HEATING LOAD

*** BUILDING ***

FLOOR AREA 171490 SQFT 15931 M2 VOLUME 1767951 CUFT 50068 M3

COOLING LOAD

	COOLING HOLD					HEATING BOAD			
				==========					
TIME	JUN 22 7PM				DEC 21	DEC 21 4AM			
DRY-BULB TEMP		83 F			24 F				
WET-BULB TEMP		64 F			20 F				
TOT HORIZONTAL SOLAR RA									
WINDSPEED AT SPACE			2.	2 M/S		4.5 M/S			
CLOUD AMOUNT 0(CLEAR)-1	.0	0			10				
	SENSIBLE LATENT					SENSIBLE			
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)			
WALL CONDUCTION	98.024	28.721	0.000	0.000	-219.752	-64.387			
ROOF CONDUCTION	57.633	16.887	0.000	0.000	-53.498	-15.675			
WINDOW GLASS+FRM COND	85.260	24.981	0.000	0.000	-438.465	-128.470			
WINDOW GLASS SOLAR	456.832	133.852	0.000	0.000	8.190	2.400			
DOOR CONDUCTION	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	-8.444	-2.474	0.000	0.000	-41.881	-12.271			
OCCUPANTS TO SPACE	55.022	16.121	44.125	12.929	0.206	0.060			
LIGHT TO SPACE	177.980	52.148	0.000	0.000	52.103	15.266			
EQUIPMENT TO SPACE					5.003	1.466			
PROCESS TO SPACE	11.905	3.488	8.781	2.573	0.000	0.000			
INFILTRATION		2.456			-40.539	-11.878			
TOTAL	1587.526	465.145	86.325	25.293	-728.633	-213.489			
TOTAL / AREA					-0.004	-0.013			
		. ,							
TOTAL LOAD	1673.851 H	KBTU/H	490.438	KW	-728.633 KBTU/H	-213.489	KW		
TOTAL LOAD / AREA	9.76 E	BTU/H.SQFT	30.783	W/M2	4.249 BTU/H.SQFT	13.400	W/M2		

****************** * 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 *************** *** BUILDING ***

FLOOR AREA 171490 SQFT 15931 M2 VOLUME 1767951 CUFT 50068 M3

	COOLING LOAD	HEATING LOAD		
	=======================================	=======================================		
TIME	JUL 23 8PM	JAN 6 5AM		
DRY-BULB TEMP	88 F 31 C	27 F -3 C		
WET-BULB TEMP	68 F 20 C	23 F -5 C		
TOT HORIZONTAL SOLAR RAD	57 BTU/H.SQFT 179 W/M2	0 BTU/H.SQFT 0 W/M2		
WINDSPEED AT SPACE	2.7 KTS 1.4 M/S	8.0 KTS 4.1 M/S		
CLOUD AMOUNT 0(CLEAR)-10	0	10		

		SENSIBLE		LATENT		SENSIBLE		
		(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)	
WAI	LL CONDUCTION	117.719	34.492	0.000	0.000	-198.790	-58.245	
ROC	OF CONDUCTION	60.191	17.636	0.000	0.000	-51.181	-14.996	
WIN	NDOW GLASS+FRM COND	113.694	33.312	0.000	0.000	-394.660	-115.635	
WIN	NDOW GLASS SOLAR	424.023	124.239	0.000	0.000	21.674	6.351	
DOC	OR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000	
INI	TERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000	
UND	DERGROUND SURF COND	-4.539	-1.330	0.000	0.000	-49.159	-14.404	
OCC	CUPANTS TO SPACE	36.328	10.644	36.415	10.670	36.030	10.557	
LIG	HT TO SPACE	138.488	40.577	0.000	0.000	34.090	9.988	
EQU	JIPMENT TO SPACE	458.633	134.379	23.376	6.849	94.747	27.761	
PRC	CESS TO SPACE	6.974	2.043	4.829	1.415	3.271	0.958	
INF	FILTRATION	11.897	3.486	3.375	0.989	-34.783	-10.192	
TOT	TAL	1363.408	399.479	67.995	19.923	-538.760	-157.857	
TOT	TAL / AREA	0.008	0.025	0.000	0.001	-0.003	-0.010	
		1421 402		410 401		520 EGO VIDEN (V	155 055	
	TAL LOAD				KW	-538.760 KBTU/H		KW
TOT	TAL LOAD / AREA	8.35	BTU/H.SQFT	26.325	W/M2	3.142 BTU/H.SQFT	9.908	W/M2