.	0.	33820.
MAX KW	19.4	5.6	42.6	2.9	56.9	1.0	3.4	12.1	0.0	0.0	0.0	0.0	138.6
DAY/HR	31/ 9	1/ 9	1/ 9	27/ 8	7/10	9/11	7/10	6/ 9	0/ 0	8/ 8	0/ 0	0/ 0	7/10
PEAK ENDUSE	17.5	5.6	42.6	0.0	56.9	1.0	3.4	11.6	0.0	0.0	0.0	0.0	
PEAK PCT	12.6	4.1	30.7	0.0	41.1	0.7	2.4	8.3	0.0	0.0	0.0	0.0	

Two PS-E reports (one Electric, one Fuel, this is a building level report — two-page report — page 1 of 2)

3-Story Office Bldg

NOTE: see comments on the previous page.

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-E** Energy End-Use Summary **for all Fuel Meters**

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
MBTU	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	6.	0.	7.
MAX MBTU/HR	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	17/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	92.8	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0
FEB													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
MAR													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	6.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 9	0/ 0	1/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
APR													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	11/ 9	0/ 0	11/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
MAY													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.	0.	6.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	7/ 9	0/ 0	7/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
JUN													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	5/ 9	0/ 0	5/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
JUL													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
AUG													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	22/ 9	0/ 0	22/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0

Two PS-E reports (one Electric, one Fuel, this is a building level report — two-page report — page 2 of 2)

3-Story Office Bldg

NOTE: see comments on page 2 of 2 on the previous report.

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-E** Energy End-Use Summary for all Fuel Meters

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

SEP													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	26/ 9	0/ 0	26/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
OCT													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	15/ 9	0/ 0	15/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
NOV													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	16/16	0/ 0	16/16
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
DEC													
MBTU	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	5.
MAX MBTU/HR	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
DAY/HR	0/ 0	0/ 0	0/ 0	31/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	24/ 9	0/ 0	31/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	75.4	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
MBTU	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	63.	0.	64.
MAX MBTU/HR	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
MON/DY	0/ 0	0/ 0	0/ 0	1/ 2	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	3/ 1	0/ 0	1/ 2
PEAK ENDUSE	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PEAK PCT	0.0	0.0	0.0	92.8	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	

GENERATORS:

Fuel consumed by electric generators and consumed on-site is allocated to the building end-uses. However, the portion of fuel used to generate power that is sold to a utility, if any, is not allocated to any of these categories, but is included in the total. In this case, the total will not match the sum of the reported end-uses.

**** Important Report ****

One PS-F report per METER (two-page report — page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-F** Energy End-Use Summary for **EMI (Elec #1 the default)**

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
KWH	5834.	1149.	12078.	301.	2876.	8.	826.	2148.	0.	7.	0.	0.	25228.
MAX KW	37.8	5.6	42.6	21.6	35.9	0.4	3.1	10.4	0.0	3.4	0.0	0.0	118.6
DAY/HR	24/17	2/ 9	2/ 9	2/ 9	11/13	18/13	11/13	12/16	0/ 0	8/ 8	0/ 0	0/ 0	11/16
PEAK ENDUSE	23.8	5.6	42.6	0.0	33.0	0.3	3.0	10.3	0.0	0.0	0.0	0.0	
PEAK PCT	20.1	4.7	35.9	0.0	27.8	0.2	2.6	8.7	0.0	0.0	0.0	0.0	
FEB													
KWH	4595.	998.	10596.	139.	3062.	13.	725.	1940.	0.	0.	0.	0.	22069.
MAX KW	31.7	5.6	42.6	3.3	35.6	0.5	3.1	10.5	0.0	0.0	0.0	0.0	119.2
DAY/HR	8/17	1/ 9	1/ 9	3/ 9	13/16	16/13	16/13	13/16	0/ 0	0/ 0	0/ 0	0/ 0	13/16
PEAK ENDUSE	21.6	5.6	42.6	0.0	35.6	0.3	3.1	10.5	0.0	0.0	0.0	0.0	
PEAK PCT	18.1	4.7	35.7	0.0	29.9	0.3	2.6	8.8	0.0	0.0	0.0	0.0	
MAR													
KWH	4965.	1159.	12381.	152.	3523.	16.	848.	2264.	0.	0.	0.	0.	25308.
MAX KW	22.4	5.6	42.6	4.1	38.8	0.5	3.1	9.8	0.0	0.0	0.0	0.0	117.3
DAY/HR	14/17	1/ 9	1/ 9	26/11	16/13	16/13	16/13	6/16	0/ 0	0/ 0	0/ 0	0/ 0	15/16
PEAK ENDUSE	19.0	5.6	42.6	0.0	36.9	0.4	3.1	9.7	0.0	0.0	0.0	0.0	
PEAK PCT	16.2	4.8	36.3	0.0	31.5	0.4	2.6	8.3	0.0	0.0	0.0	0.0	
APR													
KWH	4427.	1099.	11584.	121.	3740.	19.	774.	2200.	0.	0.	0.	0.	23963.
MAX KW	21.0	5.6	42.6	3.4	43.3	0.5	3.2	10.8	0.0	0.0	0.0	0.0	125.0
DAY/HR	2/ 9	2/ 9	2/ 9	30/11	4/17	23/12	4/17	4/17	0/ 0	0/ 0	0/ 0	0/ 0	4/17
PEAK ENDUSE	19.2	5.6	42.6	0.0	43.3	0.4	3.2	10.8	0.0	0.0	0.0	0.0	
PEAK PCT	15.3	4.5	34.0	0.0	34.6	0.3	2.5	8.6	0.0	0.0	0.0	0.0	
MAY													
KWH	4469.	1149.	12078.	107.	6203.	62.	819.	2387.	0.	0.	0.	0.	27275.
MAX KW	18.7	5.6	42.6	2.9	48.8	0.8	3.3	10.4	0.0	0.0	0.0	0.0	127.5
DAY/HR	9/ 9	1/ 9	1/ 9	23/ 8	31/14	31/14	31/14	30/17	0/ 0	0/ 0	0/ 0	0/ 0	31/14
PEAK ENDUSE	16.3	5.6	42.6	0.0	48.8	0.8	3.3	10.2	0.0	0.0	0.0	0.0	
PEAK PCT	12.7	4.4	33.4	0.0	38.2	0.7	2.6	8.0	0.0	0.0	0.0	0.0	
JUN													
KWH	4352.	1108.	11887.	77.	8974.	139.	843.	2478.	0.	0.	0.	0.	29859.
MAX KW	18.3	5.6	42.6	3.3	64.2	1.5	3.6	11.1	0.0	0.0	0.0	0.0	144.6
DAY/HR	1/ 9	1/ 9	1/ 9	15/ 8	20/14	20/14	20/14	21/17	0/ 0	0/ 0	0/ 0	0/ 0	20/14
PEAK ENDUSE	16.3	5.6	42.6	0.0	64.2	1.5	3.6	10.8	0.0	0.0	0.0	0.0	
PEAK PCT	11.2	3.9	29.4	0.0	44.4	1.1	2.5	7.5	0.0	0.0	0.0	0.0	
JUL													
KWH	4267.	1099.	11584.	62.	10149.	163.	833.	2491.	0.	0.	0.	0.	30647.
MAX KW	18.5	5.6	42.6	3.0	58.8	1.2	3.5	11.5	0.0	0.0	0.0	0.0	140.7
DAY/HR	17/ 9	2/ 9	2/ 9	26/ 8	10/17	10/11	11/10	10/17	0/ 0	0/ 0	0/ 0	0/ 0	10/17
PEAK ENDUSE	17.8	5.6	42.6	0.0	58.8	1.0	3.4	11.5	0.0	0.0	0.0	0.0	
PEAK PCT	12.7	4.0	30.3	0.0	41.8	0.7	2.4	8.2	0.0	0.0	0.0	0.0	
AUG													
KWH	4745.	1200.	12572.	65.	11397.	181.	905.	2756.	0.	0.	0.	0.	33820.
MAX KW	19.4	5.6	42.6	2.9	56.9	1.0	3.4	12.1	0.0	0.0	0.0	0.0	138.6
DAY/HR	31/ 9	1/ 9	1/ 9	27/ 8	7/10	9/11	7/10	6/ 9	0/ 0	0/ 0	0/ 0	0/ 0	7/10
PEAK ENDUSE	17.5	5.6	42.6	0.0	56.9	1.0	3.4	11.6	0.0	0.0	0.0	0.0	
PEAK PCT	12.6	4.1	30.7	0.0	41.1	0.7	2.4	8.3	0.0	0.0	0.0	0.0	

One PS-F report per METER (two-page report — page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-F** Energy End-Use Summary for EMI (Elec #1 the default)

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

SEP													
KWH	4228.	1007.	10899.	64.	9288.	151.	787.	2320.	0.	0.	0.	0.	28743.
MAX KW	21.2	5.6	42.6	3.3	62.9	1.5	3.6	11.6	0.0	0.0	0.0	0.0	145.9
DAY/HR	26/ 9	4/ 9	4/ 9	26/ 8	7/17	24/12	7/17	7/17	0/ 0	0/ 0	0/ 0	0/ 0	7/17
PEAK ENDUSE	18.3	5.6	42.6	0.0	62.9	1.3	3.6	11.6	0.0	0.0	0.0	0.0	
PEAK PCT	12.6	3.8	29.2	0.0	43.1	0.9	2.4	8.0	0.0	0.0	0.0	0.0	
OCT													
KWH	5021.	1149.	12078.	101.	7854.	104.	841.	2443.	0.	0.	0.	0.	29591.
MAX KW	28.1	5.6	42.6	3.4	62.1	1.4	3.6	11.4	0.0	0.0	0.0	0.0	142.4
DAY/HR	31/17	1/ 9	1/ 9	16/ 8	1/14	1/14	1/14	3/16	0/ 0	0/ 0	0/ 0	0/ 0	1/14
PEAK ENDUSE	16.3	5.6	42.6	0.0	62.1	1.4	3.6	10.9	0.0	0.0	0.0	0.0	
PEAK PCT	11.4	3.9	29.9	0.0	43.6	1.0	2.5	7.6	0.0	0.0	0.0	0.0	
NOV													
KWH	5174.	1048.	11090.	145.	4846.	41.	762.	2099.	0.	0.	0.	0.	25205.
MAX KW	39.8	5.6	42.6	4.1	42.9	0.6	3.2	10.8	0.0	0.0	0.0	0.0	137.7
DAY/HR	16/17	1/ 9	1/ 9	13/11	29/15	27/13	27/13	29/15	0/ 0	0/ 0	0/ 0	0/ 0	29/17
PEAK ENDUSE	36.3	5.6	42.6	0.0	39.2	0.4	3.1	10.5	0.0	0.0	0.0	0.0	
PEAK PCT	26.4	4.1	30.9	0.0	28.5	0.3	2.3	7.6	0.0	0.0	0.0	0.0	
DEC													
KWH	5586.	1058.	11393.	260.	2770.	7.	803.	2043.	0.	0.	0.	0.	23920.
MAX KW	40.6	5.6	42.6	8.2	39.4	0.4	3.1	10.7	0.0	0.0	0.0	0.0	131.7
DAY/HR	3/17	3/ 9	3/ 9	31/ 9	19/15	19/15	20/14	20/16	0/ 0	0/ 0	0/ 0	0/ 0	19/17
PEAK ENDUSE	35.9	5.6	42.6	0.0	34.3	0.2	3.1	10.1	0.0	0.0	0.0	0.0	
PEAK PCT	27.3	4.3	32.3	0.0	26.0	0.2	2.3	7.6	0.0	0.0	0.0	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
KWH	57663.	13224.	140219.	1594.	74682.	905.	9765.	27568.	0.	7.	0.	0.	325626.
MAX KW	40.6	5.6	42.6	21.6	64.2	1.5	3.6	12.1	0.0	3.4	0.0	0.0	145.9
MON/DY	12/ 3	1/ 2	1/ 2	1/ 2	6/20	6/20	6/20	8/ 6	0/ 0	1/ 8	0/ 0	0/ 0	9/ 7
PEAK ENDUSE	18.3	5.6	42.6	0.0	62.9	1.3	3.6	11.6	0.0	0.0	0.0	0.0	
PEAK PCT	12.6	3.8	29.2	0.0	43.1	0.9	2.4	8.0	0.0	0.0	0.0	0.0	

YEARLY TRANSFORMER LOSSES = 0.0 KWH

IMPORTANT NOTE:

One PS-F report is printed per meter. Since most users allow the meters to default (one master meter per fuel type, e.g., electric and gas), the PS-F reports are normally identical to the PS-E reports (PS-E reports print one report for all electric use, and one for all gas use.)

IMPORTANT NOTE:

A description of eQUEST/DOE-2.2 end use reporting categories is provided at the end of this sample listing.

**** Important Report ****

One PS-F report per METER (two-page report — page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-F** Energy End-Use Summary for **FMI (Fuel Meter #1 the default)**

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
JAN													
THERM	0.	0.	0.	12.	0.	0.	0.	0.	0.	0.	56.	0.	69.
MAX THERM/HR	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	3.8
DAY/HR	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	17/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	92.8	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	
FEB													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	50.	0.	50.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
MAR													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	58.	0.	58.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	1/ 9	0/ 0	1/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
APR													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	54.	0.	54.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	11/ 9	0/ 0	11/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
MAY													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	55.	0.	55.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	7/ 9	0/ 0	7/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
JUN													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	52.	0.	52.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	5/ 9	0/ 0	5/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
JUL													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	50.	0.	50.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	2/ 9	0/ 0	2/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
AUG													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	54.	0.	54.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	22/ 9	0/ 0	22/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	

One PS-F report per METER (two-page report — page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-F** Energy End-Use Summary for FM1 (Fuel Meter #1 the default)

WEATHER FILE- CZ06RV2 WYEC2

----- (CONTINUED) -----

SEP													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	45.	0.	45.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	26/ 9	0/ 0	26/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
OCT													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	53.	0.	53.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	15/ 9	0/ 0	15/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
NOV													
THERM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	49.	0.	49.
MAX THERM/HR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	16/16	0/ 0	16/16
PEAK ENDUSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PEAK PCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
DEC													
THERM	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	51.	0.	52.
MAX THERM/HR	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.1
DAY/HR	0/ 0	0/ 0	0/ 0	31/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	24/ 9	0/ 0	31/ 9
PEAK ENDUSE	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PEAK PCT	0.0	0.0	0.0	75.4	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0	
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
THERM	0.	0.	0.	14.	0.	0.	0.	0.	0.	0.	628.	0.	642.
MAX THERM/HR	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	3.8
MON/DY	0/ 0	0/ 0	0/ 0	1/ 2	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	3/ 1	0/ 0	1/ 2
PEAK ENDUSE	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
PEAK PCT	0.0	0.0	0.0	92.8	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	

IMPORTANT NOTE:

One PS-F report is printed per meter. Since most users allow the meters to default (one master meter per fuel type, e.g., electric and gas), the PS-F reports are normally identical to the PS-E reports (PS-E reports print one report for all electric use, and one for all gas use.)

IMPORTANT NOTE:

A description of eQUEST/DOE-2.2 end use reporting categories is provided at the end of this sample listing.

**** Important Report ****

One BEPS report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **BEPS** Building Energy Performance

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY MBTU	196.8	45.1	478.6	5.4	254.9	3.1	33.3	94.1	0.0	0.0	0.0	0.0	1111.4
FM1 NATURAL-GAS MBTU	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	62.8	0.0	64.2
MBTU	196.8	45.1	478.6	6.8	254.9	3.1	33.3	94.1	0.0	0.0	62.8	0.0	1175.5

These results, by end-use, are reported in more detail on the ES-E & ES-F reports (but see note on PV below).

TOTAL SITE ENERGY 1175.54 MBTU 30.1 KBTU/SQFT-YR GROSS-AREA 30.1 KBTU/SQFT-YR NET-AREA
 TOTAL SOURCE ENERGY 3398.25 MBTU 87.1 KBTU/SQFT-YR GROSS-AREA 87.1 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 4.1
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

HOURS OUTSIDE THROTTLING RANGE:

The denominator used for this % calculation is the # of hours at least one system is running. For example, a bldg with two fan systems running 12 hrs/day & 7 days/wk with identical start/stop hours will yield 4380 total fan hrs (8760 / 2). If the start & stop times for one of these fan schedules is shifted one hour (+/- one hour but still 4380 hrs on each fan), the new total fan hrs = 4745 (4380+365). Total fan hours are reported on SS-E as 'Hours Fans ON' (includes night cycle control hours, if any).

To investigate any hours reported here, examine PS-D, PS-C, and PS-H to isolate the circulation loop (PS-D), plant equipment (PS-C), time of year & time of day (PS-H) the control problems occur.

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

NOTE:

The BEPS report provides that same results found on the BEPU report. The only difference is the reporting units: the BEPS report uses MBTU (Btu x 1,000,000) while BEPU uses conventional utility units (e.g., kWh, therms).

To calculate the total number of hours outside the throttling range, multiply the percentage reported here by the 'Hours Fans ON' reported on SS-E.

GENERATORS AND PV:

The BEPS report only includes energy drawn or supplied across the building boundary. Energy provided by generators or PV is not included in the BEPS report unless it "flows" through a utility meter (e.g., is supplied back to the utility grid). BEPS does not report energy used within the building. Rather, BEPS reports energy "imported" into or "exported" from the building. PS-E reports energy use within the building, i.e., includes energy imported from the utility grid and provided by any on-site generators and PV.

ENERGY END USES:

A description of eQUEST/DOE-2.2 end use reporting categories is provided at the end of this sample listing. See "End Use Reporting Categories".

ENERGY TYPES:

The energy types shown are those specified with the ELEC-METER, FUEL-METER, STEAM-METER, and CHW-METER commands in PLANT.

IMPORTANT NOTE:

Any hours outside throttling range that occur during night cycle control hours are included in the total hours outside throttling range implied in the percentage above. Any hours outside throttling range that occur during night venting hours or during natural ventilation hours are excluded.

To investigate any hours outside the throttling range, see SS-R, then SS-F, and SS-O to isolate the system & zone (SS-R), time of year (SS-F), and time of day (SS-O) the control problems occur. In eQUEST's Detailed Interface, see also the Air-Side Summary report.

**** Important Report ****

One BEPU report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **BEPU** Building Utility Performance

WEATHER FILE- CZ06RV2 WYEC2

	LIGHTS	TASK LIGHTS	MISC EQUIP	SPACE HEATING	SPACE COOLING	HEAT REJECT	PUMPS & AUX	VENT FANS	REFRIG DISPLAY	HT PUMP SUPPLEM	DOMEST HOT WTR	EXT USAGE	TOTAL
EM1 ELECTRICITY													
KWH	57663.	13224.	140219.	1594.	74682.	905.	9765.	27568.	0.	7.	0.	0.	325626.
FM1 NATURAL-GAS													
THERM	0.	0.	0.	14.	0.	0.	0.	0.	0.	0.	628.	0.	642.

These results, by end-use, are reported in more detail on the ES-E & ES-F reports (but see note on PV below).

TOTAL ELECTRICITY	325626. KWH	8.349 KWH /SQFT-YR GROSS-AREA	8.349 KWH /SQFT-YR NET-AREA
TOTAL NATURAL-GAS	642. THERM	0.016 THERM /SQFT-YR GROSS-AREA	0.016 THERM /SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE	= 4.1
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED	= 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

To investigate any hours reported here, examine PS-D, PS-C, and PS-H to isolate the circulation loop (PS-D), plant equipment (PS-C), time of year & time of day (PS-H) the control problems occur.

NOTE:

The BEPU report provides that same results found on the BEPS report. The only difference is the reporting units: BEPU uses conventional utility units (e.g., kWh, therms), while the BEPS report uses MBTU (Btu x1,000,000).

ENERGY END USES:

A description of eQUEST/DOE-2.2 end use reporting categories is provided at the end of this sample listing.

ENERGY TYPES:

The energy types shown are those specified using ELEC-METER, FUEL-METER, STEAM-METER, and CHW-METER commands in PLANT, therefore, one energy type is reported for each UTILITY METER specified.

GENERATORS AND PV:

The BEPU report only includes energy drawn or supplied across the building boundary. Energy provided by generators or PV is not included in the BEPU report unless it "flows" through a utility meter (e.g., is supplied back to the utility grid). BEPS does not report energy used within the building. Rather, BEPU reports energy "imported" into or "exported" from the building. PS-E reports energy use within the building, i.e., includes energy imported from the utility grid and provided by any on-site generators and PV.

HOURS OUTSIDE THROTTLING RANGE:

The denominator used for this % calculation is the # of hours at least one system is running. For example, a bldg with two fan systems running 12 hrs/day & 7 days/wk with identical start/stop hours will yield 4380 total fan hrs (8760 / 2). If the start & stop times for one of these fan schedules is shifted one hour (+/- one hour but still 4380 hrs on each fan), the new total fan hrs = 4745 (4380+365). Total fan hours are reported on SS-E as 'Hours Fans ON' (includes night cycle control hours, if any).

To calculate the total number of hours outside the throttling range, multiply the percentage reported here by the 'Hours Fans ON' reported on SS-E.

IMPORTANT NOTE:

Any hours outside throttling range that occur during night cycle control hours are included in the total hours outside throttling range implied in the percentage above. Any hours outside throttling range that occur during night venting hours or during natural ventilation hours are excluded.

To investigate any hours outside the throttling range, see SS-R, then SS-F, and SS-O to isolate the system & zone (SS-R), time of year (SS-F), and time of day (SS-O) the control problems occur. In eQUEST's Detailed Interface, see also the Air-Side Summary report.

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (1 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Chilled Water Loop WEATHER FILE- CZ06RV2 WYEC2

HEATING CAPACITY (MBTU/HR)		COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)								
0.000		0.570	112.4	56.6	0.0	0.00	0.0	0.00	168.7	1.00								
SUM		COIL LOAD (MBTU)	PIPE GAIN (MBTU)	NET LOAD (MBTU)	OVERLOAD (MBTU)	Number of hours within each						PART LOAD	range		TOTAL RUN			
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	+	HOURS
JAN	SUM	16.288	0.000	16.523	0.000	COOL	157	61	34	21	1	0	0	0	0	0	0	274
	PEAK	239.922	0.000	241.213	0.000	FLOW	160	62	47	5	0	0	0	0	0	0	0	274
	DAY/HR	11/13	0/ 0	11/13	0/ 0													
FEB	SUM	18.729	0.000	18.942	0.000	COOL	103	65	43	28	2	0	0	0	0	0	0	241
	PEAK	241.127	0.000	242.548	0.000	FLOW	111	71	50	9	0	0	0	0	0	0	0	241
	DAY/HR	16/13	0/ 0	16/13	0/ 0													
MAR	SUM	20.816	0.000	21.060	0.000	COOL	138	62	40	36	6	0	0	0	0	0	0	282
	PEAK	253.296	0.000	254.649	0.000	FLOW	142	69	54	17	0	0	0	0	0	0	0	282
	DAY/HR	16/13	0/ 0	16/13	0/ 0													
APR	SUM	21.895	0.000	22.133	0.000	COOL	125	54	32	33	19	0	0	0	0	0	0	263
	PEAK	280.477	0.000	281.863	0.000	FLOW	139	57	42	25	0	0	0	0	0	0	0	263
	DAY/HR	4/17	0/ 0	4/17	0/ 0													
MAY	SUM	38.682	0.000	38.972	0.000	COOL	88	28	26	58	51	23	0	0	0	0	0	274
	PEAK	329.823	0.000	331.804	0.000	FLOW	89	41	63	60	21	0	0	0	0	0	0	274
	DAY/HR	31/14	0/ 0	31/14	0/ 0													
JUN	SUM	60.384	0.000	60.779	0.000	COOL	39	31	12	24	64	59	29	13	0	0	0	271
	PEAK	446.007	0.000	448.920	0.000	FLOW	41	34	26	67	67	23	13	0	0	0	0	271
	DAY/HR	20/14	0/ 0	20/14	0/ 0													
JUL	SUM	67.930	0.000	68.356	0.000	COOL	21	30	8	15	33	91	64	1	0	0	0	263
	PEAK	403.450	0.000	406.021	0.000	FLOW	19	34	19	38	98	55	0	0	0	0	0	263
	DAY/HR	11/10	0/ 0	11/10	0/ 0													
AUG	SUM	76.741	0.000	77.209	0.000	COOL	12	44	1	7	34	101	86	0	0	0	0	285
	PEAK	389.758	0.000	393.278	0.000	FLOW	10	46	5	41	135	48	0	0	0	0	0	285
	DAY/HR	7/10	0/ 0	7/10	0/ 0													
SEP	SUM	62.847	0.000	63.244	0.000	COOL	23	21	8	17	51	83	33	13	0	0	0	249
	PEAK	440.722	0.000	443.465	0.000	FLOW	20	24	22	56	83	36	8	0	0	0	0	249
	DAY/HR	7/17	0/ 0	7/17	0/ 0													
OCT	SUM	52.421	0.000	52.792	0.000	COOL	54	29	25	36	65	43	12	10	0	0	0	274
	PEAK	432.761	0.000	435.498	0.000	FLOW	52	36	49	67	48	16	6	0	0	0	0	274
	DAY/HR	1/14	0/ 0	1/14	0/ 0													
NOV	SUM	30.806	0.000	31.065	0.000	COOL	94	28	25	62	42	1	0	0	0	0	0	252
	PEAK	284.898	0.000	286.494	0.000	FLOW	93	28	73	58	0	0	0	0	0	0	0	252
	DAY/HR	2/16	0/ 0	2/16	0/ 0													
DEC	SUM	15.626	0.000	15.845	0.000	COOL	160	44	28	20	8	0	0	0	0	0	0	260
	PEAK	262.630	0.000	263.665	0.000	FLOW	164	39	46	11	0	0	0	0	0	0	0	260
	DAY/HR	19/15	0/ 0	19/15	0/ 0													

One PS-H report for each piece of PLANT EQUIPMENT (1 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Chilled Water Loop

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

YR	SUM	483.165	0.000	486.920	0.000	COOL1014	497	282	357	376	401	224	37	0	0	0	3188
	PEAK	446.007	0.000	448.920	0.000	FLOW1040	541	496	454	452	178	27	0	0	0	0	3188
	MON/DAY	6/20	0/ 0	6/20	0/ 0												

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (2 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Hot Water Loop

WEATHER FILE- CZ06RV2 WYEC2

		HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)							
		-0.507	0.000	25.4	36.6	0.0	0.00	0.0	0.00	38.1	1.00							
		COIL LOAD (MBTU)	PIPE GAIN (MBTU)	NET LOAD (MBTU)	OVERLOAD (MBTU)	Number of hours within each PART LOAD range											TOTAL RUN HOURS	
		(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	+	
		DAY/HR	DAY/HR	DAY/HR	DAY/HR	10	20	30	40	50	60	70	80	90	100			
JAN	SUM	-0.551	0.000	-0.532	0.000	HEAT	9	0	1	0	1	0	0	0	0	0	0	11
	PEAK	-256.825	0.000	-252.888	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0													
FEB	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	241	241
	DAY/HR	5/ 9	0/ 0	0/ 0	0/ 0													
MAR	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	282	282
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
APR	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	263	263
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
MAY	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
JUN	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	271	271
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
JUL	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	263	263
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
AUG	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	285	285
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
SEP	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	249	249
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
OCT	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0													
NOV	SUM	0.000	0.000	0.000	0.000	HEAT	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	252	252
	DAY/HR	13/ 9	0/ 0	0/ 0	0/ 0													
DEC	SUM	-0.020	0.000	-0.010	0.000	HEAT	2	0	0	0	0	0	0	0	0	0	0	2
	PEAK	-12.780	0.000	-8.584	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	260	260
	DAY/HR	31/ 9	0/ 0	31/ 9	0/ 0													

One PS-H report for each piece of PLANT EQUIPMENT (2 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Hot Water Loop

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

YR	SUM	-0.571	0.000	-0.543	0.000	HEAT	11	0	1	0	1	0	0	0	0	0	0	13
	PEAK	-256.825	0.000	-252.888	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	3188	3188
	MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0													

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (3 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Condenser Water Loop

WEATHER FILE- CZ06RV2 WYEC2

HEATING CAPACITY (MBTU/HR)		COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)								
0.000		0.727	144.1	61.6	0.0	0.00	0.0	0.00	216.1	1.00								
MON	SUM	COIL LOAD (MBTU)	PIPE GAIN (MBTU)	NET LOAD (MBTU)	OVERLOAD (MBTU)	Number of hours within each PART LOAD range										TOTAL RUN HOURS		
	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	+	
JAN	SUM	28.993	0.000	30.646	0.000	COOL	117	91	39	20	7	0	0	0	0	0	0	274
	PEAK	320.785	0.000	326.461	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	11/13	0/0	11/13	0/0													
FEB	SUM	30.648	0.000	32.098	0.000	COOL	84	58	60	26	13	0	0	0	0	0	0	241
	PEAK	322.523	0.000	328.168	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	241	241
	DAY/HR	16/13	0/0	16/13	0/0													
MAR	SUM	34.635	0.000	36.330	0.000	COOL	110	71	53	34	14	0	0	0	0	0	0	282
	PEAK	337.604	0.000	343.465	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	282	282
	DAY/HR	16/13	0/0	16/13	0/0													
APR	SUM	35.334	0.000	36.916	0.000	COOL	80	84	41	26	31	1	0	0	0	0	0	263
	PEAK	371.258	0.000	377.027	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	263	263
	DAY/HR	4/17	0/0	4/17	0/0													
MAY	SUM	56.060	0.000	57.706	0.000	COOL	53	52	28	43	75	22	1	0	0	0	0	274
	PEAK	433.012	0.000	438.755	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	31/14	0/0	31/14	0/0													
JUN	SUM	82.649	0.000	84.278	0.000	COOL	10	45	26	18	56	62	39	15	0	0	0	271
	PEAK	575.665	0.000	581.229	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	271	271
	DAY/HR	20/14	0/0	20/14	0/0													
JUL	SUM	91.678	0.000	93.259	0.000	COOL	1	32	25	11	28	75	87	4	0	0	0	263
	PEAK	523.585	0.000	527.843	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	263	263
	DAY/HR	11/10	0/0	11/10	0/0													
AUG	SUM	103.378	0.000	105.092	0.000	COOL	0	25	30	6	22	96	105	1	0	0	0	285
	PEAK	508.031	0.000	512.778	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	285	285
	DAY/HR	7/10	0/0	7/10	0/0													
SEP	SUM	85.021	0.000	86.518	0.000	COOL	2	30	18	16	40	84	42	17	0	0	0	249
	PEAK	568.896	0.000	574.518	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	249	249
	DAY/HR	7/17	0/0	7/17	0/0													
OCT	SUM	72.910	0.000	74.561	0.000	COOL	23	46	31	37	54	57	15	11	0	0	0	274
	PEAK	559.400	0.000	564.615	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	274	274
	DAY/HR	1/14	0/0	1/14	0/0													
NOV	SUM	45.747	0.000	47.263	0.000	COOL	61	50	24	53	56	8	0	0	0	0	0	252
	PEAK	377.122	0.000	383.039	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	252	252
	DAY/HR	2/16	0/0	2/16	0/0													
DEC	SUM	27.785	0.000	29.350	0.000	COOL	117	80	29	20	14	0	0	0	0	0	0	260
	PEAK	348.714	0.000	354.533	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	260	260
	DAY/HR	19/15	0/0	19/15	0/0													

One PS-H report for each piece of PLANT EQUIPMENT (3 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Condenser Water Loop WEATHER FILE- CZ06RV2 WYEC2
 ----- (CONTINUED) -----

		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	694.838	0.000	714.020	0.000	COOL	658	664	404	310	410	405	289	48	0	0	0	3188
	PEAK	575.665	0.000	581.229	0.000	FLOW	0	0	0	0	0	0	0	0	0	0	3188	3188
	MON/DAY	6/20	0/ 0	6/20	0/ 0													

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (4 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Domestic Hot Water Loop

WEATHER FILE- CZ06RV2 WYEC2

		HEATING CAPACITY (MBTU/HR)	COOLING CAPACITY (MBTU/HR)	LOOP FLOW (GAL/MIN)	TOTAL HEAD (FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT (F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT (F)	LOOP VOLUME (GAL)	FLUID HEAT CAPACITY (BTU/LB-F)						TOTAL RUN HOURS
		-0.020	0.000	0.5	0.0	0.0	0.00	0.0	0.00	0.8	1.00						
		COIL LOAD (MBTU)	PIPE GAIN (MBTU)	NET LOAD (MBTU)	OVERLOAD (MBTU)	Number of hours within each PART LOAD range										TOTAL RUN HOURS	
		(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	+
MON	PEAK	DAY/HR	DAY/HR	DAY/HR	DAY/HR	10	20	30	40	50	60	70	80	90	100	+	HOURS
JAN	SUM	-4.020	0.000	-4.020	0.000	HEAT 0	0	24	0	0	0	0	0	0	198	0	222
	PEAK	-19.644	0.000	-19.644	0.000	FLOW 522	0	24	0	0	0	0	0	0	0	198	744
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0												
FEB	SUM	-3.537	0.000	-3.537	0.000	HEAT 0	0	24	0	0	0	0	0	0	171	0	195
	PEAK	-19.907	0.000	-19.907	0.000	FLOW 477	0	24	0	0	0	0	0	0	0	171	672
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
MAR	SUM	-4.112	0.000	-4.112	0.000	HEAT 0	0	30	0	0	0	0	0	0	0	198	228
	PEAK	-19.928	0.000	-19.928	0.000	FLOW 516	0	30	0	0	0	0	0	0	0	198	744
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
APR	SUM	-3.875	0.000	-3.875	0.000	HEAT 0	0	24	0	0	0	0	0	0	189	0	213
	PEAK	-19.803	0.000	-19.803	0.000	FLOW 507	0	24	0	0	0	0	0	0	0	189	720
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0												
MAY	SUM	-3.950	0.000	-3.950	0.000	HEAT 0	0	24	0	0	0	0	0	0	198	0	222
	PEAK	-19.301	0.000	-19.301	0.000	FLOW 522	0	24	0	0	0	0	0	0	0	198	744
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
JUN	SUM	-3.710	0.000	-3.710	0.000	HEAT 0	0	30	0	0	0	0	0	0	189	0	219
	PEAK	-18.802	0.000	-18.802	0.000	FLOW 501	0	30	0	0	0	0	0	0	0	189	720
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
JUL	SUM	-3.594	0.000	-3.594	0.000	HEAT 0	0	24	0	0	0	0	0	0	189	0	213
	PEAK	-18.368	0.000	-18.368	0.000	FLOW 531	0	24	0	0	0	0	0	0	0	189	744
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0												
AUG	SUM	-3.866	0.000	-3.866	0.000	HEAT 0	0	24	0	0	0	0	0	0	207	0	231
	PEAK	-18.094	0.000	-18.094	0.000	FLOW 513	0	24	0	0	0	0	0	0	0	207	744
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
SEP	SUM	-3.241	0.000	-3.241	0.000	HEAT 0	0	30	0	0	0	0	0	0	171	0	201
	PEAK	-18.071	0.000	-18.071	0.000	FLOW 519	0	30	0	0	0	0	0	0	0	171	720
	DAY/HR	4/ 9	0/ 0	4/ 9	0/ 0												
OCT	SUM	-3.744	0.000	-3.744	0.000	HEAT 0	0	24	0	0	0	0	0	0	198	0	222
	PEAK	-18.294	0.000	-18.294	0.000	FLOW 522	0	24	0	0	0	0	0	0	0	198	744
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
NOV	SUM	-3.494	0.000	-3.494	0.000	HEAT 0	0	24	0	0	0	0	0	0	180	0	204
	PEAK	-18.716	0.000	-18.716	0.000	FLOW 516	0	24	0	0	0	0	0	0	0	180	720
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0												
DEC	SUM	-3.616	0.000	-3.616	0.000	HEAT 0	0	30	0	0	0	0	0	0	180	0	210
	PEAK	-19.200	0.000	-19.200	0.000	FLOW 534	0	30	0	0	0	0	0	0	0	180	744
	DAY/HR	3/ 9	0/ 0	3/ 9	0/ 0												

One PS-H report for each piece of PLANT EQUIPMENT (4 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Domestic Hot Water Loop

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
YR	SUM	-44.759	0.000	-44.759	0.000	HEAT	0	0	312	0	0	0	0	0	0	2070	198	2580
	PEAK	-19.928	0.000	-19.928	0.000	FLOW	6180	0	312	0	0	0	0	0	0	0	2268	8760
	MON/DAY	3/ 1	0/ 0	3/ 1	0/ 0													

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (5 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Boiler 1 (HWNatDraft)

WEATHER FILE- CZ06RV2 WYEC2

EQUIPMENT TYPE		ATTACHED TO				CAPACITY (MBTU/HR)	FLOW (GAL/MIN)			EIR (FRAC)	HIR (FRAC)		AUXILIARY (KW)					
HW-BOILER		Hot Water Loop				-0.507	25.4			0.000	1.250		0.000					
		HEAT LOAD (MBTU)	ELEC USE (KWH)	FUEL USE (MBTU)	AUX ENERGY (KWH)	Number of hours within each PART LOAD range												TOTAL RUN HOURS
MON	SUM PEAK	(KBTU/HR)	(KW)	(KBTU/HR)	(KW)	00	10	20	30	40	50	60	70	80	90	100	+	
DAY/HR	DAY/HR	DAY/HR	DAY/HR	DAY/HR	DAY/HR	LOAD	ELEC	FUEL	LOAD	ELEC	FUEL	LOAD	ELEC	FUEL	LOAD	ELEC	FUEL	
JAN	SUM	-0.532	0.000	1.202	0.000	9	0	1	0	1	0	0	0	0	0	0	0	11
	PEAK	-252.888	0.000	354.909	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0	4	4	2	0	0	1	0	0	0	0	0	0	11
FEB	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAR	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
APR	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAY	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUN	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
JUL	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUG	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
SEP	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
OCT	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOV	SUM	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	0/ 0	0/ 0	0/ 0	0/ 0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEC	SUM	-0.010	0.000	0.154	0.000	2	0	0	0	0	0	0	0	0	0	0	0	2
	PEAK	-8.584	0.000	82.782	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 9	0/ 0	31/ 9	0/ 0	0	2	0	0	0	0	0	0	0	0	0	0	2

One PS-H report for each piece of PLANT EQUIPMENT (5 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Boiler 1 (HWNatDraft)

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	-0.543	0.000	1.357	0.000	LOAD	11	0	1	0	1	0	0	0	0	0	0	13
	PEAK	-252.888	0.000	0.355	0.000	ELEC	0	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY	1/ 2	0/ 0	1/ 2	0/ 0	FUEL	4	6	2	0	0	1	0	0	0	0	0	13

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (6 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Chiller 1 (ElecRecipHerm)

WEATHER FILE- CZ06RV2 WYEC2

EQUIPMENT TYPE		ATTACHED TO		CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	AUXILIARY (KW)										TOTAL RUN HOURS	
ELEC-HERM-REC		Chilled Water Loop Condenser Water Loop		0.570 0.721	113.9 144.1	0.265	0.000											
MON	SUM PEAK	COOL LOAD (MBTU) (KBTU/HR)	HEAT LOAD (MBTU) (KBTU/HR)	ELEC USE (KWH) (KW)	AUX ENERGY (KWH) (KW)	00	10	20	30	40	50	60	70	80	90	100	+	TOTAL RUN HOURS
JAN	SUM	16.523	0.000	2309.795	0.000	LOAD	152	63	35	23	1	0	0	0	0	0	0	274
	PEAK	241.213	0.000	23.315	0.000	ELEC	82	86	50	32	23	1	0	0	0	0	0	274
	DAY/HR	11/13	0/0	11/13	0/0													
FEB	SUM	18.942	0.000	2429.475	0.000	LOAD	102	66	41	29	3	0	0	0	0	0	0	241
	PEAK	242.548	0.000	23.433	0.000	ELEC	56	56	56	40	28	5	0	0	0	0	0	241
	DAY/HR	16/13	0/0	16/13	0/0													
MAR	SUM	21.060	0.000	2735.042	0.000	LOAD	137	62	40	37	6	0	0	0	0	0	0	282
	PEAK	254.649	0.000	24.306	0.000	ELEC	74	72	54	37	38	7	0	0	0	0	0	282
	DAY/HR	16/13	0/0	16/13	0/0													
APR	SUM	22.133	0.000	2757.533	0.000	LOAD	125	54	32	33	19	0	0	0	0	0	0	263
	PEAK	281.863	0.000	26.193	0.000	ELEC	56	79	44	30	35	19	0	0	0	0	0	263
	DAY/HR	4/17	0/0	4/17	0/0													
MAY	SUM	38.972	0.000	4193.897	0.000	LOAD	88	28	24	56	23	0	0	0	0	0	0	274
	PEAK	331.804	0.000	29.654	0.000	ELEC	33	60	23	22	56	58	22	0	0	0	0	274
	DAY/HR	31/14	0/0	31/14	0/0													
JUN	SUM	60.779	0.000	5872.717	0.000	LOAD	38	32	11	25	64	61	27	13	0	0	0	271
	PEAK	448.920	0.000	37.136	0.000	ELEC	6	38	24	13	24	66	66	31	3	0	0	271
	DAY/HR	20/14	0/0	20/14	0/0													
JUL	SUM	68.356	0.000	6415.625	0.000	LOAD	21	30	8	14	34	93	62	1	0	0	0	263
	PEAK	406.021	0.000	34.446	0.000	ELEC	0	19	31	9	14	36	97	57	0	0	0	263
	DAY/HR	11/10	0/0	11/10	0/0													
AUG	SUM	77.209	0.000	7215.313	0.000	LOAD	12	43	2	7	34	103	84	0	0	0	0	285
	PEAK	393.278	0.000	33.623	0.000	ELEC	0	12	33	12	7	35	129	57	0	0	0	285
	DAY/HR	7/10	0/0	7/10	0/0													
SEP	SUM	63.244	0.000	5977.696	0.000	LOAD	22	22	8	17	51	84	33	12	0	0	0	249
	PEAK	443.465	0.000	36.751	0.000	ELEC	1	19	21	10	17	53	85	37	6	0	0	249
	DAY/HR	7/17	0/0	7/17	0/0													
OCT	SUM	52.792	0.000	5280.709	0.000	LOAD	51	30	26	36	64	45	13	9	0	0	0	274
	PEAK	435.498	0.000	36.303	0.000	ELEC	15	42	24	26	36	67	44	17	3	0	0	274
	DAY/HR	1/14	0/0	1/14	0/0													
NOV	SUM	31.065	0.000	3469.950	0.000	LOAD	93	28	24	63	43	1	0	0	0	0	0	252
	PEAK	286.494	0.000	26.554	0.000	ELEC	39	60	23	21	62	46	1	0	0	0	0	252
	DAY/HR	2/16	0/0	2/16	0/0													
DEC	SUM	15.845	0.000	2195.693	0.000	LOAD	160	44	27	21	8	0	0	0	0	0	0	260
	PEAK	263.665	0.000	24.919	0.000	ELEC	79	93	32	26	21	9	0	0	0	0	0	260
	DAY/HR	19/15	0/0	19/15	0/0													

One PS-H report for each piece of PLANT EQUIPMENT (6 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Chiller 1 (ElecRecipHerm)

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	486.920	0.000	50853.445	0.000	LOAD1001	502	278	361	382	410	219	35	0	0	0	3188
	PEAK	448.920	0.000	37.136	0.000	ELEC 441	636	415	278	361	402	444	199	12	0	0	3188
	MON/DAY	6/20	0/ 0	6/20	0/ 0												

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (7 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Open Tower

WEATHER FILE- CZ06RV2 WYEC2

EQUIPMENT TYPE		ATTACHED TO				CAPACITY (MBTU/HR)	FLOW (GAL/MIN)			NUMBER OF CELLS	FAN POWER PER CELL (KW)	SPRAY PWR PER CELL (KW)	AUXILIARY (KW)					
OPEN-TWR		Condenser Water Loop				0.727	145.3			1	2.237	0.000	0.000					
		HTREJ LOAD (MBTU)	ELEC USE (KWH)	AUX ENERGY (KWH)	AUX ENERGY (MBTU)	Number of hours within each PART LOAD range										TOTAL RUN HOURS		
MON	SUM PEAK	(KBTU/HR)	(KW)	(KW)	(KBTU/HR)	00	10	20	30	40	50	60	70	80	90	100	+	
DAY/HR	DAY/HR	DAY/HR	DAY/HR	DAY/HR	DAY/HR	LOAD	ELEC	LOAD	ELEC	LOAD	ELEC	LOAD	ELEC	LOAD	ELEC	LOAD	ELEC	
JAN	SUM	30.646	8.484	0.000	0.000	0	0	0	0	274	0	0	0	0	0	0	0	274
	PEAK	326.461	0.401	0.000	0.000	39	18	0	0	0	0	0	0	0	0	0	0	57
	DAY/HR	11/13	18/13	0/0	0/0													
FEB	SUM	32.098	13.037	0.000	0.000	0	0	0	0	241	0	0	0	0	0	0	0	241
	PEAK	328.168	0.458	0.000	0.000	63	24	1	0	0	0	0	0	0	0	0	0	88
	DAY/HR	16/13	16/13	0/0	0/0													
MAR	SUM	36.330	15.978	0.000	0.000	0	0	0	0	282	0	0	0	0	0	0	0	282
	PEAK	343.465	0.490	0.000	0.000	55	29	2	0	0	0	0	0	0	0	0	0	86
	DAY/HR	16/13	16/13	0/0	0/0													
APR	SUM	36.916	18.566	0.000	0.000	0	0	0	0	263	0	0	0	0	0	0	0	263
	PEAK	377.027	0.514	0.000	0.000	50	34	4	0	0	0	0	0	0	0	0	0	88
	DAY/HR	4/17	23/12	0/0	0/0													
MAY	SUM	57.706	62.402	0.000	0.000	0	0	0	0	274	0	0	0	0	0	0	0	274
	PEAK	438.755	0.838	0.000	0.000	41	70	36	21	0	0	0	0	0	0	0	0	168
	DAY/HR	31/14	31/14	0/0	0/0													
JUN	SUM	84.278	139.489	0.000	0.000	0	0	0	0	250	18	3	0	0	0	0	0	271
	PEAK	581.229	1.550	0.000	0.000	24	32	58	60	25	16	3	0	0	0	0	0	218
	DAY/HR	20/14	20/14	0/0	0/0													
JUL	SUM	93.259	162.900	0.000	0.000	0	0	0	0	256	7	0	0	0	0	0	0	263
	PEAK	527.843	1.233	0.000	0.000	33	14	43	89	54	5	0	0	0	0	0	0	238
	DAY/HR	11/10	10/11	0/0	0/0													
AUG	SUM	105.092	180.871	0.000	0.000	0	0	0	0	285	0	0	0	0	0	0	0	285
	PEAK	512.778	1.034	0.000	0.000	39	12	50	115	56	0	0	0	0	0	0	0	272
	DAY/HR	7/10	9/11	0/0	0/0													
SEP	SUM	86.518	150.823	0.000	0.000	0	0	0	0	225	22	2	0	0	0	0	0	249
	PEAK	574.518	1.452	0.000	0.000	16	31	58	70	26	20	2	0	0	0	0	0	223
	DAY/HR	7/17	24/12	0/0	0/0													
OCT	SUM	74.561	104.070	0.000	0.000	0	0	0	0	263	10	1	0	0	0	0	0	274
	PEAK	564.615	1.449	0.000	0.000	43	44	62	33	11	10	1	0	0	0	0	0	204
	DAY/HR	1/14	1/14	0/0	0/0													
NOV	SUM	47.263	40.609	0.000	0.000	0	0	0	0	252	0	0	0	0	0	0	0	252
	PEAK	383.039	0.603	0.000	0.000	38	72	22	0	0	0	0	0	0	0	0	0	132
	DAY/HR	2/16	27/13	0/0	0/0													
DEC	SUM	29.350	7.294	0.000	0.000	0	0	0	0	260	0	0	0	0	0	0	0	260
	PEAK	354.533	0.359	0.000	0.000	41	12	0	0	0	0	0	0	0	0	0	0	53
	DAY/HR	19/15	19/15	0/0	0/0													

One PS-H report for each piece of PLANT EQUIPMENT (7 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for

Open Tower

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

YR	SUM	714.020	904.522	0.000	0.000	LOAD	0	0	0	0	3125	57	6	0	0	0	0	3188
	PEAK	581.229	1.550	0.000	0.000	ELEC	482	392	336	388	172	51	6	0	0	0	0	1827
	MON/DAY	6/20	6/20	0/0	0/0													

MAXIMUM TOWER SUPPLY TEMPERATURE WAS 90.0F ON 7/ 6 AT 17:00

**** Important Report ****

One PS-H report for each piece of PLANT EQUIPMENT (8 of 8) — two page report (page 1 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Domestic Water Heater

WEATHER FILE- CZ06RV2 WYEC2

EQUIPMENT TYPE		ATTACHED TO				CAPACITY (MBTU/HR)	FLOW (GAL/MIN)	EIR (FRAC)	HIR (FRAC)	AUXILIARY (KW)	TANK (GAL)	TANK UA (BTU/HR-F)						
GAS DW-HEATER		Domestic Hot Water Loop				-0.206	5.3	0.000	1.370	0.000	154.6	6.44						
		HEAT LOAD (MBTU)	ELEC USE (KWH)	FUEL USE (MBTU)	AUX ENERGY (KWH)	Number of hours within each PART LOAD range										TOTAL RUN		
MON	SUM	(KBTU/HR)	(KW)	(KBTU/HR)	(KW)	00	10	20	30	40	50	60	70	80	90	100	+	HOURS
	PEAK					10	20	30	40	50	60	70	80	90	100			
JAN	SUM	-4.020	0.000	6.024	0.000	LOAD 222	0	0	0	0	0	0	0	0	0	0	0	222
	PEAK	-19.644	0.000	0.028	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	2/ 9	0/ 0	17/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
FEB	SUM	-3.537	0.000	5.308	0.000	LOAD 195	0	0	0	0	0	0	0	0	0	0	0	195
	PEAK	-19.907	0.000	0.028	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	2/ 9	0/ 0	FUEL 672	0	0	0	0	0	0	0	0	0	0	0	672
MAR	SUM	-4.112	0.000	6.146	0.000	LOAD 228	0	0	0	0	0	0	0	0	0	0	0	228
	PEAK	-19.928	0.000	0.028	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	1/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
APR	SUM	-3.875	0.000	5.789	0.000	LOAD 213	0	0	0	0	0	0	0	0	0	0	0	213
	PEAK	-19.803	0.000	0.028	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	2/ 9	0/ 0	11/ 9	0/ 0	FUEL 720	0	0	0	0	0	0	0	0	0	0	0	720
MAY	SUM	-3.950	0.000	5.894	0.000	LOAD 222	0	0	0	0	0	0	0	0	0	0	0	222
	PEAK	-19.301	0.000	0.027	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	7/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
JUN	SUM	-3.710	0.000	5.529	0.000	LOAD 219	0	0	0	0	0	0	0	0	0	0	0	219
	PEAK	-18.802	0.000	0.026	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	5/ 9	0/ 0	FUEL 720	0	0	0	0	0	0	0	0	0	0	0	720
JUL	SUM	-3.594	0.000	5.369	0.000	LOAD 213	0	0	0	0	0	0	0	0	0	0	0	213
	PEAK	-18.368	0.000	0.026	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	2/ 9	0/ 0	2/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
AUG	SUM	-3.866	0.000	5.731	0.000	LOAD 231	0	0	0	0	0	0	0	0	0	0	0	231
	PEAK	-18.094	0.000	0.025	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	22/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
SEP	SUM	-3.241	0.000	4.865	0.000	LOAD 201	0	0	0	0	0	0	0	0	0	0	0	201
	PEAK	-18.071	0.000	0.025	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	4/ 9	0/ 0	26/ 9	0/ 0	FUEL 720	0	0	0	0	0	0	0	0	0	0	0	720
OCT	SUM	-3.744	0.000	5.591	0.000	LOAD 222	0	0	0	0	0	0	0	0	0	0	0	222
	PEAK	-18.294	0.000	0.026	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	15/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744
NOV	SUM	-3.494	0.000	5.260	0.000	LOAD 204	0	0	0	0	0	0	0	0	0	0	0	204
	PEAK	-18.716	0.000	0.026	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	1/ 9	0/ 0	16/16	0/ 0	FUEL 720	0	0	0	0	0	0	0	0	0	0	0	720
DEC	SUM	-3.616	0.000	5.477	0.000	LOAD 210	0	0	0	0	0	0	0	0	0	0	0	210
	PEAK	-19.200	0.000	0.027	0.000	ELEC 0	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	3/ 9	0/ 0	24/ 9	0/ 0	FUEL 744	0	0	0	0	0	0	0	0	0	0	0	744

One PS-H report for each piece of PLANT EQUIPMENT (8 of 8) — two page report (page 2 of 2)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **PS-H** Loads and Energy Usage for Domestic Water Heater

WEATHER FILE- CZ06RV2 WYEC2

(CONTINUED)

		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	-44.759	0.000	66.982	0.000	LOAD	2580	0	0	0	0	0	0	0	0	0	2580
	PEAK	-19.928	0.000	0.028	0.000	ELEC	0	0	0	0	0	0	0	0	0	0	0
	MON/DAY	3/ 1	0/ 0	3/ 1	0/ 0	FUEL	8760	0	0	0	0	0	0	0	0	0	8760

**** Important Report ****

One EV-A report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **EV-A** Life-Cycle Costing Parameters

WEATHER FILE- CZ06RV2 WYEC2

LIFE-CYCLE COSTING PARAMETERS

DISCOUNT RATE (PERCENT)	LABOR INFLATION RATE (PERCENT)	MATERIALS INFLATION RATE (PERCENT)	PROJECT LIFE (YEARS)
10.0	0.0	0.0	25.0

BUILDING COMPONENT COST INPUT DATA (CURRENT DOLLARS)

COST NAME	NUMBER OF UNITS	UNIT NAME	LIFE (YEARS)	UNIT FIRST COST (\$)	UNIT INSTALL -ATION COST (\$)	UNIT ANNUAL MAINT COST (\$)	UNIT MINOR OVERHAUL COST (\$)	UNIT MINOR OVERHAUL INTERVAL (YEARS)	UNIT MAJOR OVERHAUL COST (\$)	UNIT MAJOR OVERHAUL INTERVAL (YEARS)
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NO BUILDING COMPONENT COSTS SPECIFIED

One ES-A report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-A** Annual Costs and Savings

WEATHER FILE- CZ06RV2 WYEC2

YEAR	E N E R G Y (\$)			O P E R A T I O N S (\$)			TOTAL SAVINGS- ENERGY PLUS OPRNS	
	ENERGY COST BASELINE	ENERGY COST THIS RUN	ENERGY COST SAVINGS	OPRNS COST BASELINE	OPRNS COST -- PLANT BUILDING	THIS RUN TOTAL		
1	0.	39291.	-39291.	0.	0.	0.	0.	-39291.
2	0.	37505.	-37505.	0.	0.	0.	0.	-37505.
3	0.	35800.	-35800.	0.	0.	0.	0.	-35800.
4	0.	34173.	-34173.	0.	0.	0.	0.	-34173.
5	0.	32620.	-32620.	0.	0.	0.	0.	-32620.
6	0.	31137.	-31137.	0.	0.	0.	0.	-31137.
7	0.	29722.	-29722.	0.	0.	0.	0.	-29722.
8	0.	28371.	-28371.	0.	0.	0.	0.	-28371.
9	0.	27081.	-27081.	0.	0.	0.	0.	-27081.
10	0.	25850.	-25850.	0.	0.	0.	0.	-25850.
11	0.	24675.	-24675.	0.	0.	0.	0.	-24675.
12	0.	23554.	-23554.	0.	0.	0.	0.	-23554.
13	0.	22483.	-22483.	0.	0.	0.	0.	-22483.
14	0.	21461.	-21461.	0.	0.	0.	0.	-21461.
15	0.	20485.	-20485.	0.	0.	0.	0.	-20485.
16	0.	19554.	-19554.	0.	0.	0.	0.	-19554.
17	0.	18665.	-18665.	0.	0.	0.	0.	-18665.
18	0.	17817.	-17817.	0.	0.	0.	0.	-17817.
19	0.	17007.	-17007.	0.	0.	0.	0.	-17007.
20	0.	16234.	-16234.	0.	0.	0.	0.	-16234.
21	0.	15496.	-15496.	0.	0.	0.	0.	-15496.
22	0.	14792.	-14792.	0.	0.	0.	0.	-14792.
23	0.	14119.	-14119.	0.	0.	0.	0.	-14119.
24	0.	13478.	-13478.	0.	0.	0.	0.	-13478.
25	0.	12865.	-12865.	0.	0.	0.	0.	-12865.
TOTALS(\$)	0.	594236.	-594236.	0.	0.	0.	0.	-594236.

One ES-B report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-B** Life-Cycle Non-Energy Costs

WEATHER FILE- CZ06RV2 WYEC2

LIFE-CYCLE BUILDING AND PLANT NON-ENERGY COSTS (\$)

COST NAME	FIRST COST (INCLUDING INSTALLATION)	REPLACEMENTS	OPERATIONS	TOTAL	INVESTMENT (FIRST COST PLUS REPLACEMENTS)
NO BUILDING COMPONENT COSTS SPECIFIED					

One ES-C report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-C** Life-Cycle Investment Savings

WEATHER FILE- CZ06RV2 WYEC2

ENERGY SAVINGS

	ANNUAL ENERGY USE BASELINE (MBTU)	ANNUAL ENERGY USE THIS RUN (MBTU)	ANNUAL ENERGY SAVINGS (MBTU)	ANNUAL ENERGY SAVINGS (PERCENT)
AT SITE	0.00	1175.54	-1175.54	0.0
AT SOURCE	0.00	3398.25	-3398.25	0.0

INVESTMENT STATISTICS

PROJECT LIFE, 25.0 YEARS

INVESTMENT THIS RUN (\$)	BASELINE REPLACEMENT COSTS (\$)	INCREMENTAL INVESTMENT (\$)	COST SAVINGS (\$)	RATIO OF SAVINGS TO INCREMENTAL INVESTMENT (SIR)	DISCOUNTED PAYBACK PERIOD (YEARS)	RATIO OF LIFE CYCLE ENERGY SAVINGS (AT SITE) TO INCREMENTAL INVESTMENT (MBTU/\$)	RATIO OF LIFE-CYCLE ENERGY SAVINGS (AT SOURCE) TO INCREMENTAL INVESTMENT (MBTU/\$)
0.	0.	0.	-594236.	0.00	999.00	0.00	0.00

OVERALL LIFE-CYCLE COSTS (\$)

	FIRST COST	OPRNS COST	REPLACEMENTS	ENERGY COST	T O T A L
BASELINE	0.	0.	0.	0.	0.
THIS RUN	0.	0.	0.	594236.	594236.
SAVINGS (\$)	0.	0.	0.	-594236.	-594236.
(PERCENT)	0.0	0.0	0.0	0.0	0.0

One ES-D report only (this is a building level report)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-D** Energy Cost Summary

WEATHER FILE- CZ06RV2 WYEC2

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
SCE GS-2 Elec Rate	ELECTRICITY	EM1	325626. KWH	38696.	0.1188	YES
SoCalGas GN-10 Gas Rate	NATURAL-GAS	FM1	642. THERM	595.	0.9276	YES

This is the only place that total annual utility cost is reported.

=====
39291.

ENERGY COST/GROSS BLDG AREA:
ENERGY COST/NET BLDG AREA:

1.01
1.01

Valuable QC check

Valuable QC check

**** Important Report ****

One ES-E report for each UTILITY RATE (two rates in this example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-E** Summary of Utility-Rate: SCE GS-2 Elec Rate

WEATHER FILE- CZ06RV2 WYEC2

RESOURCE: ELECTRICITY DEMAND-WINDOW: 15 3413. BTU/KWH
 BILLING-DAY: 31 RATE-LIMITATION: 0.0000
 METERS: EM1
 POWER-FACTOR: 0.80 EXCESS-KVAR-FRAC: 0.75 EXCESS-KVAR-CHG: 0.0000

RATE-QUALIFICATIONS		BLOCK-CHARGES		DEMAND-RATCHETS			MIN-MON-RATCHETS		
MIN-ENERGY:	0.0	SCE GS-2 Facility Block							
MAX-ENERGY:	0.0	SCE GS-2 Time-Related Block							
MIN-DEMAND:	0.0	SCE GS-2 Energy Charge Block							
MAX-DEMAND:	0.0								
QUALIFY-RATE:	ALL YEAR								
USE-MIN-QUAL:	NO								

MONTH	METERED ENERGY KWH	BILLING ENERGY KWH	METERED DEMAND KW	BILLING DEMAND KW	ENERGY CHARGE (\$)	DEMAND CHARGE (\$)	ENERGY CST ADJ (\$)	TAXES (\$)	SURCHRG (\$)	FIXED CHARGE (\$)	MINIMUM CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	TOTAL CHARGE (\$)
JAN	25228	25228	118.7	118.7	1941	641	0	0	0	60	0	0.1047	2642
FEB	22069	22069	119.7	119.7	1698	646	0	0	0	60	0	0.1089	2404
MAR	25308	25308	117.7	117.7	1947	636	0	0	0	60	0	0.1044	2643
APR	23963	23963	125.7	125.7	1843	679	0	0	0	60	0	0.1078	2582
MAY	27275	27275	127.6	127.6	2098	689	0	0	0	60	0	0.1044	2848
JUN	29859	29859	145.1	145.1	2297	1796	0	0	0	60	0	0.1391	4153
JUL	30647	30647	141.2	141.2	2357	1857	0	0	0	60	0	0.1395	4274
AUG	33820	33820	139.3	139.3	2601	1831	0	0	0	60	0	0.1329	4493
SEP	28743	28743	145.9	145.9	2211	1919	0	0	0	60	0	0.1458	4190
OCT	29591	29591	143.0	143.0	2276	772	0	0	0	60	0	0.1050	3108
NOV	25205	25205	137.9	137.9	1939	745	0	0	0	60	0	0.1089	2744
DEC	23920	23920	132.2	132.2	1840	714	0	0	0	60	0	0.1093	2614
TOTAL	325626	325626	145.9		25047	12925	0	0	0	724		0.1188	38696

Includes the effect of UTILITY-RATE: DEMAND-INTERVAL (default = 15min), i.e., may exceed peak kW's reported in Plant reports

Includes the effect of demand ratchets, if any, i.e., may exceed "Metered Demand"

IMPORTANT NOTE:

Several other reports include monthly/annual kWh and therms, however, only the ES-E report reflects user-controlled monthly meter read dates, i.e., the monthly read dates do not have to be last day of each month, as is all other DOE-2 reports.

**** Important Report ****

One ES-F report for each UTILITY RATE (two rates in this example — may require more than one page, depending on the number of blocks in a rate)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-F** Block-Charges and Ratchets for SCE GS-2 Elec Rate

WEATHER FILE- CZ06RV2 WYEC2

RESOURCE: ELECTRICITY
 ENERGY-UNITS: KWH
 DEMAND-UNITS: KW
 DEMAND-WINDOW: 15

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
SCE GS-2 Facility Block													
USE: YEARLY													
METERED ENERGY:	25228	22069	25308	23963	27275	29859	30647	33820	28743	29591	25205	23920	
BILLING ENERGY:	0	0	0	0	0	0	0	0	0	0	0	0	325626
METERED DEMAND:	118.7	119.7	117.7	125.7	127.6	145.1	141.2	139.3	145.9	143.0	137.9	132.2	
BILLING DEMAND:	118.7	119.7	117.7	125.7	127.6	145.1	141.2	139.3	145.9	143.0	137.9	132.2	
DEMAND CHGS (\$):	641	646	636	679	689	784	762	752	788	772	745	714	8608
SCE GS-2 Time-Related Block													
USE: SEASONAL													
METERED ENERGY:	0	0	0	0	0	28057	30647	33820	28743	0	0	0	
BILLING ENERGY:	0	0	0	0	0	0	0	0	0	0	0	0	120083
METERED DEMAND:	0.0	0.0	0.0	0.0	0.0	145.1	141.2	139.3	145.9	0.0	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.0	145.1	141.2	139.3	145.9	0.0	0.0	0.0	
PRORATE FACTOR:	0.0000	0.0000	0.0000	0.0000	0.0000	0.9000	1.0000	1.0000	1.0000	0.0000	0.0000	0.0000	
DEMAND CHGS (\$):	0	0	0	0	0	1012	1094	1079	1131	0	0	0	4317
SCE GS-2 Energy Charge Block													
USE: YEARLY													
METERED ENERGY:	25228	22069	25308	23963	27275	29859	30647	33820	28743	29591	25205	23920	
BILLING ENERGY:	25228	22069	25308	23963	27275	29859	30647	33820	28743	29591	25205	23920	325626
METERED DEMAND:	118.7	119.7	117.7	125.7	127.6	145.1	141.2	139.3	145.9	143.0	137.9	132.2	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY CHGS (\$):	1941	1698	1947	1843	2098	2297	2357	2601	2211	2276	1939	1840	25047
=====													
TOTAL ENERGY:	25228	22069	25308	23963	27275	29859	30647	33820	28743	29591	25205	23920	325626
TOTAL CHARGES (\$):	2582	2344	2582	2522	2787	4093	4214	4433	4130	3048	2683	2554	37972

RATCHETS	TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SCE GS-2 Ratchet 50	HIGHEST	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0

NOTE:
 This report is especially helpful for QC checking time-of-use rates.

**** Important Report ****

One ES-E report for each UTILITY RATE (two rates in this example)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-E** Summary of Utility-Rate: SoCalGas GN-10 Gas Rate

WEATHER FILE- CZ06RV2 WYEC2

RESOURCE: NATURAL-GAS DEMAND-WINDOW: 60 100000. BTU/THERM
 BILLING-DAY: 31 RATE-LIMITATION: 0.0000
 METERS: FM1

RATE-QUALIFICATIONS		BLOCK-CHARGES		DEMAND-RATCHETS				MIN-MON-RATCHETS			
MIN-ENERGY:	0.0	SoCalGas GN-10 Summer Block									
MAX-ENERGY:	0.0	SoCalGas GN-10 Winter Block									
MIN-DEMAND:	0.0										
MAX-DEMAND:	0.0										
QUALIFY-RATE:	ALL YEAR										
USE-MIN-QUAL:	NO										

MONTH	METERED ENERGY THERM	BILLING ENERGY THERM	METERED DEMAND THERM/HR	BILLING DEMAND THERM/HR	ENERGY CHARGE (\$)	DEMAND CHARGE (\$)	ENERGY CST ADJ (\$)	TAXES (\$)	SURCHRG (\$)	FIXED CHARGE (\$)	MINIMUM CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	TOTAL CHARGE (\$)
JAN	69	69	3.8	3.8	44	0	0	0	0	15	0	0.8703	60
FEB	50	50	0.3	0.3	32	0	0	0	0	14	0	0.9251	46
MAR	58	58	0.3	0.3	37	0	0	0	0	15	0	0.9119	53
APR	54	54	0.3	0.3	35	0	0	0	0	15	0	0.9192	50
MAY	55	55	0.3	0.3	36	0	0	0	0	15	0	0.9230	51
JUN	52	52	0.3	0.3	34	0	0	0	0	15	0	0.9314	48
JUL	50	50	0.3	0.3	33	0	0	0	0	15	0	0.9506	48
AUG	54	54	0.3	0.3	35	0	0	0	0	15	0	0.9293	50
SEP	45	45	0.3	0.3	29	0	0	0	0	15	0	0.9726	44
OCT	53	53	0.3	0.3	34	0	0	0	0	15	0	0.9382	49
NOV	49	49	0.3	0.3	32	0	0	0	0	15	0	0.9487	47
DEC	52	52	1.1	1.1	34	0	0	0	0	15	0	0.9389	49
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	642	642	3.8		415	0	0	0	0	180		0.9276	595

IMPORTANT NOTE:

Several other reports include monthly/annual kWh and therms, however, only the ES-E report reflects user-controlled monthly meter read dates, i.e., the monthly read dates do not have to be last day of each month, as is all other DOE-2 reports.

**** Important Report ****

One ES-F report for each UTILITY RATE (two rates in this example — may require more than one page, depending on the number of blocks in a rate)

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

REPORT- **ES-F** Block-Charges and Ratchets for SoCalGas GN-10 Gas Rate

WEATHER FILE- CZ06RV2 WYEC2

RESOURCE: NATURAL-GAS
 ENERGY-UNITS: THERM
 DEMAND-UNITS: THERM/HR
 DEMAND-WINDOW: 60

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
SoCalGas GN-10 Summer Block													
USE: SEASONAL													
METERED ENERGY:	0	0	0	54	55	52	50	54	45	53	49	0	
BILLING ENERGY:	0	0	0	54	55	52	50	54	45	53	49	0	414
METERED DEMAND:	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY CHGS (\$):	0	0	0	35	36	34	33	35	29	34	32	0	268
SoCalGas GN-10 Winter Block													
USE: SEASONAL													
METERED ENERGY:	69	50	58	0	0	0	0	0	0	0	0	52	
BILLING ENERGY:	69	50	58	0	0	0	0	0	0	0	0	52	228
METERED DEMAND:	3.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY CHGS (\$):	44	32	37	0	0	0	0	0	0	0	0	34	148
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL ENERGY:	69	50	58	54	55	52	50	54	45	53	49	52	642
TOTAL CHARGES (\$):	44	32	37	35	36	34	33	35	29	34	32	34	41

NOTE:
 This report is especially helpful for QC checking time-of-use rates.

**** Important Report ****

One day (24 hours) per page, i.e., a full year hourly report = 365 pages. Hourly reports may also be exported to CSV file from the file menu: 'File' → 'Export Hourly Results' or from within the D2SIMViewer (see the 'Hourly Results' button in the upper right corner of the D2SIMViewer screen).

3-Story Office Bldg

DOE-B2.2NT38 4/07/2001 10:36:50 BDL RUN 2

HOURLY REPORT- Hourly Report

WEATHER FILE- CZ06RV2 WYEC2

Labels identify model component name (in this example, "EM1", is the name of the master elec meter), hourly report variable description, units, and the hourly report variable number.

One day (24 hours) per page. The right-to-left order of the hourly variables is based on the order in which they are selected into each Report Block and the order in which the Report Blocks were selected into the Hourly Report. For more info, see the eQUEST Modeling Procedures Quick Reference Guide.

	EM1	EM1	EM1	EM1	EM1	EM1	EM1	EM1	EM1	EM1
	LIGHT END USE KWH	TASK END USE KWH	EQUIP END USE KWH	HEAT END USE KWH	COOL END USE KWH	HTREJ END USE KWH	AUX END USE KWH	VENT END USE KWH	REFG END USE KWH	SUPP END USE KWH
	---(1)	---(2)	---(3)	---(4)	---(5)	---(6)	---(7)	---(8)	---(9)	---(10)
1231 1	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 2	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 3	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 4	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 5	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 6	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 7	9.758	0.000	4.236	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231 8	26.263	0.000	11.426	0.000	4.496	0.000	3.074	2.503	0.000	0.000
1231 9	29.619	0.000	12.829	0.000	2.124	0.000	3.074	2.503	0.000	0.000
123110	29.619	0.000	12.829	0.000	2.124	0.000	3.074	2.503	0.000	0.000
123111	29.619	0.000	12.829	0.000	2.124	0.000	3.074	2.558	0.000	0.000
123112	29.619	0.000	12.805	0.000	2.124	0.000	3.074	2.674	0.000	0.000
123113	29.619	0.000	12.805	0.000	2.124	0.000	3.074	2.982	0.000	0.000
123114	29.619	0.000	12.829	0.000	2.124	0.000	3.074	2.668	0.000	0.000
123115	29.619	0.000	12.829	0.000	2.124	0.000	3.074	2.885	0.000	0.000
123116	29.619	0.000	12.829	0.000	2.124	0.000	3.074	3.017	0.000	0.000
123117	26.263	0.000	12.817	0.000	2.124	0.000	3.074	2.543	0.000	0.000
123118	16.472	0.000	7.129	0.000	2.124	0.000	3.074	2.503	0.000	0.000
123119	9.758	0.000	4.236	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123120	9.758	0.000	4.236	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123121	3.324	0.000	2.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123122	3.324	0.000	2.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123123	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123124	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAILY SUMMARY (DEC 31)										
MN	1.646	0.000	2.839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	29.619	0.000	12.829	0.000	4.496	0.000	3.074	3.017	0.000	0.000
SM	355.039	0.000	175.064	0.000	25.738	0.000	33.816	29.338	0.000	0.000
AV	14.793	0.000	7.294	0.000	1.072	0.000	1.409	1.222	0.000	0.000
MONTHLY SUMMARY (DEC)										
MN	0.494	0.000	0.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	29.619	0.000	12.829	0.000	19.989	0.000	3.074	5.202	0.000	0.000
SM	7917.481	0.000	4035.372	0.000	996.224	0.000	743.943	720.506	0.000	0.000
AV	10.642	0.000	5.424	0.000	1.339	0.000	1.000	0.968	0.000	0.000
YEARLY SUMMARY										
MN	0.494	0.000	0.852	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	29.619	0.000	12.829	0.000	52.482	0.000	3.074	13.681	0.000	0.000
SM	90465.391	0.000	46271.277	0.000	35875.461	0.000	8487.708	11764.976	0.000	0.000
AV	10.327	0.000	5.282	0.000	4.095	0.000	0.969	1.343	0.000	0.000

Min, Max, Sum, and Avg provided once for each day, once for each month, and once for the full year. All three (i.e., Daily, Monthly, & Yearly) appear only on the last page of the hourly report (as in this example).

NOTE:
For the most complete description and listing of DOE-2.2's hourly reporting variables, see the DOE-2.2 Reference Manual, Vol. 4: Libraries & Reports.

Each weather file statistical summary is four pages long. This summary is produced using the DOE-2 weather processor (a DOS program). On DOE2.com, in the Weather Data section, follow the link to “the Weather Data & Utilities page”, then see the “DOE-2 processor” link. For instructions on how to use the weather processor, see the DOE-2.2 Reference Manual, Vol. 3: Topics.

DOE-2.1E-W79 WEATHER UTILITY PROGRAM

INPUT VERIFICATION

RUN TYPE STAT

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LATITUDE = 33.90

LONGITUDE = 118.40

TIME ZONE = 8

This page of the weather file statistical summary provides primarily temperature-related statistics.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
AVG. TEMP. (F) (DRYBULB)	55.9	56.6	56.5	59.0	61.1	64.3	66.8	68.3	67.7	64.3	60.0	54.9	61.3
AVG. TEMP. (F) (WETBULB)	50.1	51.8	51.2	52.2	56.0	60.3	61.4	62.7	62.3	58.3	52.9	46.8	55.5
AVG. DAILY MAX. TEMP.	65.8	66.0	66.1	68.1	69.2	72.4	75.4	76.7	76.8	74.3	69.8	66.2	70.6
AVG. DAILY MIN. TEMP.	47.2	48.3	49.2	51.1	54.6	57.6	60.2	62.0	61.0	57.0	50.7	46.9	53.8
HEATING DEG. DAYS (BASE 65)	265.5	219.0	228.5	166.5	107.5	31.5	7.5	0.0	4.5	37.5	143.0	263.5	1474.5
(BASE 60)	123.0	83.5	81.5	40.5	6.5	0.0	0.0	0.0	0.0	2.5	41.5	122.5	501.5
(BASE 55)	18.0	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	35.0	61.0
(BASE 50)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
COOLING DEG. DAYS (BASE 80)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(BASE 75)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(BASE 70)	0.0	0.0	0.0	0.0	0.0	1.0	7.0	19.5	22.5	13.0	0.0	0.0	63.0
(BASE 65)	1.5	0.0	0.0	5.5	11.5	31.5	94.5	135.0	121.5	57.5	0.5	0.5	459.5
HEATING DEG. HRS./24 (BASE 65)	290.2	242.8	275.1	208.9	149.8	84.2	48.5	24.7	34.3	93.9	184.3	325.5	1962.1
(BASE 60)	157.2	126.8	147.7	98.8	55.4	17.0	5.5	2.5	4.3	26.2	86.3	192.2	919.7
(BASE 55)	65.1	45.5	51.4	20.3	7.2	0.5	0.0	0.0	0.0	3.1	28.2	88.5	309.9
(BASE 50)	20.0	11.1	7.3	1.2	0.4	0.0	0.0	0.0	0.0	0.1	7.0	28.8	76.0
COOLING DEG. HRS./24 (BASE 80)	0.0	0.0	0.0	0.2	0.0	0.4	1.1	1.1	2.2	2.6	0.2	0.0	7.9
(BASE 75)	0.4	0.5	0.5	2.2	0.7	4.5	9.3	9.8	12.8	10.3	2.0	0.9	53.9
(BASE 70)	2.2	2.8	3.3	10.5	4.2	20.5	41.7	49.0	45.5	28.6	10.2	4.4	222.9
(BASE 65)	9.5	8.2	11.7	27.8	28.7	63.9	105.0	127.0	114.0	72.0	33.8	13.4	614.9
MAXIMUM TEMP.	79	79	79	82	81	84	85	87	89	89	83	79	89
MINIMUM TEMP.	38	40	42	44	48	53	55	57	55	49	41	38	38
NO. DAYS MAX. 90 AND ABOVE	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. DAYS MAX. 32 AND BELOW	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. DAYS MIN. 32 AND BELOW	0	0	0	0	0	0	0	0	0	0	0	0	0
NO. DAYS MIN. 0 AND BELOW	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG. WIND SPEED (MPH)	7.5	6.5	8.4	8.9	8.4	8.2	8.7	6.3	7.2	6.8	7.1	5.3	7.4
AVG. WIND SPEED (DAY)	8.8	7.9	10.1	11.0	10.1	9.9	10.2	8.9	9.5	9.3	8.7	6.2	9.3
AVG. WIND SPEED (NIGHT)	6.5	5.4	6.7	6.3	5.9	5.7	6.5	3.1	4.6	4.3	5.8	4.7	5.4
AVG. TEMP. (DAY)	60.0	61.0	60.6	62.5	64.0	67.3	70.0	71.6	71.1	68.3	64.5	60.2	65.5
AVG. TEMP. (NIGHT)	53.1	53.2	52.6	54.7	57.0	59.9	62.3	64.2	63.8	60.3	56.2	51.0	57.0
AVG. SKY COVER	3.9	4.9	4.0	4.0	4.4	4.9	3.5	3.3	3.6	4.1	3.1	3.2	3.9
AVG. SKY COVER (DAY)	3.6	4.4	3.8	4.0	4.4	4.6	3.4	2.8	3.0	3.8	3.2	3.4	3.7
AVG. REL. HUM. AT 4AM	71.8	80.9	79.4	73.5	85.1	88.9	82.6	87.4	86.6	80.7	72.4	61.8	79.2
10AM	59.0	62.2	62.5	55.4	65.0	73.4	68.8	61.5	62.6	58.0	54.7	42.9	60.5
4PM	66.1	69.1	64.7	61.1	64.8	72.3	66.6	66.3	66.8	68.9	60.7	58.2	65.4
10PM	73.5	80.1	78.0	76.1	79.4	85.5	80.1	81.7	82.2	78.2	71.5	65.4	77.6

LATITUDE = 33.90

LONGITUDE = 118.40

TIME ZONE = 8

This page of the weather file statistical summary provides primarily solar-related statistics.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
AVG. DAILY DIRECT NORMAL SOLAR	1591.6	1642.5	1953.6	1946.0	1862.3	1814.1	2221.7	2161.7	1825.0	1449.8	1406.0	1393.4	1773.7
AVG. DAILY TOTAL HORIZNTL SOLAR	943.3	1230.1	1641.7	1909.4	2132.3	2126.8	2293.4	2122.1	1760.9	1305.2	997.5	852.5	1611.7
MAX. DAILY DIRECT NORMAL SOLAR	2219.0	2439.0	2824.0	2984.0	2985.0	3056.0	2924.0	2836.0	2512.0	2273.0	2076.0	1965.0	3056.0
MAX. DAILY TOTAL HORIZNTL SOLAR	1213.0	1565.0	2094.0	2391.0	2596.0	2666.0	2618.0	2479.0	2151.0	1626.0	1307.0	989.0	2666.0
MIN. DAILY DIRECT NORMAL SOLAR	0.0	29.0	81.0	79.0	484.0	82.0	287.0	207.0	804.0	162.0	14.0	0.0	0.0
MIN. DAILY TOTAL HORIZNTL SOLAR	300.0	582.0	915.0	1046.0	1420.0	1190.0	1259.0	1150.0	1235.0	760.0	405.0	263.0	263.0
MAX. HRLY DIRECT NORMAL SOLAR	272.0	282.0	287.0	288.0	282.0	278.0	275.0	272.0	270.0	269.0	262.0	264.0	288.0
MAX. HRLY TOTAL HORIZNTL SOLAR	191.0	239.0	276.0	303.0	315.0	315.0	313.0	305.0	286.0	245.0	206.0	167.0	315.0
AVG. MAX. HRLY DIRECT NORML SOLAR	216.6	222.6	252.1	234.4	244.4	227.5	257.4	253.5	256.7	219.8	195.4	210.1	232.7
AVG. MAX. HRLY TOTAL HRZNTL SOLAR	157.1	192.5	240.2	264.2	280.6	274.8	290.5	284.2	260.5	206.5	163.3	146.9	230.3
AVG. DAILY TOTAL VERTICAL SOLAR													
AZIMUTH													
N	217.3	302.0	384.9	497.4	659.4	754.6	658.4	518.8	424.8	354.4	259.8	214.0	437.8
E	635.8	808.4	951.7	1115.7	1100.3	1117.7	1180.6	1122.5	881.0	734.4	635.3	562.9	904.3
S	1514.5	1500.0	1442.5	1140.2	934.3	816.3	832.1	1052.1	1312.2	1397.5	1427.0	1425.6	1231.3
W	638.8	785.5	1100.5	1233.0	1384.3	1410.7	1382.6	1281.3	1147.0	901.4	668.7	582.9	1044.4
MAX. DAILY TOTAL VERTICAL SOLAR													
AZIMUTH													
N	289.7	419.0	554.2	657.2	856.9	866.4	781.2	712.3	559.0	457.2	384.8	278.0	866.4
E	797.4	972.6	1249.9	1403.8	1413.2	1491.8	1386.8	1361.4	1199.4	1001.7	793.3	713.1	1491.8
S	1857.0	1854.1	1737.7	1404.7	1099.9	957.4	939.9	1239.7	1553.9	1726.5	1742.9	1756.0	1857.0
W	809.6	997.7	1331.1	1458.9	1534.8	1629.2	1558.7	1397.0	1312.2	1064.5	843.3	712.1	1629.2
MAX. HRLY TOTAL VERTICAL SOLAR													
AZIMUTH													
N	48.1	65.7	78.6	83.3	90.4	93.0	87.5	81.3	79.6	71.7	60.6	49.3	93.0
E	184.2	208.6	244.6	253.4	249.9	247.5	243.6	243.7	235.0	212.8	180.2	163.2	253.4
S	264.7	260.9	243.2	200.7	164.0	142.1	146.9	178.9	225.1	250.7	259.4	263.9	264.7
W	181.7	224.3	249.2	256.6	257.3	251.6	250.3	251.5	244.4	212.2	186.4	164.3	257.3

Cooling & Heating design day temperatures.

DESIGN TEMPERATURES	SUMMER		WINTER
	PER CENT	T(DRY)	T(WET)
	1.0	82	70
	2.5	79	69
5.0	77	68	

MONTHLY AVERAGE TEMPERATURES AS A FUNCTION OF HOUR OF THE DAY

HOUR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0	53.5	53.0	52.1	54.5	56.5	59.2	61.7	64.0	63.3	59.8	55.2	49.9	56.9
1	52.1	52.1	51.5	54.1	56.2	58.9	61.4	63.5	62.7	59.5	54.3	49.1	56.3
2	50.2	51.3	50.8	53.9	55.8	58.6	61.3	62.9	62.2	59.3	53.4	48.8	55.7
3	49.5	50.3	50.1	53.5	55.5	58.2	61.4	62.6	61.8	58.2	52.6	48.3	55.2
4	49.4	49.9	50.1	52.9	56.4	59.1	61.4	62.7	61.8	58.0	52.3	47.7	55.2
5	49.2	49.5	50.1	52.5	57.4	60.2	62.2	63.7	61.7	58.4	51.9	47.5	55.4
6	48.7	49.2	50.0	55.8	58.3	61.2	63.3	66.6	63.1	59.9	51.5	48.5	56.4
7	50.7	53.4	53.9	59.8	60.8	63.9	66.2	70.1	66.2	63.9	56.0	51.9	59.8
8	54.8	57.7	57.9	63.2	63.5	66.6	70.2	73.1	70.0	67.4	60.6	56.2	63.5
9	58.8	61.8	61.8	65.4	66.0	69.2	72.4	74.5	73.1	70.4	65.0	59.5	66.5
10	62.2	62.9	63.1	66.3	67.1	70.3	73.4	75.3	74.9	72.5	66.5	63.0	68.1
11	64.5	64.0	64.1	66.3	67.8	71.1	73.7	75.8	75.3	73.3	68.2	64.9	69.1
12	64.2	65.1	65.3	66.2	68.7	72.2	74.2	75.4	75.8	73.1	69.6	65.0	69.6
13	63.5	64.2	64.4	65.3	67.9	71.5	74.1	74.5	75.0	72.0	68.4	64.2	68.8
14	62.5	63.2	63.8	65.0	67.1	71.0	74.0	73.4	74.1	70.6	67.2	62.4	67.9
15	60.8	62.2	62.9	63.9	66.1	70.4	72.7	72.3	72.5	67.5	66.3	59.9	66.5
16	58.3	60.2	60.5	61.7	64.0	68.1	71.1	69.5	69.7	64.8	64.6	57.5	64.2
17	57.0	58.0	58.0	59.4	62.0	65.7	68.7	67.5	67.7	63.7	62.8	56.3	62.3
18	56.6	56.1	55.6	57.9	59.8	63.5	65.2	66.3	66.7	63.3	61.1	55.4	60.7
19	56.0	55.7	55.1	56.7	59.1	62.6	63.9	65.9	66.4	62.8	60.3	54.3	59.9
20	55.8	55.4	54.6	55.6	58.4	61.6	63.2	65.6	65.9	62.3	59.5	53.2	59.3
21	55.2	55.2	54.0	55.2	57.8	60.9	62.9	65.0	65.3	61.6	58.6	52.5	58.7
22	54.8	54.7	53.5	55.0	57.2	60.1	62.7	64.6	64.6	60.8	57.5	51.7	58.1
23	54.4	53.9	52.9	55.0	56.8	59.7	62.3	64.2	64.0	60.0	56.3	50.7	57.5

Monthly, average 24-hour dry bulb temperature profile

GROUND TEMPERATURES	518.8	517.8	517.7	518.2	520.1	522.1	523.7	524.8	524.9	524.0	522.4	520.5
CLEARNESS NUMBERS	1.05	1.04	1.02	1.00	0.98	0.96	0.95	0.97	0.99	1.01	1.03	1.04

Note that ground temperatures are given in degrees Rankine.

Description of eQUEST/DOE-2.2 End Use Reporting Categories

LIGHTS	<p>Indoor overhead (ambient) lighting BDL: SPACE: LIGHTING-KW and/or LIGHTING-W/AREA eQ :Internal Loads > Space Properties > Lighting</p> <p>Usage Notes: 1) Additive if both keywords are used 2) Can be controlled by daylight controls</p>
TASK LIGHTS	<p>Indoor Task lighting energy BDL: SPACE: TASK-LIGHTING-KW eQ :Internal Loads > Space Properties > Lighting</p> <p>Usage Notes: 1) Cannot be controlled by daylight controls</p>
MISC EQUIP	<p>Indoor equipment energy (see EXT USAGE for outdoor equipment energy)</p> <p>Elec. Plug Loads: Indoor electric equipment (generally contributes to space loads, but may not) BDL: SPACE: EQUIPMENT-KW and/or EQUIPMENT-W/AREA eQ: Internal Loads > Space Properties > Equipment > Equipment</p> <p>Space Process Lds: Other indoor energy sources (generally contributes to space loads, but may not) BDL: SPACE: SOURCE-TYPE and SOURCE-BTU/HR eQ: Internal Loads > Space Properties > Equipment > Internal Energy Sources</p> <p>Loop Process Loads: Process loads assigned directly to a circulation loop BDL: CIRCULATION-LOOP: PROCESS-LOAD eQ: Water-Side HVAC > Circulation Loop Properties > Process/DHW Loads</p> <p>Indoor Direct Loads: Indoor energy sources which do not contribute to space loads (e.g., equipment in exhausted spaces) Consider this a process load sensed only by a utility meter, not sensed by any thermostat. BDL: ELEC-METER: INTERIOR-POWER, and INTERIOR-SCH eQ: Utility & Economics > Electric Meter Properties > Direct Loads > Interior Direct Loads</p>
SPACE HEATING	<p>Space heating by boilers, furnaces, heat-pumps etc.</p> <p>Boilers: BDL: BOILER: TYPE and HEAT-INPUT-RATIO eQ: Water-Side HVAC > Boiler Properties > Basic Specifications</p> <p>Furnaces: BDL: SYSTEM: HEAT-SOURCE, FURNACE-HIR, HEATING-EIR, ... eQ: Air-Side HVAC > System Properties > Heating > Coil Capacity/Control | Unitary Power</p> <p>Heat Pumps: during heating mode only BDL: SYSTEM: HEAT-SOURCE, HEATING-EIR, ... eQ: Air-Side HVAC > System Properties > Heating > Coil Capacity/Control | Unitary Power</p> <p>Usage Notes: 1) includes the impact of outdoor ventilation air, air-side economizers, fan heat, and pump heat 2) includes HP condenser fan electric use IF accounted for via SYSTEM: HEATING-EIR 3) boiler draft fan electric use is included under SPACE HEATING, not PUMPS & AUX</p>
SPACE COOLING	<p>Space cooling by chillers and package DX systems</p> <p>Chillers: BDL: CHILLER: TYPE and ELEC-INPUT-RATIO eQ: Water-Side HVAC > Chiller Properties > Basic Specifications</p> <p>DX Units: BDL: SYSTEM: COOLING-EIR, ... eQ: Air-Side HVAC > System Properties > Cooling > Coil Capacity/Control | Unitary Power</p> <p>Heat Pumps: during cooling mode only BDL: SYSTEM: COOLING-EIR, ... eQ: Air-Side HVAC > System Properties > Cooling > Coil Capacity/Control | Unitary Power</p> <p>Usage Notes: 1) includes the impact of outdoor ventilation air, air-side economizers, fan heat, and pump heat 2) includes DX condenser fan electric use IF accounted for via SYSTEM: COOLING-EIR 3) includes desiccant cooling, if any</p>

NOTE: BDL = Building Description Language, i.e., input found in the project INP file (BDL command: keyword).
 eQ = "path" to inputs within eQUEST's detailed interface dialogs (module > component > dialog tab > sub-tab)

Description of eQUEST/DOE-2.2 End Use Reporting Categories (*continued*)

HEAT REJECT	Cooling towers and other heat rejection devices
WC Condensers:	Heat rejection (tower) fan energy only. BDL: HEAT-REJECTION: TYPE and ELEC-INPUT-RATIO eQ: Water-Side HVAC > Heat Rejection Properties > Basic Specifications
AC DX Condensers:	BDL: SYSTEM: CONDENSER-TYPE, OUTSIDE-FAN-ELEC eQ: Air-Side HVAC > System Properties > Cooling > Condenser
Usage Notes:	1) Condenser water pump energy is reported under PUMPS & AUX 2) AC DX condenser fan electric use will be included under SPACE COOLING IF accounted for using SYSTEM: COOLING-EIR

PUMPS & AUX	Circulation pumps and auxiliary power consumed by various components
Circ Pumps:	All circulation pumping energy, e.g., chilled water, condenser water, space heat hot water, domestic hot water, including all pumps attached directly to loops or primary equipment. BDL: PUMP: HEAD and FLOW eQ: Water-Side HVAC > Pump Properties > Basic Specifications
Auxiliaries:	any of numerous auxiliary power requirements, e.g., control panels, gas pilot lights, solution pumps, crankcase heaters, heat tracing on a pipe. In general, energy use is treated as "auxiliary" if it is incidental to the principal equipment, e.g., draft fans on DHW heaters (note that draft fans on forced draft boilers are treated under space heat), heat-recovery pumps on electric generators, cooling tower filter pump, etc. BDL: (example:) CHILLER: AUX-KW, and AUX-MODE eQ: (example:) Water-Side HVAC > Chiller Properties > Miscellaneous
Usage Notes:	1) Condenser water pump energy is reported under PUMPS & AUX 2) Boiler draft fan electric use is included under SPACE HEATING, not PUMPS & AUX

VENT FANS	All ventilation fans, e.g., supply, return and exhaust fans (does not include condenser fans or draft fans).
Supply Fans:	BDL: SYSTEM: SUPPLY-STATIC and SUPPLY-EFF eQ: Air-Side HVAC > System Properties > Fans > Fan Power and Control
Return Fans:	BDL: SYSTEM: RETURN-STATIC and RETURN-EFF eQ: Air-Side HVAC > System Properties > Fans > Fan Power and Control
Exhaust Fans:	BDL: ZONE: EXHAUST-FLOW, EXHAUST-STATIC and EXHAUST-EFF eQ: Air-Side HVAC > Zone Properties > Outdoor Air > Exhaust Air
Usage Notes:	1) An alternative to SYSTEM: SUPPLY-STATIC and SUPPLY-EFF is SUPPLY-KW/FLOW and SUPPLY-DELTA-T (similar for return fans) 2) Condenser fan energy is reported under HEAT REJECT 3) Boiler draft fan electric use is reported under SPACE HEATING, not PUMPS & AUX 4) Although exhaust fans are included under VENT FANS on Plant reports, they are excluded from SS-M and SS-L (these fan reports include only supply & return).

REFRIG DISPLAY	Refrigerated display cases, and associated refrigeration systems
	BDL: SYSTEM: REFG-COMP-EER and others... and ZONE: REFG-ZONE-LOAD and others... eQ: Air-Side HVAC > System Properties > Refrigeration > Design Parameters and Air-Side HVAC > Zone Properties > Refrigeration

HT PUMP SUPPLEM	Heat pump supplemental and defrost energy
	BDL: SYSTEM: HP-SUPP-SOURCE, HP-SUPP-HT-CAP, and others... eQ: Air-Side HVAC > System Properties > Heating > Supp Heat/Defrost

NOTE: BDL = Building Description Language, i.e., input found in the project INP file (BDL command: keyword).
eQ = "path" to inputs within eQUEST's detailed interface dialogs (module > component > dialog tab > sub-tab)

Description of eQUEST/DOE-2.2 End Use Reporting Categories (*continued*)

DOMESTIC HOT WTR Domestic hot water energy

BDL: DW-HEATER: TYPE, HEAT-INPUT-RATIO, ELEC-INPUT-RATIO...
eQ: Air-Side HVAC > System Properties > Heating > Supp Heat/Defrost

EXT USAGE

Energy usage exterior to building, such as exterior lighting (e.g., parking lots or signage)...
think of this as a direct process load on a meter (not sensed by any thermostat)
BDL: ELEC-METER: EXTERIOR-POWER, and INTERIOR-SCH
eQ: Utility & Economics > Electric Meter Properties > Direct Loads > Exterior Direct Loads

NOTE: BDL = *Building Description Language*, i.e., input found in the project INP file (BDL command: keyword).
eQ = "path" to inputs within eQUEST's detailed interface dialogs (module > component > dialog tab > sub-tab)