

Zone Checksums

By MFIA Inc.

UNCONDITIONED

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 0 / 0		Mo/Hr: 0 / 0		Mo/Hr: Heating Design			Cooling		Heating	SADB	0.0	70.0
Outside Air:		OADB/WB/HR: 0 / 0 / 0		OADB: 0		OADB: 22			Ra Plenum		68.3	Return	0.0	68.3
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="1">0.0</td> <td colspan="1">0.0</td> </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict <td colspan="1">0.0</td> <td colspan="1">0.0</td> </th></th>	Fn BldTD <th>Fn Frict <td colspan="1">0.0</td> <td colspan="1">0.0</td> </th>	Fn Frict <td colspan="1">0.0</td> <td colspan="1">0.0</td>	0.0	0.0
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		0.0	0.0	0.0	0.0	0.0	0.0
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	Cooling		Heating		0	0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	Diffuser		Terminal		0	0
Roof Cond	0	0	0	0	0	Roof Cond	0	6.38	Main Fan		Sec Fan		0	0
Glass Solar	0	0	0	0	0	Glass Solar	0	0.00	Nom Vent		AHU Vent		0	0
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	-4,876	48.26	Infil		MinStop/Rh		0	0
Wall Cond	0	0	0	0	0	Wall Cond	-4,051	44.88	Return		Exhaust		0	0
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	Rm Exh		Auxiliary		0	0
Floor	0	0	0	0	0	Floor	-49	0.48	Leakage Dwn		Leakage Ups		0	0
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	No. People		7			
Infiltration	0	0	0	0	0	Infiltration	0	0.00						
Sub Total ==>	0	0	0	0	0	Sub Total ==>	-8,976	100.00						
Internal Loads				Internal Loads										
Lights	0	0	0	0	0	Lights	0	0.00						
People	0	0	0	0	0	People	0	0.00						
Misc	0	0	0	0	0	Misc	0	0.00						
Sub Total ==>	0	0	0	0	0	Sub Total ==>	0	0.00						
Ceiling Load				Ceiling Load										
Ventilation Load	0	0	0	0	0	Ventilation Load	-1,128	0.00						
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0.00						
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0.00						
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0.00						
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	0	0.00						
Sup. Fan Heat	0	0	0	0	0	RA Preheat Diff.	0	0.00						
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0	0	System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0.00						
Grand Total ==>	0	0	0	100.00	0	Grand Total ==>	-10,104	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	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	68.3	70.0	
Aux Clg	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	0.0	0.0	
Opt Vent	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	0.0	0.0	
Total	0.0	0.0															
										Main Htg			Preheat				
										Floor			Humidif				
										Part			Opt Vent				
										Int Door			Total				
										ExFlr			0.0				
										Roof			0.0				
										Wall			0.0				
										Ext Door			0.0				

Zone Checksums

By MFIA Inc.

Zone - 001

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 8 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 92		OADB: 22			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		75.1	86.8	0.2	0.4	1.1	
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00	60.8	75.0	0.0	0.0	0.0	
Skylite Cond	0	0	0	0	0	0	0	0.00	75.1	69.6	0.0	0.0	0.0	
Roof Cond	0	0	0	0	0	0	0	0.00	75.8	70.0	0.0	0.0	0.0	
Glass Solar	4,899	0	4,899	14	4,816	17	0	0.00	86.8	41.0	0.0	0.0	0.0	
Glass/Door Cond	905	0	905	3	841	3	-2,310	8.76	0.2	0.0	0.0	0.0	0.0	
Wall Cond	732	89	820	2	904	3	-1,838	7.81	0.4	0.0	0.0	0.0	0.0	
Partition/Door	0	0	0	0	0	0	0	0.00	0.4	0.0	0.0	0.0	0.0	
Floor	-758	0	-758	-2	-758	-3	-1,667	6.32	1.1	0.0	0.0	0.0	0.0	
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	5,777	89	5,865	17	5,802	20	-5,816	22.88						
Internal Loads				Internal Loads										
Lights	4,170	0	4,170	12	4,406	15	0	0.00						
People	10,637	0	10,637	31	6,067	21	0	0.00						
Misc	5,528	0	5,528	16	5,839	20	0	0.00						
Sub Total ==>	20,335	0	20,335	60	16,312	57	0	0.00						
Ceiling Load	70	-70	0	0	61	0	-211	0.00						
Ventilation Load	0	0	612	2	0	0	0	45.69						
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00						
Ov/Undr Sizing	6,552	0	6,552	19	6,552	23	0	0.00						
Exhaust Heat	0	-187	-187	-1	0	0	0	0.00						
Sup. Fan Heat	0	644	644	2	0	0	0	0.00						
Ret. Fan Heat	0	312	312	1	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	32,734	144	34,134	100.00	28,727	100.00	-6,026	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	384	384
Terminal	384	384
Main Fan	384	384
Sec Fan	0	0
Nom Vent	231	231
AHU Vent	231	231
Infil	0	0
MinStop/Rh	384	384
Return	384	384
Exhaust	231	231
Rm Exh	0	0
Auxiliary	4,958	4,958
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	60.0	60.0
cfm/ft²	0.21	0.21
cfm/ton	407.61	
ft²/ton	1,930.76	
Btu/hr-ft²	6.22	-9.77
No. People	24	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.9	11.3	10.6	384	86.8	64.8	59.7	55.0	53.3	59.7
Aux Clg	1.9	22.8	22.8	4,958	75.0	63.4	71.8	70.7	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.8	34.1								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	1,820		
Part	0		
Int Door	0		
ExFlr	1,820		
Roof	0	0	0
Wall	864	143	17
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-8.3	384	55.0	75.0
Aux Htg	-34.3	4,958	70.0	76.4
Preheat	-9.5	384	41.0	59.2
Reheat	-10.4	384	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-52.1			

Zone Checksums

By MFIA Inc.

Zone - 002

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22		OADB: 22				SADB	61.2	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	2,110	0	2,110	20	2,310	27	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	226	0	226	2	149	2	-578	8.00	-578	-578	8.00	Diffuser	116	116
Wall Cond	65	9	75	1	100	1	-251	3.97	-286	-286	3.97	Terminal	116	116
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	116	116
Floor	-101	0	-101	-1	-99	-1	-222	3.07	-222	-222	3.07	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	70	70
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	70	70
Sub Total ==>	2,301	9	2,310	22	2,460	29	-1,050	15.04	-1,086	-1,086	15.04	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	116	116
Lights	554	0	554	5	586	7	0	0.00	0	0	0.00	Return	116	116
People	4,274	0	4,274	41	2,695	31	0	0.00	0	0	0.00	Exhaust	70	70
Misc	735	0	735	7	776	9	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	5,564	0	5,564	53	4,057	47	0	0.00	0	0	0.00	Auxiliary	1,528	1,528
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-9	0	0	8	0	-28	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	291	3	0	0	-3,636	50.37	-3,636	-3,636	50.37	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0
Ov/Undr Sizing	2,085	0	2,085	20	2,085	24	0	0.00	0	0	0.00	cfm/ft²	0.48	0.48
Exhaust Heat	0	-56	-56	-1	0	0	0	0.00	0	0	0.00	cfm/ton	386.30	
Sup. Fan Heat	0	194	194	2	0	0	0	0.00	0	0	0.00	ft²/ton	806.82	
Ret. Fan Heat	0	94	94	1	0	0	-2,504	34.69	-2,504	-2,504	34.69	Btu/hr-ft²	14.87	-22.44
Duct Heat Pkup	0	0	0	0	0	0	7	-0.10	7	7	-0.10	No. People	11	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	9,959	37	10,482	100.00	8,610	100.00	-1,078	100.00	-7,219	-7,219	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.3	3.6	3.0	116	86.8	64.7	58.8	55.0	53.0	58.8	Floor	242		Main Htg	-2.5	116	55.0	75.0	
Aux Clg	0.6	6.9	6.9	1,528	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-10.3	1,528	70.0	76.3	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-2.9	116	41.0	59.7	
Total	0.9	10.5									ExFlr	242		Reheat	-3.1	116	55.0	75.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	136	36	26	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-15.8			

Zone Checksums

By MFIA Inc.

Zone - 003

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 10		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 76		OADB: 76		OADB: 22				SADB	62.1	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	375	0	375	7	32	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	221	0	221	4	0	-578	-578	13.61	-578	-578	13.61	Diffuser	62	62
Wall Cond	124	17	141	3	0	-254	-289	6.81	-254	-289	6.81	Terminal	62	62
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	62	62
Floor	-67	0	-67	-1	0	-118	-118	2.79	-118	-118	2.79	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	37	37
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	37	37
Sub Total ==>	654	17	671	12	30	-950	-985	23.21	-950	-985	23.21	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	62	62
Lights	296	0	296	5	7	0	0	0.00	0	0	0.00	Return	62	62
People	2,282	0	2,282	42	27	0	0	0.00	0	0	0.00	Exhaust	37	37
Misc	393	0	393	7	9	0	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	2,971	0	2,971	54	42	0	0	0.00	0	0	0.00	Auxiliary	810	810
Ceiling Load	5	-5	0	0	4	-15	0	0.00	-15	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	444	8	0	0	-1,942	45.76	0	-1,942	45.76	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0
Ov/Undr Sizing	1,245	0	1,245	23	27	0	0	0.00	0	0	0.00	cfm/ft²	0.48	0.48
Exhaust Heat	0	-30	-30	-1	0	0	0	0.00	0	0	0.00	cfm/ton	417.23	
Sup. Fan Heat	0	104	104	2	0	0	0	0.00	0	0	0.00	ft²/ton	871.43	
Ret. Fan Heat	0	50	50	1	0	0	-1,337	31.51	0	-1,337	31.51	Btu/hr-ft²	13.77	-22.99
Duct Heat Pkup	0	0	0	0	0	0	20	-0.48	0	20	-0.48	No. People	6	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	4,875	32	5,455	100.00	4,541	100.00	-965	-4,244	100.00	-965	-4,244			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION								
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg				
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								ft²	(%)	MBh	cfm
Main Clg	0.2	1.8	1.2	62	86.6	64.3	57.6	55.0	52.7	57.6	Floor	129					Main Htg	-1.3	62	55.0	75.0
Aux Clg	0.3	3.7	3.7	810	75.0	63.4	71.8	70.8	62.0	71.8	Part	0					Aux Htg	-5.5	810	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					Preheat	-1.6	62	41.0	60.5
Total	0.5	5.5									ExFlr	129					Reheat	-1.7	62	55.0	75.0
											Roof	0	0	0			Humidif	0.0	0	0.0	0.0
											Wall	137	36	26			Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0			Total	-8.5			

Zone Checksums

By MFIA Inc.

Zone - 004

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 87		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	62	62
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Terminal	62	62
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	62	62
Floor	-66	-66	-1	-52	-1	-118	-118	3.47	-118	-118	3.47	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	37	37
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	37	37
Sub Total ==>	-66	-66	-1	-52	-1	-118	-118	3.47	-118	-118	3.47	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	62	62
Lights	300	0	300	6	313	8	0	0.00	0	0	0.00	Return	62	62
People	2,337	0	2,337	47	1,431	38	0	0.00	0	0	0.00	Exhaust	37	37
Misc	395	0	395	8	413	11	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	3,031	0	3,031	61	2,157	57	0	0.00	0	0	0.00	Auxiliary	806	806
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-5	0	0	4	0	-15	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	220	4	0	0	0	56.90	0	-1,931	56.90	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0
Ov/Undr Sizing	1,679	0	1,679	34	1,679	44	0	0.00	0	0	0.00	cfm/ft²	0.48	0.48
Exhaust Heat	0	-30	-30	-1	0	0	0	0.00	0	0	0.00	cfm/ton	439.78	
Sup. Fan Heat	0	103	103	2	0	0	0	0.00	0	0	0.00	ft²/ton	918.54	
Ret. Fan Heat	0	50	50	1	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	13.06	-30.07
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	6	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	4,649	15	4,987	100.00	3,788	100.00	-133	100.00	-3,393	100.00	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.1	1.7	1.3	62	86.6	65.1	61.1	55.0	53.6	61.1	Floor	129		Main Htg	-1.3	62	55.0	75.0
Aux Clg	0.3	3.7	3.7	806	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-5.5	806	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-2.5	62	41.0	71.5
Total	0.4	5.3									ExFlr	129		Reheat	-1.7	62	55.0	75.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-9.4			

Zone Checksums

By MFIA Inc.

Zone - 005

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 82		OADB: 22						SADB	73.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	375	0	375	4	1,009	13	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	221	0	221	2	43	1	-578	7.21	-578	-578	7.21				Cooling	Heating	
Wall Cond	122	17	139	1	31	0	-250	3.56	-285	-285	3.56				Diffuser	130	130
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Terminal	130	130
Floor	-141	0	-141	-1	-141	-2	-249	3.11	-249	-249	3.11				Main Fan	130	130
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Sec Fan	0	0
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	78	78
Sub Total ==>	578	17	596	6	942	12	-1,077	13.88	-1,112	-1,112	13.88				AHU Vent	78	78
Internal Loads				Internal Loads											Infil	0	0
Lights	623	0	623	6	659	8	0	0.00	0	0	0.00				MinStop/Rh	130	130
People	4,804	0	4,804	47	3,029	38	0	0.00	0	0	0.00	Return	130	130			
Misc	826	0	826	8	873	11	0	0.00	0	0	0.00	Exhaust	78	78			
Sub Total ==>	6,254	0	6,254	61	4,560	57	0	0.00	0	0	0.00	Rm Exh	0	0			
Ceiling Load				Ceiling Load								Auxiliary	1,694	1,694			
Ventilation Load	0	-10	0	0	9	0	-31	0.00	0	0	0.00	Leakage Dwn	0	0			
Adj Air Trans Heat	0	0	588	6	0	0	0	51.02	-4,087	-4,087	51.02	Leakage Ups	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	ENGINEERING CKS					
Ov/Undr Sizing	2,505	0	2,505	25	2,505	31	0	0.00	0	0	0.00				% OA	60.0	60.0
Exhaust Heat	0	-63	-63	-1	0	0	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48
Sup. Fan Heat	0	0	218	2	0	0	0	0.00	0	0	0.00				cfm/ton	623.77	
Ret. Fan Heat	0	106	106	1	0	0	0	0.00	-2,815	-2,815	35.14				ft²/ton	1,302.82	
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	3	3	-0.04				Btu/hr-ft²	9.21	-30.07
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00				No. People	12	
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	9,348	49	10,203	100.00	8,017	100.00	-1,109	100.00	-8,010	-8,010	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	2.5	1.6	130	86.6	64.9	60.2	55.0	53.4	60.2	Floor	272		Main Htg	-2.8	130	55.0	75.0	
Aux Clg	0.6	7.7	7.7	1,694	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-11.6	1,694	70.0	76.4	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-5.4	130	41.0	71.5	
											ExFlr	272		Reheat	-3.5	130	55.0	75.0	
Total	0.9	10.3									Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	136	36	26	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-19.8			

Zone Checksums

By MFIA Inc.

Zone - 006

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 76 / 54 / 30		OADB: 68		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	76.1	42.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	1,441	0	1,441	15	1,752	21	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	90	0	90	1	-10	0	-851	11.86	-851	-851	11.86	Diffuser	101	101
Wall Cond	194	23	217	2	170	2	-604	9.50	-682	-682	9.50	Terminal	101	101
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	101	101
Floor	-111	0	-111	-1	-129	-2	-197	2.75	-197	-197	2.75	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	59	59
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	59	59
Sub Total ==>	1,614	23	1,638	17	1,783	22	-1,652	24.11	-1,730	-1,730	24.11	Infil	0	0
Internal Loads				Internal Loads				Internal Loads				MinStop/Rh	101	101
Lights	2,013	0	2,013	21	2,034	25	0	0.00	0	0	0.00	Return	101	101
People	1,451	0	1,451	15	746	9	0	0.00	0	0	0.00	Exhaust	59	59
Misc	2,655	0	2,655	28	2,716	33	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	6,118	0	6,118	64	5,495	66	0	0.00	0	0	0.00	Auxiliary	1,679	1,679
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Dwn	0	0
Ventilation Load	0	-33	0	0	29	0	-100	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	682	7	0	0	0	42.73	-3,067	-3,067	42.73	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	57.9	57.9
Ov/Undr Sizing	964	0	964	10	964	12	0	0.00	0	0	0.00	cfm/ft²	0.12	0.12
Exhaust Heat	0	-48	-48	0	0	0	0	0.00	0	0	0.00	cfm/ton	338.17	
Sup. Fan Heat	0	0	170	2	0	0	0	0.00	0	0	0.00	ft²/ton	2,879.67	
Ret. Fan Heat	0	0	82	1	0	0	0	0.00	-2,358	-2,358	32.85	Btu/hr-ft²	4.17	-4.56
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	-22	-22	0.30	No. People	3	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	8,730	25	9,607	100.00	8,271	100.00	-1,752	100.00	-7,177	-7,177	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F							
Main Clg	0.3	3.6	3.1	101	83.4	61.4	48.5	53.5	48.3	43.8	Floor	862					
Aux Clg	0.5	6.0	6.0	1,679	75.0	63.4	71.8	71.7	62.3	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	0.8	9.6									ExFlr	215					
											Roof	0	0	0			
											Wall	274	36	13			
											Ext Door	28	0	0			
											Total	-13.0					

Zone Checksums

By MFIA Inc.

Zone - 007

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 8 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 89		OADB: 22						SADB	55.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	86.5	41.8			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	5,069	0	5,069	18	5,702	24	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	430	0	430	2	289	1	-1,444	-1,444	7.41	7.08	7.08				Diffuser	290	290
Wall Cond	411	48	459	2	367	2	-1,232	-1,379	7.08	0.00	0.00				Terminal	290	290
Partition/Door	0	0	0	0	0	0	0	0	0.00	0.00	0.00				Main Fan	290	290
Floor	-472	0	-472	-2	-475	-2	-1,024	-1,024	5.25	0.00	0.00				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0	0.00	0.00	0.00				Nom Vent	169	169
Infiltration	0	0	0	0	0	0	0	0	0.00	0.00	0.00				AHU Vent	169	169
<i>Sub Total ==></i>	5,438	48	5,486	20	5,882	25	-3,699	-3,847	19.75	0.00	0.00				Infil	0	0
Internal Loads				Internal Loads											MinStop/Rh	290	290
Lights	4,007	0	4,007	15	3,981	17	0	0	0.00	0.00	0.00				Return	290	290
People	5,940	0	5,940	22	3,563	15	0	0	0.00	0.00	0.00	Exhaust	169	169			
Misc	5,292	0	5,292	19	5,267	22	0	0	0.00	0.00	0.00	Rm Exh	0	0			
<i>Sub Total ==></i>	15,240	0	15,240	55	12,811	54	0	0	0.00	0.00	0.00	Auxiliary	3,867	3,867			
Ceiling Load	65	-65	0	0	57	0	-196	0	0.00	0.00	0.00	Leakage Dwn	0	0			
Ventilation Load	0	0	1,463	5	0	0	0	-8,842	45.39	0	0	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0.00	0.00	0.00				% OA	58.4	58.4
Ov/Undr Sizing	4,833	0	4,833	18	4,833	20	0	0	0.00	0.00	0.00				cfm/ft²	0.17	0.17
Exhaust Heat	0	-137	-137	0	0	0	0	0	0.00	0.00	0.00				cfm/ton	334.08	
Sup. Fan Heat	0	0	486	2	0	0	0	0	0.00	0.00	0.00				ft²/ton	1,952.23	
Ret. Fan Heat	0	235	235	1	0	0	0	-6,744	34.62	0.25	0.25				Btu/hr-ft²	6.15	-6.69
Duct Heat Pkup	0	0	0	0	0	0	0	-48	0.00	0.00	0.00				No. People	15	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00	0.00	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00	0.00	0.00						
<i>Grand Total ==></i>	25,576	80	27,605	100.00	23,583	100.00	-3,895	-19,481	100.00								

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F							
Main Clg	0.9	10.4	9.8	290	85.6	63.3	54.1	53.5	50.6	52.1	Floor	1,692					
Aux Clg	1.4	17.2	17.2	3,867	75.0	63.4	71.8	70.9	62.0	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	2.3	27.6									ExFlr	1,117					
											Roof	0	0	0			
											Wall	572	89	16			
											Ext Door	0	0	0			
											Total	-37.2					

Zone Checksums

By MFIA Inc.

Zone - 008

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h		75.8	86.8	0.2	0.4	1.1	
									70.0	41.0	0.0	0.0	0.0	
Envelope Loads				Envelope Loads							AIRFLOWS			
Skylite Solar	0	0	0	0	0	0	0	0.00	Diffuser		260	260		
Skylite Cond	0	0	0	0	0	0	0	0.00	Terminal		260	260		
Roof Cond	0	0	0	0	0	0	0	0.00	Main Fan		260	260		
Glass Solar	3,166	0	3,166	14	3,464	18	0	0.00	Sec Fan		0	0		
Glass/Door Cond	339	0	339	1	224	1	-866	5.49	Nom Vent		156	156		
Wall Cond	157	20	177	1	239	1	-603	4.30	AHU Vent		156	156		
Partition/Door	0	0	0	0	0	0	0	0.00	Infil		0	0		
Floor	-226	0	-226	-1	-221	-1	-497	3.15	MinStop/Rh		260	260		
Adjacent Floor	0	0	0	0	0	0	0	0.00	Return		260	260		
Infiltration	0	0	0	0	0	0	0	0.00	Exhaust		156	156		
Sub Total ==>	3,436	20	3,455	15	3,706	20	-1,966	12.93	Rm Exh		0	0		
Internal Loads				Internal Loads							ENGINEERING CKS			
Lights	1,242	0	1,242	5	1,312	7	0	0.00	% OA		60.0	60.0		
People	9,573	0	9,573	41	6,036	32	0	0.00	cfm/ft²		0.48	0.48		
Misc	1,646	0	1,646	7	1,739	9	0	0.00	cfm/ton		405.72			
Sub Total ==>	12,461	0	12,461	54	9,087	48	0	0.00	ft²/ton		847.38			
Ceiling Load	21	-21	0	0	18	0	-63	0.00	Btu/hr-ft²		14.16	-23.51		
Ventilation Load	0	0	646	3	0	0	0	-8,144	No. People		25			
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing			0	0			0	0.00						
Ov/Undr Sizing	6,007		6,007	26	6,007	32	0	0.00						
Exhaust Heat		-126	-126	-1			0	0.00						
Sup. Fan Heat			435	2			0	0.00						
Ret. Fan Heat		211	211	1			-5,609	35.54						
Duct Heat Pkup		0	0	0			12	-0.08						
Underflr Sup Ht Pkup			0	0			0	0.00						
Supply Air Leakage		0	0	0			0	0.00						
Grand Total ==>	21,925	83	23,090	100.00	18,819	100.00	-2,029	-15,781	100.00					

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	0.6	7.7	6.4	260	86.8	64.7	58.8	55.0	53.0	58.8	Floor	542					
Aux Clg	1.3	15.4	15.4	3,325	75.0	63.4	71.8	70.7	62.0	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	1.9	23.1									ExFlr	542					
											Roof	0	0	0			
											Wall	291	54	18			
											Ext Door	0	0	0			
											Total	-35.9					

Zone Checksums

By MFIA Inc.

Zone - 009

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 8 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design		Mo/Hr: Heating Design				
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 92		OADB: 22		OADB: 22		OADB: 22				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)		Space Peak	Coil Peak	Percent				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads				Envelope Loads				Envelope Loads				AIRFLOWS		
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00				
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00				
Roof Cond	0	463	463	8	0	0	Roof Cond	0	-447	9.00				
Glass Solar	1,095	0	1,095	19	1,166	24	Glass Solar	0	0	0.00				
Glass/Door Cond	291	0	291	5	297	6	Glass/Door Cond	-816	-816	16.41				
Wall Cond	304	34	337	6	278	6	Wall Cond	-539	-601	12.09				
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00				
Floor	0	0	0	0	0	0	Floor	0	0	0.00				
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00				
Infiltration	0	0	0	0	0	0	Infiltration	0	0	0.00				
<i>Sub Total ==></i>	1,690	496	2,186	38	1,741	36	<i>Sub Total ==></i>	-1,355	-1,864	37.50				
Internal Loads				Internal Loads				Internal Loads				ENGINEERING CKS		
Lights	858	0	858	15	858	18	Lights	0	0	0.00				
People	1,111	0	1,111	19	607	13	People	0	0	0.00				
Misc	1,144	0	1,144	20	1,144	24	Misc	0	0	0.00				
<i>Sub Total ==></i>	3,113	0	3,113	54	2,609	54	<i>Sub Total ==></i>	0	0	0.00				
Ceiling Load	388	-388	0	0	387	8	Ceiling Load	-479	0	0.00				
Ventilation Load	0	0	253	4	0	0	Ventilation Load	0	-1,788	35.97				
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00				
Ov/Undr Sizing	69	69	69	1	69	1	Exhaust Heat	0	0	0.00				
Exhaust Heat	0	-30	-30	-1	0	0	OA Preheat Diff.	0	0	0.00				
Sup. Fan Heat	0	106	106	2	0	0	RA Preheat Diff.	0	0	0.00				
Ret. Fan Heat	0	53	53	1	0	0	Additional Reheat	-1,350	27.15					
Duct Heat Pkup	0	0	0	0	0	0	System Plenum Heat	31	-0.62					
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0	0.00				
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00				
<i>Grand Total ==></i>	5,260	131	5,749	100.00	4,807	100.00	<i>Grand Total ==></i>	-1,833	-4,971	100.00				

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.2	2.2	2.0	60	84.8	63.3	55.6	54.2	50.5	50.4	Floor	360					
Aux Clg	0.3	3.6	3.6	788	75.0	63.4	71.8	70.8	62.0	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
											ExFlr	0					
Total	0.5	5.8									Roof	360	0	0			
											Wall	263	50	19			
											Ext Door	0	0	0			
											Total	-7.7					

Zone Checksums

By MFIA Inc.

Zone - 010

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: 7 / 10		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	85.5	43.8
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	2,627	0	2,627	25	2,627	29	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	-158	0	-158	-2	-158	-2	-866	11.28	-866	-866	11.28	Diffuser	112	112
Wall Cond	92	8	100	1	74	1	-414	6.13	-414	-470	6.13	Terminal	112	112
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	112	112
Floor	-330	0	-330	-3	-282	-3	-552	7.18	-552	-552	7.18	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	61	61
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	61	61
Sub Total ==>	2,230	8	2,238	21	2,262	25	-1,832	24.60	-1,832	-1,888	24.60	Infil	0	0
Internal Loads				Internal Loads				Internal Loads				MinStop/Rh	112	112
Lights	1,357	0	1,357	13	1,403	15	0	0.00	0	0	0.00	Return	112	112
People	1,661	0	1,661	16	906	10	0	0.00	0	0	0.00	Exhaust	61	61
Misc	1,811	0	1,811	17	1,881	20	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	4,828	0	4,828	46	4,190	46	0	0.00	0	0	0.00	Auxiliary	1,582	1,582
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Dwn	0	0
Ventilation Load	0	0	551	5	0	0	0	41.31	0	-3,172	41.31	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	54.2	54.2
Ov/Undr Sizing	2,713	0	2,713	26	2,713	30	0	0.00	0	0	0.00	cfm/ft²	0.19	0.19
Exhaust Heat	0	-49	-49	0	0	0	0	0.00	0	0	0.00	cfm/ton	342.52	
Sup. Fan Heat	0	0	188	2	0	0	0	0.00	0	0	0.00	ft²/ton	1,844.36	
Ret. Fan Heat	0	91	91	1	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	6.51	-6.76
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	4	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	9,794	26	10,559	100.00	9,185	100.00	-1,902	100.00	-1,902	-7,678	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.3	3.9	3.3	112	81.1	59.8	45.3	53.5	46.5	37.5	Floor	602		Main Htg	-2.6	112	53.5	75.0	
Aux Clg	0.6	6.6	6.6	1,582	75.0	63.4	71.8	71.1	62.1	71.8	Part	0		Aux Htg	-10.0	1,582	70.0	75.8	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-1.5	112	43.8	53.5	
Total	0.9	10.6									ExFlr	602		Reheat	-3.3	112	53.5	75.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	218	54	25	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-14.1			

Zone Checksums

By MFIA Inc.

Zone - 011

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	73.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	1,055	0	1,055	10	1,155	14	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	113	0	113	1	75	1	-289	3.21	-289	-289	3.54				Diffuser	137	137
Wall Cond	87	10	96	1	132	2	-332	4.54	-370	-370	4.54				Terminal	137	137
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	137	137
Floor	-119	0	-119	-1	-116	-1	-261	0.00	-261	-261	0.00				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	82	82
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	82	82
Sub Total ==>	1,136	10	1,146	11	1,245	15	-882	11.29	-920	-920	11.29				Infil	0	0
Internal Loads				Internal Loads											MinStop/Rh	137	137
Lights	654	0	654	6	691	8	0	0.00	0	0	0.00				Return	137	137
People	5,040	0	5,040	47	3,178	38	0	0.00	0	0	0.00	Exhaust	82	82			
Misc	867	0	867	8	915	11	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	6,560	0	6,560	61	4,784	57	0	0.00	0	0	0.00	Auxiliary	1,767	1,767			
Ceiling Load				Ceiling Load								Leakage Dwn	0	0			
Ventilation Load	0	-11	0	0	10	0	-33	0.00	0	0	0.00	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	320	3	0	0	0	52.57	-4,287	-4,287	52.57	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	60.0	60.0
Ov/Undr Sizing	2,372	0	2,372	22	2,372	28	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48
Exhaust Heat	0	-67	-67	-1	0	0	0	0.00	0	0	0.00				cfm/ton	641.20	
Sup. Fan Heat	0	0	229	2	0	0	0	0.00	0	0	0.00				ft²/ton	1,339.21	
Ret. Fan Heat	0	111	111	1	0	0	0	0.00	-2,953	-2,953	36.21				Btu/hr-ft²	8.96	-30.07
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	5	5	-0.06				No. People	13	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	10,079	43	10,672	100.00	8,411	100.00	-915	100.00	-8,156	-8,156	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	2.6	1.9	137	86.8	64.7	59.0	55.0	53.1	59.0	Floor	285		Main Htg	-3.0	137	55.0	75.0	
Aux Clg	0.7	8.1	8.1	1,767	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-12.2	1,767	70.0	76.4	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-5.6	137	41.0	71.5	
Total	0.9	10.7									ExFlr	285		Reheat	-3.7	137	55.0	75.0	
											Roof	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	147	18	12	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-20.8			

Zone Checksums

By MFIA Inc.

Zone - 012

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	61.6	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	2,110	0	2,110	19	2,310	25	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	226	0	226	2	149	2	-578	7.43	-578	-578	7.43				Diffuser	125	125
Wall Cond	72	10	82	1	110	1	-277	4.04	-314	-314	4.04				Terminal	125	125
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	125	125
Floor	-109	0	-109	-1	-107	-1	-240	3.09	-240	-240	3.09				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	75	75
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	75	75
Sub Total ==>	2,299	10	2,309	20	2,462	27	-1,094	14.56	-1,132	-1,132	14.56				Infil	0	0
Internal Loads				Internal Loads											MinStop/Rh	125	125
Lights	600	0	600	5	634	7	0	0.00	0	0	0.00				Return	125	125
People	4,627	0	4,627	41	2,918	31	0	0.00	0	0	0.00	Exhaust	75	75			
Misc	796	0	796	7	841	9	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	6,024	0	6,024	53	4,393	47	0	0.00	0	0	0.00	Auxiliary	1,639	1,639			
Ceiling Load				Ceiling Load								Leakage Dwn	0	0			
Ventilation Load	0	0	315	3	0	0	-30	0.00	0	0	0.00	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	-3,937	-3,937	50.65	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	60.0	60.0
Ov/Undr Sizing	2,405	0	2,405	21	2,405	26	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48
Exhaust Heat	0	-61	-61	-1	0	0	0	0.00	0	0	0.00				cfm/ton	390.77	
Sup. Fan Heat	0	0	210	2	0	0	0	0.00	0	0	0.00				ft²/ton	816.17	
Ret. Fan Heat	0	102	102	1	0	0	0	0.00	-2,711	-2,711	34.88				Btu/hr-ft²	14.70	-22.69
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	7	7	-0.09				No. People	12	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	10,738	40	11,303	100.00	9,268	100.00	-1,125	100.00	-7,772	-7,772	100.00						

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Capacity		Coil Airflow	Ent	Lvg		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F		
Main Clg	0.3	3.9	3.3	125	86.8	64.7	58.8	55.0	53.0	58.8	Floor	262	Main Htg	-2.7	125	55.0	75.0	
Aux Clg	0.6	7.5	7.5	1,639	75.0	63.4	71.8	70.8	62.0	71.8	Part	0	Aux Htg	-11.2	1,639	70.0	76.3	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	Preheat	-3.2	125	41.0	60.1	
											ExFlr	262	Reheat	-3.4	125	55.0	75.0	
Total	0.9	11.3									Roof	0	Humidif	0.0	0	0.0	0.0	
											Wall	146	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	Total	-17.1				

Zone Checksums

By MFIA Inc.

Zone - 013

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES													
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating												
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	61.6	75.0											
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6											
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0											
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0											
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0											
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0											
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0											
Glass Solar	2,110	0	2,110	19	2,310	25	0	0.00	0	0	0.00	AIRFLOWS													
Glass/Door Cond	226	0	226	2	149	2	-578	7.41	-578	-315	4.04				Diffuser	126	126								
Wall Cond	72	10	82	1	110	1	-278	4.04	0	0	0.00				Terminal	126	126								
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	126	126								
Floor	-110	-110	-1	-107	-1	-241	-241	3.09	0	0	0.00				Sec Fan	0	0								
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	76	76								
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	76	76								
<i>Sub Total ==></i>	2,299	10	2,309	20	2,462	26	-1,096	14.54	-1,096	-1,134	14.54				Infil	0	0								
Internal Loads				Internal Loads											MinStop/Rh	126	126								
Lights	603	0	603	5	637	7	0	0.00	0	0	0.00				Return	126	126								
People	4,645	0	4,645	41	2,929	31	0	0.00	0	0	0.00	Exhaust	76	76											
Misc	799	0	799	7	844	9	0	0.00	0	0	0.00	Rm Exh	0	0											
<i>Sub Total ==></i>	6,047	0	6,047	53	4,409	47	0	0.00	0	0	0.00	Auxiliary	1,645	1,645											
Ceiling Load				Ceiling Load								Leakage Dwn	0	0											
Ventilation Load	0	0	316	3	0	0	-30	0.00	0	-3,952	50.66	Leakage Ups	0	0											
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS													
Dehumid. Ov Sizing			0	0	9	0	0	0.00	0	0	0.00				% OA	60.0	60.0								
Ov/Undr Sizing	2,421		2,421	21	2,421	26	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48								
Exhaust Heat		-61	-61	-1			0	0.00	0	0	0.00				cfm/ton	390.98									
Sup. Fan Heat			211	2			0	0.00	0	0	0.00				ft²/ton	816.60									
Ret. Fan Heat		102	102	1			0	0.00	-2,722	34.89					Btu/hr-ft²	14.70	-22.70								
Duct Heat Pkup		0	0	0			0	0.00	7	-0.09					No. People	12									
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00				HEATING COIL SELECTION										
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00							Capacity	MBh	Coil Airflow	cfm	Ent	°F	Lvg	°F
<i>Grand Total ==></i>	10,777	41	11,345	100.00	9,301	100.00	-1,127	100.00	-1,127	-7,800	100.00							Main Htg	-2.7	126	55.0	75.0			
COOLING COIL SELECTION								AREAS				Aux Htg													
Total Capacity	ton	MBh	Sens Cap.	MBh	Coil Airflow	cfm	Enter DB/WB/HR	°F °F gr/lb	Leave DB/WB/HR	°F °F gr/lb	Gross Total	Glass	ft² (%)	Preheat				-3.3	126	41.0	60.1				
Main Clg	0.3	3.9	3.3		126	86.8	64.7	58.8	55.0	53.0	58.8	Floor	263					Reheat	-3.4	126	55.0	75.0			
Aux Clg	0.6	7.5	7.5		1,645	75.0	63.4	71.8	70.8	62.0	71.8	Part	0					Humidif	0.0	0	0.0	0.0			
Opt Vent	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0	Roof	0	0				Opt Vent	0.0	0	0.0	0.0			
<i>Total</i>	0.9	11.3										Wall	146	36				24	<i>Total</i>	-17.2					

Zone Checksums

By MFIA Inc.

Zone - 014

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	61.8	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	2,110	0	2,110	18	2,310	24	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	226	0	226	2	149	2	-578	7.04	-578	-578	7.04				Diffuser	133	133
Wall Cond	82	11	92	1	124	1	-314	4.33	-355	-355	4.33				Terminal	133	133
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	133	133
Floor	-115	0	-115	-1	-113	-1	-254	3.09	-254	-254	3.09				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	80	80
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	80	80
Sub Total ==>	2,303	11	2,313	19	2,470	25	-1,145	14.46	-1,145	-1,186	14.46				Infil	0	0
Internal Loads				Internal Loads											MinStop/Rh	133	133
Lights	635	0	635	5	671	7	0	0.00	0	0	0.00				Return	133	133
People	4,892	0	4,892	41	3,085	32	0	0.00	0	0	0.00	Exhaust	80	80			
Misc	841	0	841	7	889	9	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	6,369	0	6,369	53	4,644	48	0	0.00	0	0	0.00	Auxiliary	1,722	1,722			
Ceiling Load	11	-11	0	0	9	0	-32	0.00	0	0	0.00	Leakage Dwn	0	0			
Ventilation Load	0	0	332	3	0	0	0	50.72	-4,162	-4,162	50.72	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	60.0	60.0
Ov/Undr Sizing	2,640	0	2,640	22	2,640	27	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48
Exhaust Heat	0	-65	-65	-1	0	0	0	0.00	0	0	0.00				cfm/ton	393.77	
Sup. Fan Heat	0	0	222	2	0	0	0	0.00	0	0	0.00				ft²/ton	822.43	
Ret. Fan Heat	0	108	108	1	0	0	0	0.00	-2,866	-2,866	34.93				Btu/hr-ft²	14.59	-22.85
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	9	9	-0.11				No. People	13	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	11,322	43	11,920	100.00	9,763	100.00	-1,177	100.00	-1,177	-8,205	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.3	4.0	3.4	133	86.8	64.7	58.8	55.0	53.0	58.8	Floor	277		Main Htg	-2.9	133	55.0	75.0	
Aux Clg	0.7	7.9	7.9	1,722	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-11.8	1,722	70.0	76.4	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-3.5	133	41.0	60.3	
Total	1.0	11.9									ExFlr	277		Reheat	-3.6	133	55.0	75.0	
											Roof	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	160	36	22	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-18.2			

Zone Checksums

By MFIA Inc.

Zone - 015

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.8	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	2,110	0	2,110	12	2,310	17	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	226	0	226	1	149	1	-578	4.32	-578	-578	4.32	Diffuser	222	222
Wall Cond	144	17	161	1	219	2	-552	4.62	-617	-617	4.62	Terminal	222	222
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	222	222
Floor	-193	0	-193	-1	-189	-1	-424	3.18	-424	-424	3.18	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	133	133
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	133	133
Sub Total ==>	2,287	17	2,304	13	2,489	18	-1,554	12.12	-1,619	-1,619	12.12	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	222	222
Lights	1,061	0	1,061	6	1,121	8	0	0.00	0	0	0.00	Return	222	222
People	8,178	0	8,178	47	5,156	38	0	0.00	0	0	0.00	Exhaust	133	133
Misc	1,406	0	1,406	8	1,485	11	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	10,645	0	10,645	62	7,762	57	0	0.00	0	0	0.00	Auxiliary	2,842	2,842
Ceiling Load	18	-18	0	0	16	0	-54	0.00	0	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	520	3	0	0	0	52.09	-6,957	-6,957	52.09	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0
Ov/Undr Sizing	3,380	0	3,380	20	3,380	25	0	0.00	0	0	0.00	cfm/ft²	0.48	0.48
Exhaust Heat	0	-108	-108	-1	0	0	0	0.00	0	0	0.00	cfm/ton	644.94	
Sup. Fan Heat	0	0	372	2	0	0	0	0.00	0	0	0.00	ft²/ton	1,347.02	
Ret. Fan Heat	0	180	180	1	0	0	0	35.87	-4,791	-4,791	35.87	Btu/hr-ft²	8.91	-30.07
Duct Heat Pkup	0	0	0	0	0	0	0	-0.08	11	11	-0.08	No. People	21	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	16,330	71	17,292	100.00	13,647	100.00	-1,607	100.00	-13,355	-13,355	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.3	4.1	3.1	222	86.8	64.7	59.0	55.0	53.1	59.0	Floor	463		Main Htg	-4.8	222	55.0	75.0	
Aux Clg	1.1	13.2	13.2	2,842	75.0	63.4	71.8	70.7	62.0	71.8	Part	0		Aux Htg	-19.8	2,842	70.0	76.5	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-9.1	222	41.0	71.5	
Total	1.4	17.3									ExFlr	463		Reheat	-6.0	222	55.0	75.0	
											Roof	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	252	36	14	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-33.7			

Zone Checksums

By MFIA Inc.

Zone - 016

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 17		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 92 / 64 / 46		OADB: 87		OADB: 22						SADB	55.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	83.7	46.1			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	2,068	0	2,068	43	2,320	54	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	210	0	210	4	150	4	-578	15.09	-578	-578	15.09				Diffuser	52	52
Wall Cond	140	17	157	3	102	2	-453	13.26	-508	-508	13.26				Terminal	52	52
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	52	52
Floor	-104	0	-104	-2	-96	-2	-216	5.65	-216	-216	5.65				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	26	26
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	26	26
<i>Sub Total ==></i>	2,314	17	2,331	48	2,476	58	-1,246	34.00	-1,246	-1,301	34.00				Infil	0	0
Internal Loads				Internal Loads											MinStop/Rh	52	52
Lights	560	0	560	12	566	13	0	0.00	0	0	0.00				Return	52	52
People	633	0	633	13	347	8	0	0.00	0	0	0.00	Exhaust	26	26			
Misc	744	0	744	15	753	18	0	0.00	0	0	0.00	Rm Exh	0	0			
<i>Sub Total ==></i>	1,937	0	1,937	40	1,666	39	0	0.00	0	0	0.00	Auxiliary	865	865			
Ceiling Load				Ceiling Load								Leakage Dwn	0	0			
Ventilation Load	0	0	349	7	0	0	-27	0.00	0	0	0.00	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	-1,344	-1,344	35.11	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	49.4	49.4
Ov/Undr Sizing	120	0	120	2	120	3	0	0.00	0	0	0.00				cfm/ft²	0.22	0.22
Exhaust Heat	0	-21	-21	0	0	0	0	0.00	0	0	0.00				cfm/ton	354.56	
Sup. Fan Heat	0	87	87	2	0	0	0	0.00	0	0	0.00				ft²/ton	1,611.19	
Ret. Fan Heat	0	42	42	1	0	0	0	0.00	-1,210	-1,210	31.62				Btu/hr-ft²	7.45	-7.32
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	28	28	-0.72				No. People	1	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
<i>Grand Total ==></i>	4,380	29	4,845	100.00	4,269	100.00	-1,274	100.00	-1,274	-3,828	100.00						

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	1.8	1.6	52	83.8	61.8	50.1	53.5	49.6	48.3	Floor	236		Main Htg	-1.2	52	53.5	75.0	
Aux Clg	0.3	3.1	3.1	865	75.0	63.4	71.8	71.7	62.3	71.8	Part	0		Aux Htg	-4.6	865	70.0	75.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.5	52	46.1	53.5	
<i>Total</i>	0.4	4.9									ExFlr	236		Reheat	-1.5	52	53.5	75.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	213	36	17	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	<i>Total</i>	-6.4			

Zone Checksums

By MFIA Inc.

Zone - 017

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 10		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 76		OADB: 22		OADB: 22				SADB	59.2	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	376	0	376	7	32	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	222	0	222	4	-16	0	-579	12.52	-579	-579	12.52	Diffuser	58	58
Wall Cond	228	27	255	5	5	0	-589	14.22	-589	-658	14.22	Terminal	58	58
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	58	58
Floor	-181	0	-181	-3	-4	0	-320	6.91	-320	-320	6.91	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	35	35
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	35	35
Sub Total ==>	646	27	673	13	28	1,254	-1,488	33.65	-1,488	-1,557	33.65	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	58	58
Lights	846	0	846	16	19	0	0	0.00	0	0	0.00	Return	58	58
People	1,132	0	1,132	21	12	0	0	0.00	0	0	0.00	Exhaust	35	35
Misc	1,121	0	1,121	21	25	0	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	3,099	0	3,099	58	56	2,522	0	0.00	0	0	0.00	Auxiliary	770	770
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-14	0	0	12	0	-43	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	760	14	0	0	0	39.62	0	-1,834	39.62			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ov/Undr Sizing	677	0	677	13	15	677	0	0.00	0	0	0.00			
Exhaust Heat	0	-28	-28	-1	0	0	0	0.00	0	0	0.00			
Sup. Fan Heat	0	98	98	2	0	0	0	0.00	0	0	0.00			
Ret. Fan Heat	0	47	47	1	0	0	0	0.00	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	4,436	31	5,325	100.00	100.00	4,465	-1,531	100.00	-1,531	-4,627	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	1.9	1.3	58	86.6	63.2	51.8	55.0	51.2	51.8	Floor	369		Main Htg	-1.3	58	55.0	75.0	
Aux Clg	0.3	3.5	3.5	770	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-5.2	770	70.0	76.3	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-1.3	58	41.0	57.7	
Total	0.4	5.3									ExFlr	349		Reheat	-1.6	58	55.0	75.0	
											Roof	0	0	Humidif	0.0	0	0.0	0.0	
											Wall	266	36	13	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-7.8			

Zone Checksums

By MFIA Inc.

Zone - 018

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 10		Mo/Hr: 6 / 9		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 76 / 54 / 30		OADB: 68		OADB: 22		OADB: 22				SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	76.0	48.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	1,443	0	1,443	61	77	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	-16	0	-16	-1	-5	-578	-578	25.82	-578	-578	25.82	Diffuser	27	27
Wall Cond	7	1	8	0	-1	-253	-288	12.86	-253	-288	12.86	Terminal	27	27
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	27	27
Floor	-67	0	-67	-3	-4	-118	-118	5.26	-118	-118	5.26	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	12	12
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	12	12
Sub Total ==>	1,368	1	1,369	58	67	-949	-984	43.94	-949	-984	43.94	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	27	27
Lights	295	0	295	12	11	0	0	0.00	0	0	0.00	Return	27	27
People	373	0	373	16	6	0	0	0.00	0	0	0.00	Exhaust	12	12
Misc	391	0	391	16	15	0	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	1,059	0	1,059	45	32	0	0	0.00	0	0	0.00	Auxiliary	363	363
Ceiling Load	5	-5	0	0	4	-15	0	0.00	-15	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	-108	-5	0	0	-639	28.53	0	-639	28.53	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	44.7	44.7
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	0.21	0.21
Exhaust Heat	0	-10	-10	0	0	0	0	0.00	0	0	0.00	cfm/ton	436.05	
Sup. Fan Heat	0	0	46	2	0	0	0	0.00	0	0	0.00	ft²/ton	2,050.85	
Ret. Fan Heat	0	22	22	1	0	0	-637	28.44	0	-637	28.44	Btu/hr-ft²	5.85	-6.41
Duct Heat Pkup	0	0	0	0	0	0	20	-0.91	0	20	-0.91	No. People	1	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	2,432	8	2,378	100.00	2,288	-964	-2,240	100.00	-964	-2,240	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.1	0.8	0.7	27	76.0	56.3	38.4	53.5	45.4	33.5	Floor	129		Main Htg	-0.6	27	53.5	75.0	
Aux Clg	0.1	1.6	1.6	363	75.0	63.4	71.8	70.9	62.0	71.8	Part	0		Aux Htg	-2.4	363	70.0	76.2	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.2	27	48.4	53.5	
Total	0.2	2.4									ExFlr	129		Reheat	-0.8	27	53.5	75.0	
											Roof	0	0	0	Humidif	0.0	0	0.0	0.0
											Wall	137	36	26	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.3			

Zone Checksums

By MFIA Inc.

Zone - 019

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating		
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 87		OADB: 22						SADB	73.0	75.0	
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0	
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0	
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0	
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0	
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0	
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	20	20	
Wall Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Terminal	20	20	
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	20	20	
Floor	-67	-67	-4	-53	-4	-118	-118	9.73	-118	-118	9.73	Sec Fan	0	0	
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	12	12	
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	12	12	
Sub Total ==>	-67	-67	-4	-53	-4	-118	-118	9.73	-118	-118	9.73	Infil	0	0	
Internal Loads				Internal Loads								MinStop/Rh	20	20	
Lights	300	0	300	19	313	0	0	0.00	0	0	0.00	Return	20	20	
People	405	0	405	25	225	0	0	0.00	0	0	0.00	Exhaust	12	12	
Misc	395	0	395	24	414	0	0	0.00	0	0	0.00	Rm Exh	0	0	
Sub Total ==>	1,100	0	1,100	68	952	0	0	0.00	0	0	0.00	Auxiliary	280	280	
Ceiling Load				Ceiling Load								Leakage Dwn	0	0	
Ventilation Load	0	-5	0	0	4	-15	0	0.00	-15	0	0.00	Leakage Ups	0	0	
Adj Air Trans Heat	0	0	191	12	0	0	-639	52.73	0	-639	52.73	ENGINEERING CKS			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0	
Ov/Undr Sizing	350	-10	350	22	350	0	0	0.00	0	0	0.00	cfm/ft²	0.16	0.16	
Exhaust Heat		-10	-10	-1		0	0	0.00	0	0	0.00	cfm/ton	601.78		
Sup. Fan Heat		34	34	2		0	0	0.00	0	0	0.00	ft²/ton	3,802.13		
Ret. Fan Heat		17	17	1		0	0	0.00	0	0	0.00	Btu/hr-ft²	3.16	-9.94	
Duct Heat Pkup		0	0	0		0	0	0.00	0	0	0.00	No. People	1		
Underflr Sup Ht Pkup		0	0	0		0	0	0.00	0	0	0.00				
Supply Air Leakage		0	0	0		0	0	0.00	0	0	0.00				
Grand Total ==>	1,389	2	1,616	100.00	1,254	100.00	-133	-1,212	100.00	-133	-1,212	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.0	0.4	0.3	20	86.6	63.9	55.4	55.0	52.2	55.4	Floor	129		Main Htg	-0.4	20	55.0	75.0
Aux Clg	0.1	1.2	1.2	280	75.0	63.4	71.8	71.0	62.1	71.8	Part	0		Aux Htg	-1.8	280	70.0	76.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.8	20	41.0	71.5
Total	0.1	1.6									ExFlr	129		Reheat	-0.6	20	55.0	75.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.1			

Zone Checksums

By MFIA Inc.

Zone - 020

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES																
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating															
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 82		OADB: 22						SADB	73.0	75.0														
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6														
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0														
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.6	41.0														
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0														
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0														
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0														
Glass Solar	375	0	375	3	1,009	10	0	0.00	0	0	0.00	AIRFLOWS																
Glass/Door Cond	221	0	221	2	43	0	-578	5.62	-578	-578	5.62				Diffuser	169	169											
Wall Cond	196	24	221	2	50	0	-401	4.39	-451	-451	4.39				Terminal	169	169											
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	169	169											
Floor	-182	0	-182	-1	-182	-2	-322	3.14	-322	-322	3.14				Sec Fan	0	0											
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	101	101											
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	101	101											
Sub Total ==>	611	24	635	5	920	9	-1,301	13.15	-1,301	-1,351	13.15				Infil	0	0											
Internal Loads				Internal Loads				Internal Loads							MinStop/Rh	169	169											
Lights	807	0	807	6	852	8	0	0.00	0	0	0.00				Return	169	169											
People	6,217	0	6,217	47	3,920	38	0	0.00	0	0	0.00	Exhaust	101	101														
Misc	1,069	0	1,069	8	1,129	11	0	0.00	0	0	0.00	Rm Exh	0	0														
Sub Total ==>	8,093	0	8,093	61	5,901	57	0	0.00	0	0	0.00	Auxiliary	2,184	2,184														
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Dwn	0	0														
Ventilation Load	0	0	761	6	0	0	-41	0.00	0	0	0.00	Leakage Ups	0	0														
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	-5,289	51.48	ENGINEERING CKS																
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	60.0	60.0											
Ov/Undr Sizing	3,542	0	3,542	26	3,542	34	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48											
Exhaust Heat	0	-82	-82	-1	0	0	0	0.00	0	0	0.00				cfm/ton	570.97												
Sup. Fan Heat	0	0	283	2	0	0	0	0.00	0	0	0.00				ft²/ton	1,192.53												
Ret. Fan Heat	0	137	137	1	0	0	0	0.00	-3,642	35.45					Btu/hr-ft²	10.06	-30.07											
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	9	-0.09					No. People	16												
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00				COOLING COIL SELECTION													
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00							AREAS										
Grand Total ==>	12,259	66	13,369	100.00	10,375	100.00	-1,342	100.00	-10,274	100.00	HEATING COIL SELECTION																	
COOLING COIL SELECTION				COOLING COIL SELECTION				COOLING COIL SELECTION						AREAS							HEATING COIL SELECTION							
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR	Leave DB/WB/HR	Gross Total		Glass	Capacity		Coil Airflow				Ent							Lvg							
ton	MBh	cfm	°F °F gr/lb	°F °F gr/lb		ft² (%)	MBh	cfm	°F	°F																		
Main Clg	0.3	3.5	2.4	169	86.6	64.9	60.2	55.0	53.4	60.2				Floor							352	-3.6	169	55.0	75.0			
Aux Clg	0.8	10.0	10.0	2,184	75.0	63.4	71.8	70.8	62.0	71.8				Part							0	-15.1	2,184	70.0	76.4			
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0				Int Door							0	-6.9	169	41.0	71.5			
Total	1.1	13.6												ExFlr							352	-4.6	169	55.0	75.0			
														Roof	0	0.0	0				0.0	0.0						
														Wall	194	0.0	0	0.0	0.0									
											Ext Door	0	-25.6															

Zone Checksums

By MFIA Inc.

Zone - 021

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 82		OADB: 22						SADB	73.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.8	70.0			
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.6	41.0			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	375	0	375	2	1,009	8	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	221	0	221	1	43	0	-578	4.40	-578	-578	4.40				Diffuser	218	218
Wall Cond	264	31	295	2	67	0	-540	4.60	-604	-604	4.60				Terminal	218	218
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Main Fan	218	218
Floor	-235	0	-235	-1	-235	-2	-417	3.17	-417	-417	3.17				Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	131	131
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	131	131
Sub Total ==>	625	31	656	4	884	7	-1,534	12.17	-1,534	-1,598	12.17				Infil	0	0
Internal Loads				Internal Loads				Internal Loads							MinStop/Rh	218	218
Lights	1,043	0	1,043	6	1,102	8	0	0.00	0	0	0.00				Return	218	218
People	8,036	0	8,036	46	5,067	38	0	0.00	0	0	0.00	Exhaust	131	131			
Misc	1,382	0	1,382	8	1,460	11	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	10,461	0	10,461	60	7,628	57	0	0.00	0	0	0.00	Auxiliary	2,798	2,798			
Ceiling Load	17	-17	0	0	15	0	-53	0.00	0	0	0.00	Leakage Dwn	0	0			
Ventilation Load	0	0	984	6	0	0	0	52.06	-6,836	-6,836	52.06	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00				% OA	60.0	60.0
Ov/Undr Sizing	4,884	0	4,884	28	4,884	36	0	0.00	0	0	0.00				cfm/ft²	0.48	0.48
Exhaust Heat	0	-106	-106	-1	0	0	0	0.00	0	0	0.00				cfm/ton	535.29	
Sup. Fan Heat	0	0	365	2	0	0	0	0.00	0	0	0.00				ft²/ton	1,118.00	
Ret. Fan Heat	0	177	177	1	0	0	-4,708	35.85	0	0	0.00				Btu/hr-ft²	10.73	-30.07
Duct Heat Pkup	0	0	0	0	0	0	0	-0.08	11	11	-0.08				No. People	21	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	15,987	84	17,421	100.00	13,411	100.00	-1,587	100.00	-1,587	-13,132	100.00						

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft² (%)	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.4	4.9	3.4	218	86.6	64.9	60.2	55.0	53.4	60.2	Floor	455						
Aux Clg	1.1	12.9	12.9	2,798	75.0	63.4	71.8	70.7	62.0	71.8	Part	0						
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0						
Total	1.5	17.8									ExFlr	455						
											Roof	0	0	0				
											Wall	247	36	14				
											Ext Door	0	0	0				
											Total	-33.1						

Zone Checksums

By MFIA Inc.

Zone - 022

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 8 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	75.1	69.6
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.6	41.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	95	95
Wall Cond	137	14	151	2	143	2	-320	6.11	-320	-351	6.11	Terminal	95	95
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	95	95
Floor	-64	0	-64	-1	-64	-1	-135	2.34	-135	-135	2.34	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	57	57
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	57	57
<i>Sub Total ==></i>	73	14	87	1	79	1	-454	8.46	-454	-486	8.46	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	95	95
Lights	2,191	0	2,191	24	2,269	30	0	0.00	0	0	0.00	Return	95	95
People	1,436	0	1,436	16	796	10	0	0.00	0	0	0.00	Exhaust	57	57
Misc	2,886	0	2,886	32	3,003	39	0	0.00	0	0	0.00	Rm Exh	0	0
<i>Sub Total ==></i>	6,514	0	6,514	71	6,069	79	0	0.00	0	0	0.00	Auxiliary	1,537	1,537
Ceiling Load				Ceiling Load								Leakage Dwn	0	0
Ventilation Load	0	-36	0	0	32	0	-108	0.00	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	825	9	0	0	0	51.79	0	-2,976	51.79	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	60.0	60.0
Ov/Undr Sizing	1,503	0	1,503	16	1,503	20	0	0.00	0	0	0.00	cfm/ft²	0.10	0.10
Exhaust Heat	0	-46	-46	-1	0	0	0	0.00	0	0	0.00	cfm/ton	326.43	
Sup. Fan Heat	0	0	159	2	0	0	0	0.00	0	0	0.00	ft²/ton	3,216.27	
Ret. Fan Heat	0	77	77	1	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	3.73	-4.08
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	3	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Grand Total ==></i>	8,126	8	9,119	100.00	7,682	100.00	-562	100.00	-562	-5,747	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.3	3.5	3.2	95	86.4	63.8	55.0	53.5	50.9	53.2	Floor	934		Main Htg	-2.2	95	53.5	75.0
Aux Clg	0.5	5.6	5.6	1,537	75.0	63.4	71.8	71.6	62.3	71.8	Part	0		Aux Htg	-8.5	1,537	70.0	75.1
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-1.6	95	41.0	53.5
<i>Total</i>	0.8	9.1									ExFlr	147		Reheat	-2.8	95	53.5	75.0
											Roof	0	0	Humidif	0.0	0	0.0	0.0
											Wall	123	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	<i>Total</i>	-12.3			

Zone Checksums

By MFIA Inc.

Zone - 023

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 92		OADB: 22						SADB	62.5	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	84.8	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	589	589	9	0	0	-529	12.14	0	-158	3.63	Fn Frict	1.1	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Wall Cond	56	5	60	1	56	1	-145	3.63	0	-158	3.63			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	56	594	649	10	56	1	-145	15.77	-145	-687	15.77			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	1,031	0	1,031	17	1,031	20	0	0.00	0	0	0.00	Cooling	Heating	
People	1,340	0	1,340	22	744	14	0	0.00	0	0	0.00	Diffuser	71	71
Misc	1,366	0	1,366	22	1,366	26	0	0.00	0	0	0.00	Terminal	71	71
Sub Total ==>	3,736	0	3,736	60	3,141	61	0	0.00	0	0	0.00	Main Fan	71	71
Ceiling Load	459	-459	0	0	458	9	-566	0.00	-566	0	0.00	Sec Fan	0	0
Ventilation Load	0	0	150	2	0	0	0	48.51	0	-2,115	48.51	Nom Vent	40	40
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	AHU Vent	40	40
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	Infil	0	0
Ov/Undr Sizing	1,519		1,519	24	1,519	29	0	0.00	0	0	0.00	MinStop/Rh	71	71
Exhaust Heat		-36	-36	-1			0	0.00	0	0	0.00	Return	71	71
Sup. Fan Heat			125	2			0	0.00	0	0	0.00	Exhaust	40	40
Ret. Fan Heat		63	63	1			0	0.00	0	0	0.00	Rm Exh	0	0
Duct Heat Pkup		0	0	0			0	0.00	0	0	0.00	Auxiliary	914	914
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Grand Total ==>	5,770	162	6,206	100.00	5,173	100.00	-711	100.00	-711	-4,359	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F	
Main Clg	0.2	2.0	2.0	71	84.8	63.8	57.9	55.0	52.8	57.9	Floor	426	Main Htg	-1.5	71	55.0	75.0
Aux Clg	0.4	4.2	4.2	914	75.0	63.4	71.8	70.7	62.0	71.8	Part	0	Aux Htg	-6.3	914	70.0	76.4
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	Preheat	-1.8	71	42.4	60.9
											ExFlr	0	Reheat	-1.9	71	55.0	75.0
Total	0.5	6.2									Roof	426	Humidif	0.0	0	0.0	0.0
											Wall	56	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	Total	-9.6			

Zone Checksums

By MFIA Inc.

Zone - 024

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 11		Mo/Hr: 6 / 10		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 82 / 58 / 36		OADB: 72		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	78.4	49.5
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	-36	-2	0	0	0	-161	7.03	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	1,207	0	51	1,572	65	0	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	27	0	1	-73	-3	-578	-578	25.29	-578	-578	25.29	Diffuser	29	29
Wall Cond	21	1	1	-6	0	-217	-246	10.76	-217	-246	10.76	Terminal	29	29
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	29	29
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	12	12
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	12	12
Sub Total ==>	1,255	-35	51	1,493	62	-794	-984	43.07	-794	-984	43.07	Infil	0	0
Internal Loads				Internal Loads				Internal Loads				MinStop/Rh	29	29
Lights	308	0	13	262	11	0	0	0.00	0	0	0.00	Return	29	29
People	383	0	16	163	7	0	0	0.00	0	0	0.00	Exhaust	12	12
Misc	410	0	17	365	15	0	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	1,101	0	46	790	33	0	0	0.00	0	0	0.00	Auxiliary	382	382
Ceiling Load	139	-139	0	139	6	-172	0	0.00	-172	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	-1	0	0	0	-641	28.08	0	0	0.00	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0.00	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	42.3	42.3
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	cfm/ft²	0.22	0.22
Exhaust Heat	0	-11	0	0	0	0	0	0.00	0	0	0.00	cfm/ton	534.88	
Sup. Fan Heat	0	51	2	0	0	0	0	0.00	0	0	0.00	ft²/ton	2,385.26	
Ret. Fan Heat	0	26	1	0	0	0	-677	29.63	0	0	0.00	Btu/hr-ft²	5.03	-6.41
Duct Heat Pkup	0	0	0	0	0	0	18	-0.78	0	0	0.00	No. People	1	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	2,495	-159	100.00	2,422	100.00	-966	-2,284	100.00	-966	-2,284	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.1	0.7	0.6	29	78.4	58.5	43.6	53.4	48.3	43.6	Floor	129		Main Htg	-0.7	29	53.4	75.0
Aux Clg	0.1	1.7	1.7	382	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-2.6	382	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.2	29	49.5	53.4
											ExFlr	0		Reheat	-0.9	29	53.4	75.0
Total	0.2	2.4									Roof	129	0	Humidif	0.0	0	0.0	0.0
											Wall	123	36	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.4			

Zone Checksums

By MFIA Inc.

Zone - 026

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17			Mo/Hr: 8 / 19		Mo/Hr: Heating Design			Mo/Hr: Heating Design			Cooling	Heating			
Outside Air:		OADB/WB/HR: 92 / 64 / 49			OADB: 84		OADB: 22			OADB: 22			SADB	59.9	75.0		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak	Coil Peak	Percent	Space Sens	Tot Sens	Of Total	Return	75.8	65.8			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Ret/OA	75.8	70.0			
Envelope Loads					Envelope Loads												
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	80	80	6	0	0	-91	7.93	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	12	12			
Wall Cond	212	18	230	18	306	33	-423	40.22	-423	-462	40.22	Terminal	12	12			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	12	12			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	7	7			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	7	7			
Sub Total ==>	212	98	310	25	306	33	-423	48.15	-423	-553	48.15	Infil	0	0			
Internal Loads					Internal Loads												
Lights	174	0	174	14	146	16	0	0.00	0	0	0.00	MinStop/Rh	12	12			
People	215	0	215	17	79	9	0	0.00	0	0	0.00	Return	12	12			
Misc	232	0	232	19	186	20	0	0.00	0	0	0.00	Exhaust	7	7			
Sub Total ==>	622	0	622	50	411	44	0	0.00	0	0	0.00	Rm Exh	0	0			
Ceiling Load	79	-79	0	0	79	9	-97	0.00	-97	0	0.00	Auxiliary	245	245			
Ventilation Load	0	0	160	13	0	0	0	31.69	0	-364	31.69	Leakage Dwn	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	Leakage Ups	0	0			
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	ENGINEERING CKS					
Ov/Undr Sizing	128		128	10	128	14	0	0.00	0	0	0.00	% OA	57.0	57.0			
Exhaust Heat		-6	-6	0			0	0.00	0	0	0.00	cfm/ft²	0.17	0.17			
Sup. Fan Heat			21	2			0	0.00	0	0	0.00	cfm/ton	280.20				
Ret. Fan Heat		11	11	1			-264	22.97	0	0	0.00	ft²/ton	1,681.79				
Duct Heat Pkup		0	0	0			32	-2.81	0	0	0.00	Btu/hr-ft²	7.14	-7.17			
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00	No. People	1				
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00						
Grand Total ==>	1,041	24	1,247	100.00	923	100.00	-520	100.00	-520	-1,148	100.00						

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR				Leave DB/WB/HR			Gross Total	Glass	Capacity	Coil Airflow	Ent	Lvg			
ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb		ft² (%)	MBh	cfm	°F	°F				
Main Clg	0.0	0.5	12	84.8	61.2	45.6	55.0	45.0	29.8	Floor	73	-0.3	12	55.0	75.0			
Aux Clg	0.1	0.7	245	75.0	63.4	71.8	72.3	62.5	71.8	Part	0	-1.1	245	70.0	74.1			
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	-0.3	12	42.4	58.3			
										ExFlr	0	-0.3	12	55.0	75.0			
Total	0.1	1.2								Roof	73	0.0	0	0.0	0.0			
										Wall	163	0.0	0	0.0	0.0			
										Ext Door	0	0	0	0	0.0			
										Total	-1.6							

Zone Checksums

By MFIA Inc.

Zone - 027

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	372	3	0	0	0	-428	4.16	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	375	0	3	332	3	0	0	0.00	0	0	0.00			
Glass/Door Cond	221	0	2	205	2	-578	-578	5.61	-578	-578	13.44			
Wall Cond	161	18	1	172	2	-338	-378	3.68	-338	-378	13.44			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	757	390	1,147	9	7	-916	-1,383	13.44	-916	-1,383	13.44			
Internal Loads				Internal Loads				Internal Loads						
Lights	788	0	788	6	833	8	0	0.00	0	0	0.00			
People	6,076	0	6,076	46	3,831	36	0	0.00	0	0	0.00			
Misc	1,045	0	1,045	8	1,104	10	0	0.00	0	0	0.00			
Sub Total ==>	7,909	0	7,909	60	5,767	54	0	0.00	0	0	0.00			
Ceiling Load	371	-371	0	0	370	3	-457	0.00	-457	0	0.00			
Ventilation Load	0	0	-122	-1	0	0	0	50.24	0	-5,169	50.24			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0.00			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ov/Undr Sizing	3,826	0	3,826	29	3,826	36	0	0.00	0	0	0.00			
Exhaust Heat	0	-88	-88	-1	0	0	0	0.00	0	0	0.00			
Sup. Fan Heat	0	0	305	2	0	0	0	0.00	0	0	0.00			
Ret. Fan Heat	0	154	154	1	0	0	-3,747	36.42	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	10	-0.10	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	12,864	85	13,132	100.00	10,673	100.00	-1,373	100.00	-1,373	-10,289	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	173	173
Terminal	173	173
Main Fan	173	173
Sec Fan	0	0
Nom Vent	99	99
AHU Vent	99	99
Infil	0	0
MinStop/Rh	173	173
Return	173	173
Exhaust	99	99
Rm Exh	0	0
Auxiliary	2,239	2,239
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	543.72	
ft²/ton	1,078.83	
Btu/hr-ft²	11.12	-30.61
No. People	16	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	3.8	3.5	173	86.1	65.9	66.3	55.0	54.9	66.3
Aux Clg	0.9	10.3	10.3	2,239	75.0	63.4	71.8	70.7	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.2	14.1								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	344		
Part	0		
Int Door	0		
ExFlr	0		
Roof	344	0	0
Wall	169	36	21
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-3.8	173	55.0	75.0
Aux Htg	-15.5	2,239	70.0	76.4
Preheat	-6.8	173	42.4	71.4
Reheat	-4.7	173	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-26.0			

Zone Checksums

By MFIA Inc.

Zone - 028

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	374	3	0	0	0	-430	4.15	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	375	0	3	332	3	0	0	0.00	0	0	0.00			
Glass/Door Cond	221	0	2	205	2	-578	-578	5.58	-578	-578	5.58			
Wall Cond	166	18	1	178	2	-349	-391	3.77	-349	-391	3.77			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	763	392	1,155	9	715	7	-927	13.50	-927	-1,398	13.50			
Internal Loads				Internal Loads				Internal Loads						
Lights	793	0	793	6	838	8	0	0.00	0	0	0.00			
People	6,111	0	6,111	46	3,853	36	0	0.00	0	0	0.00			
Misc	1,051	0	1,051	8	1,110	10	0	0.00	0	0	0.00			
Sub Total ==>	7,955	0	7,955	60	5,801	54	0	0.00	0	0	0.00			
Ceiling Load	373	-373	0	0	372	3	-460	0.00	-460	0	0.00			
Ventilation Load	0	0	-123	-1	0	0	0	50.21	0	-5,199	50.21			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ov/Undr Sizing	3,847	0	3,847	29	3,847	36	0	0.00	0	0	0.00			
Exhaust Heat	0	-88	-88	-1	0	0	0	0.00	0	0	0.00			
Sup. Fan Heat	0	0	307	2	0	0	0	0.00	0	0	0.00			
Ret. Fan Heat	0	155	155	1	0	0	-3,769	36.40	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	11	-0.11	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	12,938	86	13,208	100.00	10,735	100.00	-1,387	100.00	-1,387	-10,355	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	174	174
Terminal	174	174
Main Fan	174	174
Sec Fan	0	0
Nom Vent	99	99
AHU Vent	99	99
Infil	0	0
MinStop/Rh	174	174
Return	174	174
Exhaust	99	99
Rm Exh	0	0
Auxiliary	2,250	2,250
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	543.96	
ft²/ton	1,079.32	
Btu/hr-ft²	11.12	-30.61
No. People	16	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	3.9	3.6	174	86.1	65.9	66.3	55.0	54.9	66.3
Aux Clg	0.9	10.4	10.4	2,250	75.0	63.4	71.8	70.7	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.2	14.2								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	346		
Part	0		
Int Door	0		
ExFlr	0		
Roof	346	0	0
Wall	174	36	21
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-3.8	174	55.0	75.0
Aux Htg	-15.6	2,250	70.0	76.4
Preheat	-6.8	174	42.4	71.4
Reheat	-4.7	174	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-26.2			

Zone Checksums

By MFIA Inc.

Zone - 029

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 82		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	241	241	3	0	0	-277	4.03	0	-277	4.03	Fn Frict	1.1	0.0
Glass Solar	375	0	375	4	1,009	15	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	221	0	221	3	43	1	-578	8.40	-578	-578	8.40	Diffuser	112	112
Wall Cond	105	13	118	1	25	0	-223	3.68	-223	-253	3.68	Terminal	112	112
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	112	112
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	64	64
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	64	64
Sub Total ==>	702	254	956	11	1,077	16	-801	16.10	-801	-1,108	16.10	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	112	112
Lights	511	0	511	6	540	8	0	0.00	0	0	0.00	Return	112	112
People	3,939	0	3,939	45	2,483	36	0	0.00	0	0	0.00	Exhaust	64	64
Misc	677	0	677	8	715	10	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	5,127	0	5,127	59	3,739	54	0	0.00	0	0	0.00	Auxiliary	1,487	1,487
Ceiling Load	241	-241	0	0	240	3	-297	0.00	-297	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	482	6	0	0	0	48.72	0	-3,351	48.72	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	57.0	57.0
Ov/Undr Sizing	1,863	0	1,863	21	1,863	27	0	0.00	0	0	0.00	cfm/ft²	0.50	0.50
Exhaust Heat	0	-57	-57	-1	0	0	0	0.00	0	0	0.00	cfm/ton	676.58	
Sup. Fan Heat	0	198	198	2	0	0	0	0.00	0	0	0.00	ft²/ton	1,342.45	
Ret. Fan Heat	0	100	100	1	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	8.94	-30.61
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	10	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	7,933	56	8,669	100.00	6,919	100.00	-1,097	100.00	-1,097	-6,877	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	2.0	1.2	112	86.1	64.8	60.7	55.0	53.5	60.7	Floor	223		Main Htg	-2.4	112	55.0	75.0	
Aux Clg	0.6	6.7	6.7	1,487	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-10.0	1,487	70.0	76.2	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-4.4	112	42.4	71.4	
											ExFlr	0		Reheat	-3.0	112	55.0	75.0	
Total	0.7	8.7									Roof	223	0	0	Humidif	0.0	0	0.0	0.0
											Wall	125	36	29	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-16.9			

Zone Checksums

By MFIA Inc.

Zone - 030

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 17		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 92 / 64 / 46		OADB: 87		OADB: 22						SADB	60.7	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.2	0.0
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0
Roof Cond	0	259	3	0	0	0	-282	3.87	0	0	0.00	AIRFLOWS		
Glass Solar	2,068	0	2,068	20	2,320	27	0	0.00	0	0	0.00	Diffuser	114	114
Glass/Door Cond	210	0	210	2	150	2	-578	7.94	-578	-578	7.94	Terminal	114	114
Wall Cond	264	27	291	3	243	3	-518	7.90	-518	-518	7.90	Main Fan	114	114
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	65	65
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	65	65
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil	0	0
Sub Total ==>	2,543	287	2,829	28	2,713	32	-1,096	19.71	-1,096	-1,434	19.71	MinStop/Rh	114	114
Internal Loads				Internal Loads				Internal Loads				Return	114	114
Lights	541	0	541	5	541	6	0	0.00	0	0	0.00	Exhaust	65	65
People	4,036	0	4,036	39	2,438	29	0	0.00	0	0	0.00	Rm Exh	0	0
Misc	721	0	721	7	721	8	0	0.00	0	0	0.00	Auxiliary	1,510	1,510
Sub Total ==>	5,298	0	5,298	52	3,700	43	0	0.00	0	0	0.00	Leakage Dwn	0	0
Ceiling Load				Ceiling Load				Ceiling Load				Leakage Ups	0	0
Ventilation Load	0	0	-39	0	0	0	-302	0.00	0	0	0.00	ENGINEERING CKS		
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	-3,409	46.84	% OA	57.0	57.0
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	cfm/ft²	0.50	0.50
Ov/Undr Sizing	1,897		1,897	19	1,897	22	0	0.00	0	0	0.00	cfm/ton	398.99	
Exhaust Heat		-58	-58	-1			0	0.00	0	0	0.00	ft²/ton	791.66	
Sup. Fan Heat			201	2			0	0.00	0	0	0.00	Btu/hr-ft²	15.16	-22.26
Ret. Fan Heat		102	102	1			0	0.00	0	0	0.00	No. People	10	
Duct Heat Pkup		0	0	0			0	0.00	0	-2,471	33.96			
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	37	-0.51			
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00			
Grand Total ==>	9,982	86	10,230	100.00	8,553	100.00	-1,397	100.00	-1,397	-7,277	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION							
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F				
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb										
Main Clg	0.3	3.4	3.1	114	84.9	63.8	57.6	55.0	52.7	57.6	Floor	227				Main Htg	-2.5	114	55.0	75.0
Aux Clg	0.6	6.8	6.8	1,510	75.0	63.4	71.8	70.8	62.0	71.8	Part	0				Aux Htg	-10.2	1,510	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0				Preheat	-2.6	114	42.4	59.1
											ExFlr	0				Reheat	-3.1	114	55.0	75.0
Total	0.9	10.2									Roof	227	0	0		Humidif	0.0	0	0.0	0.0
											Wall	239	36	15		Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0		Total	-15.3			

Zone Checksums

By MFIA Inc.

Zone - 033

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	61.6	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.3	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	250	2	0	0	0	-329	4.06	0	-329	4.06	Fn Frict	1.1	0.0
Glass Solar	2,110	0	18	2,310	23	0	0	0.00	0	0	0.00			
Glass/Door Cond	226	0	2	149	2	0	-578	7.13	-578	-578	7.13			
Wall Cond	80	8	1	122	1	0	-307	4.25	-307	-344	4.25			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	2,416	257	2,674	22	2,581	26	-885	15.44	-885	-1,251	15.44			
Internal Loads				Internal Loads				Internal Loads						
Lights	607	0	607	5	642	7	0	0.00	0	0	0.00	Diffuser	134	134
People	4,680	0	4,680	39	2,951	30	0	0.00	0	0	0.00	Terminal	134	134
Misc	805	0	805	7	850	9	0	0.00	0	0	0.00	Main Fan	134	134
Sub Total ==>	6,093	0	6,093	51	4,443	45	0	0.00	0	0	0.00	Sec Fan	0	0
Ceiling Load	286	-286	0	0	285	3	-352	0.00	-352	0	0.00	Nom Vent	76	76
Ventilation Load	0	0	320	3	0	0	0	49.12	0	-3,982	49.12	AHU Vent	76	76
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	Infil	0	0
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	MinStop/Rh	134	134
Ov/Undr Sizing	2,559		2,559	21	2,559	26	0	0.00	0	0	0.00	Return	134	134
Exhaust Heat		-68	-68	-1			0	0.00	0	0	0.00	Exhaust	76	76
Sup. Fan Heat			235	2			0	0.00	0	0	0.00	Rm Exh	0	0
Ret. Fan Heat		119	119	1			0	0.00	0	0	0.00	Auxiliary	1,732	1,732
Duct Heat Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00			
Grand Total ==>	11,354	22	11,932	100.00	9,868	100.00	-1,237	100.00	-1,237	-8,105	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	134	134
Terminal	134	134
Main Fan	134	134
Sec Fan	0	0
Nom Vent	76	76
AHU Vent	76	76
Infil	0	0
MinStop/Rh	134	134
Return	134	134
Exhaust	76	76
Rm Exh	0	0
Auxiliary	1,732	1,732
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	400.82	
ft²/ton	795.30	
Btu/hr-ft²	15.09	-22.84
No. People	12	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	4.0	3.4	134	86.3	64.6	59.5	55.0	53.2	59.5
Aux Clg	0.7	7.9	7.9	1,732	75.0	63.4	71.8	70.8	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.0	11.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	265		
Part	0		
Int Door	0		
ExFlr	0		
Roof	265	0	0
Wall	157	36	23
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	-2.9	134	55.0	75.0
Aux Htg	-11.9	1,732	70.0	76.4
Preheat	-3.2	134	42.4	60.0
Reheat	-3.6	134	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-18.0			

Zone Checksums

By MFIA Inc.

Zone - 034

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 8 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 92		OADB: 22			SADB			Ra Plenum		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA		
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD		
							Btu/h	Btu/h		Fn Frict					
Envelope Loads					Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0	0.00						
Roof Cond	0	411	411	2	0	0	0	-543	4.18						
Glass Solar	2,110	0	2,110	11	2,116	13	0	0	0.00						
Glass/Door Cond	226	0	226	1	210	1	-578	-578	4.45						
Wall Cond	129	11	140	1	210	1	-495	-550	4.24						
Partition/Door	0	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0	0.00						
Sub Total ==>	2,466	423	2,888	15	2,537	16	-1,073	-1,671	12.87						
Internal Loads					Internal Loads										
Lights	1,001	0	1,001	5	1,058	7	0	0	0.00						
People	7,718	0	7,718	41	4,867	31	0	0	0.00						
Misc	1,327	0	1,327	7	1,402	9	0	0	0.00						
Sub Total ==>	10,047	0	10,047	53	7,327	46	0	0	0.00						
Ceiling Load	472	-472	0	0	470	3	-581	0	0.00						
Ventilation Load	0	0	-100	-1	0	0	0	-6,566	50.59						
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0.00						
Ov/Undr Sizing	5,484	0	5,484	29	5,484	35	0	0	0.00						
Exhaust Heat	0	-112	-112	-1	0	0	0	0	0.00						
Sup. Fan Heat	0	388	388	2	0	0	0	0	0.00						
Ret. Fan Heat	0	196	196	1	0	0	0	-4,760	36.67						
Duct Heat Pkup	0	0	0	0	0	0	0	17	-0.13						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00						
Grand Total ==>	18,469	36	18,792	100.00	15,818	100.00	-1,654	-12,980	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	220	220
Terminal	220	220
Main Fan	220	220
Sec Fan	0	0
Nom Vent	126	126
AHU Vent	126	126
Infil	0	0
MinStop/Rh	220	220
Return	220	220
Exhaust	126	126
Rm Exh	0	0
Auxiliary	2,825	2,825
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	462.93	
ft²/ton	918.53	
Btu/hr-ft²	13.06	-24.15
No. People	20	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.5	5.7	5.3	220	86.3	65.3	62.7	55.0	54.0	62.7
Aux Clg	1.1	13.1	13.1	2,825	75.0	63.4	71.8	70.7	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.6	18.8								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	437		
Part	0		
Int Door	0		
ExFlr	0		
Roof	437	0	0
Wall	230	36	16
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	-19.7	2,825	70.0	76.4
Preheat	-5.8	220	42.4	61.9
Reheat	-6.0	220	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-30.2			

Zone Checksums

By MFIA Inc.

Zone - 035

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 17			Mo/Hr: 7 / 17		Mo/Hr: Heating Design											
Outside Air:		OADB/WB/HR: 92 / 64 / 49			OADB: 92		OADB: 22						Cooling	Heating				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	SADB	Ra Plenum	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)							
Envelope Loads					Envelope Loads										AIRFLOWS			
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	37	37				
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Terminal	37	37				
Roof Cond	0	458	458	13	0	0	-418	16.31	0	0	0.00	Main Fan	37	37				
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0				
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	21	21				
Wall Cond	70	6	76	2	70	2	-147	6.26	0	0	0.00	AHU Vent	21	21				
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil	0	0				
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	MinStop/Rh	37	37				
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	37	37				
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	Exhaust	21	21				
Sub Total ==>	70	464	534	15	70	2	-147	22.57	0	0	0.00	Rm Exh	0	0				
Internal Loads					Internal Loads										ENGINEERING CKS			
Lights	814	0	814	22	814	27	0	0.00	0	0	0.00	% OA	57.0	57.0				
People	543	0	543	15	299	10	0	0.00	0	0	0.00	cfm/ft²	0.11	0.11				
Misc	1,079	0	1,079	30	1,079	36	0	0.00	0	0	0.00	cfm/ton	312.59					
Sub Total ==>	2,436	0	2,436	67	2,192	73	0	0.00	0	0	0.00	ft²/ton	2,839.13					
Ceiling Load	363	-363	0	0	362	12	-448	0.00	0	0	0.00	Btu/hr-ft²	4.23	-4.20				
Ventilation Load	0	0	197	5	0	0	0	43.06	0	-1,105	43.06	No. People	1					
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0							
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00							
Ov/Undr Sizing	378		378	10	378	13	0	0.00	0	0	0.00							
Exhaust Heat		-19	-19	-1			0	0.00	0	0	0.00							
Sup. Fan Heat			65	2			0	0.00	0	0	0.00							
Ret. Fan Heat		33	33	1			-866	33.76	0	0	0.00							
Duct Heat Pkup		0	0	0			-16	0.62	0	0	0.00							
Underflr Sup Ht Pkup			0	0			0	0.00	0	0	0.00							
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00							
Grand Total ==>	3,247	115	3,623	100.00	3,002	100.00	-595	100.00	-2,565	100.00								

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR		Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent	Lvg			
ton	MBh	cfm	°F	°F	°F	°F		ft²	(%)	MBh	cfm	°F	°F				
Main Clg	0.1	1.4	37	84.8	63.1	54.4	53.4	49.4	47.6	Floor	337						
Aux Clg	0.2	2.2	1,695	75.0	63.4	71.8	73.8	63.0	71.8	Part	0						
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0						
										ExFlr	0						
Total	0.3	3.6								Roof	337	0	0				
										Wall	57	0	0				
										Ext Door	0	0	0				

Zone Checksums

By MFIA Inc.

Zone - 036

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 17		Mo/Hr: 8 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 87 / 60 / 38		OADB: 87		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	81.4	45.4
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	404	2	0	0	Roof Cond	0	4.05	0	-509	4.05	Fn Frict	1.1	0.0
Glass Solar	3,855	0	3,855	20	3,812	Glass Solar	0	0.00	0	0	0.00			
Glass/Door Cond	446	0	446	2	431	Glass/Door Cond	-1,444	11.49	-1,444	-1,444	11.49			
Wall Cond	212	26	238	1	221	Wall Cond	-519	4.70	-519	-590	4.70			
Partition/Door	0	0	0	0	0	Partition/Door	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	Floor	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	Infiltration	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	4,514	430	4,944	26	4,463	<i>Sub Total ==></i>	-1,963	20.24	-2,543	-2,543	20.24			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	950	0	950	5	988	Lights	0	0.00	0	0	0.00	Diffuser	201	201
People	5,236	0	5,236	27	3,286	People	0	0.00	0	0	0.00	Terminal	201	201
Misc	1,262	0	1,262	7	1,311	Misc	0	0.00	0	0	0.00	Main Fan	201	201
<i>Sub Total ==></i>	7,449	0	7,449	39	5,585	<i>Sub Total ==></i>	0	0.00	0	0	0.00	Sec Fan	0	0
Ceiling Load	442	-442	0	0	441	Ceiling Load	-545	0.00	0	0	0.00	Nom Vent	102	102
Ventilation Load	0	0	490	3	0	Ventilation Load	0	42.61	-5,354	-5,354	42.61	AHU Vent	102	102
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0	Infil	0	0
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	0	0.00	0	0	0.00	MinStop/Rh	201	201
Ov/Undr Sizing	5,910		5,910	31	5,910	Exhaust Heat	0	0.00	0	0	0.00	Return	201	201
Exhaust Heat		-91	-91	0		OA Preheat Diff.	0	0.00	0	0	0.00	Exhaust	102	102
Sup. Fan Heat			354	2		RA Preheat Diff.	0	0.00	0	0	0.00	Rm Exh	0	0
Ret. Fan Heat		179	179	1		Additional Reheat		37.42	-4,702	-4,702	37.42	Auxiliary	2,604	2,604
Duct Heat Pkup		0	0	0		System Plenum Heat		-0.28	35	35	-0.28	Leakage Dwn	0	0
Underflr Sup Ht Pkup		0	0	0		Underflr Sup Ht Pkup		0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage		0	0	0		Supply Air Leakage		0.00	0	0	0.00			
Grand Total ==>	18,315	76	19,235	100.00	16,399	Grand Total ==>	-2,508	100.00	-12,565	-12,565	100.00	ENGINEERING CKS		
												% OA	50.9	50.9
												cfm/ft²	0.49	0.49
												cfm/ton	331.42	
												ft²/ton	675.18	
												Btu/hr-ft²	17.77	-16.78
												No. People	13	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	0.6	7.3	6.6	201	84.0	63.6	58.3	53.4	51.0	53.5	Floor	410					
Aux Clg	1.0	12.0	12.0	2,604	75.0	63.4	71.8	70.8	62.0	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	1.6	19.2									ExFlr	0					
											Roof	410	0	0			
											Wall	298	89	30			
											Ext Door	0	0	0			
											Total				-24.8		

Zone Checksums

By MFIA Inc.

Zone - 037

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 16		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 65 / 49		OADB: 87		OADB: 22						SADB	62.2	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads				Envelope Loads				Ret/OA	86.3	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	431	2	0	0	0	-569	4.13	0	-569	4.13	Fn Frict	1.1	0.0
Glass Solar	3,166	0	15	3,464	20	0	0	0.00	0	0	0.00			
Glass/Door Cond	339	0	2	224	1	-866	-866	6.29	-866	-866	6.29			
Wall Cond	113	11	1	172	1	-434	-487	3.54	-434	-487	3.54			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	3,618	442	4,060	20	3,860	23	-1,300	13.96	-1,300	-1,923	13.96			
Internal Loads				Internal Loads				Internal Loads				AIRFLOWS		
Lights	1,049	0	1,049	5	1,109	7	0	0.00	0	0	0.00	Diffuser	231	231
People	8,089	0	8,089	39	5,100	30	0	0.00	0	0	0.00	Terminal	231	231
Misc	1,391	0	1,391	7	1,469	9	0	0.00	0	0	0.00	Main Fan	231	231
Sub Total ==>	10,530	0	10,530	51	7,679	45	0	0.00	0	0	0.00	Sec Fan	0	0
Ceiling Load	494	-494	0	0	493	3	-609	0.00	-609	0	0.00	Nom Vent	132	132
Ventilation Load	0	0	551	3	0	0	0	49.94	0	-6,882	49.94	AHU Vent	132	132
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	Infil	0	0
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	MinStop/Rh	231	231
Ov/Undr Sizing	4,877	0	4,877	24	4,877	29	0	0.00	0	0	0.00	Return	231	231
Exhaust Heat	0	-117	-117	-1	0	0	0	0.00	0	0	0.00	Exhaust	132	132
Sup. Fan Heat	0	406	406	2	0	0	0	0.00	0	0	0.00	Rm Exh	0	0
Ret. Fan Heat	0	205	205	1	0	0	0	0.00	0	0	0.00	Auxiliary	2,998	2,998
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00	ENGINEERING CKS		
Grand Total ==>	19,519	36	20,512	100.00	16,908	100.00	-1,909	100.00	-1,909	-13,780	100.00	% OA	57.0	57.0
												cfm/ft²	0.50	0.50
												cfm/ton	407.27	
												ft²/ton	808.09	
												Btu/hr-ft²	14.85	-23.24
												No. People	21	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.6	6.8	5.7	231	86.3	64.6	59.6	55.0	53.2	59.6	Floor	458		Main Htg	-5.0	231	55.0	75.0
Aux Clg	1.1	13.7	13.7	2,998	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-20.6	2,998	70.0	76.4
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-5.7	231	42.4	60.6
											ExFlr	0		Reheat	-6.2	231	55.0	75.0
Total	1.7	20.5									Roof	458	0	Humidif	0.0	0	0.0	0.0
											Wall	226	54	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-31.3			

Zone Checksums

By MFIA Inc.

Zone - 039

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 8 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 92		OADB: 22			SADB			Ra Plenum		
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict	
	Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens		75.8	86.3	0.2	0.4	1.1	
										70.0	42.4	0.0	0.0	0.0	
Envelope Loads					Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0	0.00						
Roof Cond	0	357	357	2	0	0	0	-471	4.19						
Glass Solar	2,110	0	2,110	13	2,116	15	0	0	0.00						
Glass/Door Cond	226	0	226	1	210	2	-578	-578	5.13						
Wall Cond	91	9	100	1	148	1	-349	-391	3.47						
Partition/Door	0	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0	0.00						
Sub Total ==>	2,428	365	2,793	17	2,475	18	-927	-1,439	12.79						
Internal Loads					Internal Loads										
Lights	868	0	868	5	918	7	0	0	0.00						
People	6,694	0	6,694	41	4,221	31	0	0	0.00						
Misc	1,151	0	1,151	7	1,216	9	0	0	0.00						
Sub Total ==>	8,714	0	8,714	53	6,354	46	0	0	0.00						
Ceiling Load	409	-409	0	0	408	3	-504	0	0.00						
Ventilation Load	0	0	-86	-1	0	0	0	-5,695	50.60						
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0.00						
Ov/Undr Sizing	4,555	0	4,555	28	4,555	33	0	0	0.00						
Exhaust Heat	0	-97	-97	-1	0	0	0	0	0.00						
Sup. Fan Heat	0	0	336	2	0	0	0	0	0.00						
Ret. Fan Heat	0	170	170	1	0	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0	0.00						
Grand Total ==>	16,105	30	16,385	100.00	13,791	100.00	-1,431	-11,254	100.00						

AIRFLOWS		
	Cooling	Heating
Diffuser	191	191
Terminal	191	191
Main Fan	191	191
Sec Fan	0	0
Nom Vent	109	109
AHU Vent	109	109
Infil	0	0
MinStop/Rh	191	191
Return	191	191
Exhaust	109	109
Rm Exh	0	0
Auxiliary	2,491	2,491
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	454.93	
ft²/ton	902.65	
Btu/hr-ft²	13.29	-23.91
No. People	17	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.4	5.0	4.7	191	86.3	65.3	62.7	55.0	54.0	62.7
Aux Clg	1.0	11.4	11.4	2,491	75.0	63.4	71.8	70.8	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.4	16.4								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	379		
Part	0		
Int Door	0		
ExFlr	0		
Roof	379	0	0
Wall	174	36	21
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	-17.1	2,491	70.0	76.3
Preheat	-4.9	191	42.4	61.5
Reheat	-5.2	191	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-26.1			

Zone Checksums

By MFIA Inc.

Zone - 040

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES						
Peaked at Time:		Mo/Hr: 8 / 17			Mo/Hr: 9 / 17			Mo/Hr: Heating Design			Cooling			Heating			
Outside Air:		OADB/WB/HR: 92 / 64 / 46			OADB: 87			OADB: 22			SADB			Ra Plenum			
											Return			Ret/OA			
											Fn MtrTD			Fn BldTD			
											Fn Frict						
Space Sens. + Lat.		Plenum Sens. + Lat		Net Total		Percent Of Total (%)		Space Sensible		Percent Of Total (%)		Space Peak		Coil Peak		Percent Of Total (%)	
Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h	
Envelope Loads																	
Skylite Solar		0		0		0		0		0		Skylite Solar		0		0.00	
Skylite Cond		0		0		0		0		0		Skylite Cond		0		0.00	
Roof Cond		0		362		6		0		0		Roof Cond		-382		8.24	
Glass Solar		2,068		0		35		2,320		45		Glass Solar		0		0.00	
Glass/Door Cond		210		0		4		150		3		Glass/Door Cond		-578		12.46	
Wall Cond		168		16		3		130		3		Wall Cond		-520		12.45	
Partition/Door		0		0		0		0		0		Partition/Door		0		0.00	
Floor		0		0		0		0		0		Floor		0		0.00	
Adjacent Floor		0		0		0		0		0		Adjacent Floor		0		0.00	
Infiltration		0		0		0		0		0		Infiltration		0		0.00	
Sub Total ==>		2,446		378		47		2,600		50		Sub Total ==>		-1,098		33.15	
Internal Loads																	
Lights		733		0		12		733		14		Lights		0		0.00	
People		874		0		15		479		9		People		0		0.00	
Misc		977		0		16		977		19		Misc		0		0.00	
Sub Total ==>		2,585		0		43		2,189		42		Sub Total ==>		0		0.00	
Ceiling Load		331		-331		0		330		6		Ceiling Load		-408		0.00	
Ventilation Load		0		0		6		0		0		Ventilation Load		0		35.81	
Adj Air Trans Heat		0		0		0		0		0		Adj Air Trans Heat		0		0	
Dehumid. Ov Sizing				0		0				0		Ov/Undr Sizing		0		0.00	
Ov/Undr Sizing		46		46		1		46		1		Exhaust Heat		0		0.00	
Exhaust Heat				-28		0				0		OA Preheat Diff.		0		0.00	
Sup. Fan Heat				111		2				0		RA Preheat Diff.		0		0.00	
Ret. Fan Heat				56		1				-1,469		Additional Reheat		31.69			
Duct Heat Pkup				0		0				30		System Plenum Heat		-0.65			
Underflr Sup Ht Pkup				0		0				0		Underflr Sup Ht Pkup		0		0.00	
Supply Air Leakage				0		0				0		Supply Air Leakage		0		0.00	
Grand Total ==>		5,408		74		100.00		5,165		100.00		Grand Total ==>		-1,506		-4,634 100.00	

AIRFLOWS		
	Cooling	Heating
Diffuser	63	63
Terminal	63	63
Main Fan	63	63
Sec Fan	0	0
Nom Vent	32	32
AHU Vent	32	32
Infil	0	0
MinStop/Rh	63	63
Return	63	63
Exhaust	32	32
Rm Exh	0	0
Auxiliary	1,007	1,007
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	50.5	50.5
cfm/ft²	0.20	0.20
cfm/ton	337.75	
ft²/ton	1,650.27	
Btu/hr-ft²	7.27	-6.94
No. People	2	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.2	2.2	2.0	63	83.9	62.0	50.6	53.4	49.1	46.6
Aux Clg	0.3	3.7	3.7	1,007	75.0	63.4	71.8	71.6	62.3	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.5	6.0								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	307		
Part	0		
Int Door	0		
ExFlr	0		
Roof	307	0	0
Wall	239	36	15
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent Lvg	
			°F	°F
Main Htg	-1.5	63	53.4	75.0
Aux Htg	-5.6	1,007	70.0	75.2
Preheat	-0.7	63	45.6	53.4
Reheat	-1.8	63	53.4	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-7.7			

Zone Checksums

By MFIA Inc.

Zone - 041

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 92		OADB: 22		OADB: 22				SADB	59.7	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	84.8	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	476	476	9	0	0	-460	9.58	0	-460	9.58	Fn Frict	1.1	0.0
Glass Solar	352	0	352	6	352	8	0	0.00	0	0	0.00			
Glass/Door Cond	207	0	207	4	207	4	-579	12.07	-579	-579	12.07			
Wall Cond	235	23	258	5	235	5	-558	12.89	-558	-619	12.89			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	794	499	1,293	23	794	17	-1,137	34.54	-1,137	-1,658	34.54			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	882	0	882	16	882	19	0	0.00	0	0	0.00	Cooling	Heating	
People	1,142	0	1,142	21	624	13	0	0.00	0	0	0.00	Diffuser	62	62
Misc	1,176	0	1,176	21	1,176	25	0	0.00	0	0	0.00	Terminal	62	62
Sub Total ==>	3,199	0	3,199	57	2,682	57	0	0.00	0	0	0.00	Main Fan	62	62
Ceiling Load	399	-399	0	0	398	9	-492	0.00	-492	0	0.00	Sec Fan	0	0
Ventilation Load	0	0	138	2	0	0	0	38.29	0	-1,838	38.29	Nom Vent	35	35
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	35	35
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	Infil	0	0
Ov/Undr Sizing	805		805	14	805	17	0	0.00	0	0	0.00	MinStop/Rh	62	62
Exhaust Heat		-31	-31	-1			0	0.00	0	0	0.00	Return	62	62
Sup. Fan Heat			108	2			0	0.00	0	0	0.00	Exhaust	35	35
Ret. Fan Heat		55	55	1			0	0.00	0	0	0.00	Rm Exh	0	0
Duct Heat Pkup		0	0	0			0	0.00	0	0	0.00	Auxiliary	807	807
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Grand Total ==>	5,198	123	5,567	100.00	4,679	100.00	-1,629	100.00	-1,629	-4,800	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.2	1.9	1.9	62	84.8	63.8	57.8	55.0	52.8	57.8	Floor	370		Main Htg	-1.3	62	55.0	75.0
Aux Clg	0.3	3.7	3.7	807	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-5.5	807	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-1.3	62	42.4	58.1
Total	0.5	5.6									ExFlr	0		Reheat	-1.7	62	55.0	75.0
											Roof	370	0	Humidif	0.0	0	0.0	0.0
											Wall	254	36	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-8.1			

Zone Checksums

By MFIA Inc.

Zone - 042

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 21		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 76		OADB: 22		OADB: 22				SADB	60.7	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	84.8	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	73	73	6	0	0	-90	7.45	0	-90	7.45	Fn Frict	1.1	0.0
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00			
Wall Cond	117	8	126	11	313	35	-493	44.39	-493	-539	44.39			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	117	81	199	17	313	35	-493	51.84	-493	-629	51.84			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	174	0	174	15	130	14	0	0.00	0	0	0.00	Cooling	Heating	
People	216	0	216	18	66	7	0	0.00	0	0	0.00	Diffuser	12	12
Misc	231	0	231	19	162	18	0	0.00	0	0	0.00	Terminal	12	12
<i>Sub Total ==></i>	621	0	621	52	358	39	0	0.00	0	0	0.00	Main Fan	12	12
Ceiling Load	78	-78	0	0	78	9	-97	0.00	-97	0	0.00	Sec Fan	0	0
Ventilation Load	0	0	188	16	0	0	0	29.77	0	-361	29.77	Nom Vent	7	7
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	AHU Vent	7	7
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	Infil	0	0
Ov/Undr Sizing	157		157	13	157	17	0	0.00	0	0	0.00	MinStop/Rh	12	12
Exhaust Heat		-6	-6	-1			0	0.00	0	0	0.00	Return	12	12
Sup. Fan Heat			21	2			0	0.00	0	0	0.00	Exhaust	7	7
Ret. Fan Heat			11	1			0	0.00	0	0	0.00	Rm Exh	0	0
Duct Heat Pkup			0	0			0	0.00	0	0	0.00	Auxiliary	245	245
Underflr Sup Ht Pkup			0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Supply Air Leakage			0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Grand Total ==>	974	8	1,191	100.00	907	100.00	-590	100.00	-590	-1,213	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft² (%)	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb							
Main Clg	0.0	0.5	0.3	12	84.8	60.6	43.1	55.0	45.9	32.9	Floor	73					
Aux Clg	0.1	0.7	0.7	245	75.0	63.4	71.8	72.3	62.5	71.8	Part	0					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0					
Total	0.1	1.2									ExFlr	0					
											Roof	73	0	0			
											Wall	190	0	0			
											Ext Door	0	0	0			

Zone Checksums

By MFIA Inc.

Zone - 043

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 11		Mo/Hr: 6 / 10		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 82 / 58 / 36		OADB: 72		OADB: 22						SADB	55.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	78.4	49.5
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	-36	-36	-1	0	0	-160	7.02	0	-160	7.02	Fn Frict	1.1	0.0
Glass Solar	1,209	0	1,209	51	1,574	65	0	0.00	0	0	0.00			
Glass/Door Cond	27	0	27	1	-73	-3	-578	25.32	-578	-578	25.32			
Wall Cond	21	1	22	1	-6	0	-216	10.74	-216	-245	10.74			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	1,257	-35	1,222	52	1,496	62	-795	43.08	-795	-984	43.08			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	307	0	307	13	261	11	0	0.00	0	0	0.00	Diffuser	29	29
People	382	0	382	16	162	7	0	0.00	0	0	0.00	Terminal	29	29
Misc	410	0	410	17	365	15	0	0.00	0	0	0.00	Main Fan	29	29
Sub Total ==>	1,100	0	1,100	46	789	33	0	0.00	0	0	0.00	Sec Fan	0	0
Ceiling Load	139	-139	0	0	139	6	-172	0.00	-172	0	0.00	Nom Vent	12	12
Ventilation Load	0	0	-17	-1	0	0	0	28.05	0	-641	28.05	AHU Vent	12	12
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	Infil	0	0
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	MinStop/Rh	29	29
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	29	29
Exhaust Heat		-11	-11	0			0	0.00	0	0	0.00	Exhaust	12	12
Sup. Fan Heat			51	2			0	0.00	0	0	0.00	Rm Exh	0	0
Ret. Fan Heat			26	1			0	0.00	0	0	0.00	Auxiliary	382	382
Duct Heat Pkup			0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup			0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage			0	0			0	0.00	0	0	0.00	ENGINEERING CKS		
Grand Total ==>	2,496	-159	2,371	100.00	2,423	100.00	-966	100.00	-966	-2,284	100.00	% OA	42.3	42.3
												cfm/ft²	0.22	0.22
												cfm/ton	535.25	
												ft²/ton	2,383.31	
												Btu/hr-ft²	5.04	-6.41
												No. People	1	

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION					
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	0.1	0.7	0.6	29	78.4	58.5	43.6	53.4	48.3	43.6	Floor	129		Main Htg	-0.7	29	53.4	75.0
Aux Clg	0.1	1.7	1.7	382	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-2.6	382	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.2	29	49.5	53.4
											ExFlr	0		Reheat	-0.9	29	53.4	75.0
Total	0.2	2.4									Roof	129	0	Humidif	0.0	0	0.0	0.0
											Wall	123	36	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-3.4			

Zone Checksums

By MFIA Inc.

Zone - 044

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 7 / 17			Mo/Hr: 7 / 17		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 92 / 64 / 49			OADB: 92		OADB: 22			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	Ret/OA	Fn MtrTD	Fn BldTD	Fn Frict		
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens								
Envelope Loads					Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00	Skylite Solar	0	0	0.00			
Skylite Cond	0	0	0	0	0	0	0	0.00	Skylite Cond	0	0	0.00			
Roof Cond	0	178	178	10	0	0	-159	12.56	Roof Cond	0	0	0.00			
Glass Solar	0	0	0	0	0	0	0	0.00	Glass Solar	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0	0	0.00	Glass/Door Cond	0	0	0.00			
Wall Cond	0	0	0	0	0	0	0	0.00	Wall Cond	0	0	0.00			
Partition/Door	0	0	0	0	0	0	0	0.00	Partition/Door	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	Floor	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	Adjacent Floor	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	Infiltration	0	0	0.00			
<i>Sub Total ==></i>	0	178	178	10	0	0	0	-159	12.56	<i>Sub Total ==></i>	0	0	0.00		
Internal Loads					Internal Loads										
Lights	311	0	311	17	311	20	0	0.00	Lights	0	0	0.00			
People	404	0	404	22	224	15	0	0.00	People	0	0	0.00			
Misc	412	0	412	22	412	27	0	0.00	Misc	0	0	0.00			
<i>Sub Total ==></i>	1,126	0	1,126	61	947	61	0	0.00	<i>Sub Total ==></i>	0	0	0.00			
Ceiling Load	138	-138	0	0	138	9	-171	0.00	Ceiling Load	-171	0	0.00			
Ventilation Load	0	0	45	2	0	0	-637	50.18	Ventilation Load	0	-637	50.18			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0			
Dehumid. Ov Sizing			0	0			0	0.00	Ov/Undr Sizing	0	0	0.00			
Ov/Undr Sizing	456		456	25	456	30	0	0.00	Exhaust Heat	0	0	0.00			
Exhaust Heat		-11	-11	-1			0	0.00	OA Preheat Diff.	0	0	0.00			
Sup. Fan Heat			38	2			0	0.00	RA Preheat Diff.	0	0	0.00			
Ret. Fan Heat		19	19	1			-462	36.38	Additional Reheat	-462	36.38				
Duct Heat Pkup		0	0	0			-11	0.88	System Plenum Heat	-11	0.88				
Underflr Sup Ht Pkup		0	0	0			0	0.00	Underflr Sup Ht Pkup	0	0	0.00			
Supply Air Leakage		0	0	0			0	0.00	Supply Air Leakage	0	0	0.00			
Grand Total ==>	1,721	47	1,851	100.00	1,541	100.00	-171	-1,270	100.00	Grand Total ==>	-171	-1,270	100.00		

AIRFLOWS		
	Cooling	Heating
Diffuser	21	21
Terminal	21	21
Main Fan	21	21
Sec Fan	0	0
Nom Vent	12	12
AHU Vent	12	12
Infil	0	0
MinStop/Rh	21	21
Return	21	21
Exhaust	12	12
Rm Exh	0	0
Auxiliary	292	292
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.17	0.17
cfm/ton	441.52	
ft²/ton	2,650.12	
Btu/hr-ft²	4.53	-7.93
No. People	1	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.1	0.6	0.6	21	84.8	63.8	57.9	55.0	52.8	57.9
Aux Clg	0.1	1.3	1.3	292	75.0	63.4	71.8	71.0	62.1	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.2	1.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	128		
Part	0		
Int Door	0		
ExFlr	0		
Roof	128	0	0
Wall	0	0	0
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	-1.9	292	70.0	76.1
Preheat	-0.6	21	42.4	61.6
Reheat	-0.6	21	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2.9			

Zone Checksums

By MFIA Inc.

Zone - 045

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	383	383	3	0	0	-440	4.16	0	-440	13.32	Fn Frict	1.1	0.0
Glass Solar	375	0	375	3	332	3	0	0.00	0	0	0.00			
Glass/Door Cond	221	0	221	2	205	2	-578	5.46	-578	-578	5.46			
Wall Cond	166	18	184	1	178	2	-349	3.70	-349	-391	3.70			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
Sub Total ==>	763	401	1,164	9	715	7	-927	13.32	-927	-1,408	13.32			
Internal Loads				Internal Loads										
Lights	811	0	811	6	857	8	0	0.00	0	0	0.00			
People	6,252	0	6,252	46	3,942	36	0	0.00	0	0	0.00			
Misc	1,075	0	1,075	8	1,136	10	0	0.00	0	0	0.00			
Sub Total ==>	8,139	0	8,139	60	5,935	54	0	0.00	0	0	0.00			
Ceiling Load	382	-382	0	0	381	3	-471	0.00	0	0	0.00			
Ventilation Load	0	0	-125	-1	0	0	0	50.31	0	-5,319	50.31			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0.00			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00			
Ov/Undr Sizing	3,952	0	3,952	29	3,952	36	0	0.00	0	0	0.00			
Exhaust Heat	0	-90	-90	-1	0	0	0	0.00	0	0	0.00			
Sup. Fan Heat	0	0	314	2	0	0	0	0.00	0	0	0.00			
Ret. Fan Heat	0	159	159	1	0	0	-3,856	36.47	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	10	-0.10	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	13,236	87	13,512	100.00	10,983	100.00	-1,398	100.00	-1,398	-10,573	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	178	178
Terminal	178	178
Main Fan	178	178
Sec Fan	0	0
Nom Vent	102	102
AHU Vent	102	102
Infil	0	0
MinStop/Rh	178	178
Return	178	178
Exhaust	102	102
Rm Exh	0	0
Auxiliary	2,296	2,296
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	57.0	57.0
cfm/ft²	0.50	0.50
cfm/ton	541.69	
ft²/ton	1,074.80	
Btu/hr-ft²	11.16	-30.61
No. People	16	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	0.3	4.0	3.7	178	86.1	65.9	66.3	55.0	54.9	66.3
Aux Clg	0.9	10.6	10.6	2,296	75.0	63.4	71.8	70.7	62.0	71.8
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	1.2	14.6								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	354		
Part	0		
Int Door	0		
ExFlr	0		
Roof	354	0	0
Wall	174	36	21
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	-15.9	2,296	70.0	76.4
Preheat	-7.0	178	42.4	71.4
Reheat	-4.8	178	55.0	75.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-26.8			

Zone Checksums

By MFIA Inc.

Zone - 046

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 17		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 92		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	484	484	3	0	0	-557	4.20	0	-557	4.20	Fn Frict	1.1	0.0
Glass Solar	375	0	375	2	332	2	0	0.00	0	0	0.00			
Glass/Door Cond	221	0	221	1	205	1	-578	4.36	-578	-578	4.36			
Wall Cond	223	23	247	1	238	2	-469	3.93	-469	-521	3.93			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00			
<i>Sub Total ==></i>	820	507	1,328	8	776	6	-1,046	12.49	-1,046	-1,655	12.49			
Internal Loads				Internal Loads								AIRFLOWS		
Lights	1,026	0	1,026	6	1,085	8	0	0.00	0	0	0.00	Diffuser	226	226
People	7,913	0	7,913	46	4,989	36	0	0.00	0	0	0.00	Terminal	226	226
Misc	1,361	0	1,361	8	1,437	10	0	0.00	0	0	0.00	Main Fan	226	226
<i>Sub Total ==></i>	10,300	0	10,300	60	7,511	54	0	0.00	0	0	0.00	Sec Fan	0	0
Ceiling Load	483	-483	0	0	482	3	-596	0.00	-596	0	0.00	Nom Vent	129	129
Ventilation Load	0	0	-159	-1	0	0	0	50.79	0	-6,731	50.79	AHU Vent	129	129
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	Infil	0	0
Dehumid. Ov Sizing			0	0			0	0.00	0	0	0.00	MinStop/Rh	226	226
Ov/Undr Sizing	5,131		5,131	30	5,131	37	0	0.00	0	0	0.00	Return	226	226
Exhaust Heat		-114	-114	-1			0	0.00	0	0	0.00	Exhaust	129	129
Sup. Fan Heat			397	2			0	0.00	0	0	0.00	Rm Exh	0	0
Ret. Fan Heat		201	201	1			0	0.00	0	0	0.00	Auxiliary	2,941	2,941
Duct Heat Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup		0	0	0			0	0.00	0	0	0.00	Leakage Ups	0	0
Supply Air Leakage		0	0	0			0	0.00	0	0	0.00			
<i>Grand Total ==></i>	16,734	110	17,083	100.00	13,900	100.00	-1,642	100.00	-1,642	-13,253	100.00	ENGINEERING CKS		

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION							
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass ft² (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F				
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb										
Main Clg	0.4	5.1	4.8	226	86.1	65.9	66.3	55.0	54.9	66.3	Floor	448				Main Htg	-4.9	226	55.0	75.0
Aux Clg	1.1	13.4	13.4	2,941	75.0	63.4	71.8	70.8	62.0	71.8	Part	0				Aux Htg	-20.2	2,941	70.0	76.3
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0				Preheat	-8.8	226	42.4	71.4
											ExFlr	0				Reheat	-6.1	226	55.0	75.0
Total	1.6	18.5									Roof	448	0	0		Humidif	0.0	0	0.0	0.0
											Wall	220	36	16		Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0		Total	-33.9			

Zone Checksums

By MFIA Inc.

Zone - 047

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16		Mo/Hr: 7 / 11		Mo/Hr: Heating Design						Cooling	Heating	
Outside Air:		OADB/WB/HR: 94 / 66 / 53		OADB: 82		OADB: 22						SADB	73.0	75.0
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0
Envelope Loads				Envelope Loads								Ret/OA	86.1	42.4
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0
Roof Cond	0	268	268	3	0	0	-308	4.07	0	0	0.00	Fn Frict	1.1	0.0
Glass Solar	375	0	375	4	1,009	13	0	0.00	0	0	0.00	AIRFLOWS		
Glass/Door Cond	221	0	221	2	43	1	-578	7.63	-578	-578	7.63	Diffuser	125	125
Wall Cond	109	13	122	1	26	0	-230	3.45	-261	-261	3.45	Terminal	125	125
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	125	125
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Sec Fan	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	71	71
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	71	71
Sub Total ==>	706	281	987	10	1,078	14	-808	15.15	-808	-1,146	15.15	Infil	0	0
Internal Loads				Internal Loads								MinStop/Rh	125	125
Lights	568	0	568	6	600	8	0	0.00	0	0	0.00	Return	125	125
People	4,380	0	4,380	45	2,762	36	0	0.00	0	0	0.00	Exhaust	71	71
Misc	753	0	753	8	796	10	0	0.00	0	0	0.00	Rm Exh	0	0
Sub Total ==>	5,702	0	5,702	59	4,158	54	0	0.00	0	0	0.00	Auxiliary	1,634	1,634
Ceiling Load	268	-268	0	0	267	3	-330	0.00	-330	0	0.00	Leakage Dwn	0	0
Ventilation Load	0	0	536	6	0	0	0	49.25	0	-3,726	49.25	Leakage Ups	0	0
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS		
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00	% OA	57.0	57.0
Ov/Undr Sizing	2,192	0	2,192	23	2,192	28	0	0.00	0	0	0.00	cfm/ft²	0.50	0.50
Exhaust Heat	0	-63	-63	-1	0	0	0	0.00	0	0	0.00	cfm/ton	663.56	
Sup. Fan Heat	0	0	220	2	0	0	0	0.00	0	0	0.00	ft²/ton	1,316.61	
Ret. Fan Heat	0	111	111	1	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	9.11	-30.61
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	11	
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00			
Grand Total ==>	8,867	62	9,685	100.00	7,694	100.00	-1,138	100.00	-1,138	-7,565	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass		Capacity	Coil Airflow	Ent °F	Lvg °F		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F		°F	gr/lb					ft²	(%)
Main Clg	0.2	2.3	1.4	125	86.1	64.8	60.7	55.0	53.5	60.7	Floor	248		Main Htg	-2.7	125	55.0	75.0	
Aux Clg	0.6	7.4	7.4	1,634	75.0	63.4	71.8	70.8	62.0	71.8	Part	0		Aux Htg	-11.2	1,634	70.0	76.3	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-4.9	125	42.4	71.4	
											ExFlr	0		Reheat	-3.4	125	55.0	75.0	
Total	0.8	9.7									Roof	248	0	0	Humidif	0.0	0	0.0	0.0
											Wall	128	36	28	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-18.8			

Zone Checksums

By MFIA Inc.

Zone - 048

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES																			
Peaked at Time:		Mo/Hr: 7 / 17		Mo/Hr: 7 / 17		Mo/Hr: Heating Design		Mo/Hr: Heating Design				Cooling	Heating																		
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 92		OADB: 92		OADB: 22				SADB	55.0	75.0																	
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8																	
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)	Return	75.8	70.0																	
Envelope Loads				Envelope Loads				Envelope Loads				Fn MtrTD	0.2	0.0																	
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0																	
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0																	
Roof Cond	0	1,321	13.21	0	0	0	0	16.93	0	-1,193	16.93	AIRFLOWS																			
Glass Solar	0	0	0	0	0	0	0	0.00	0	0	0.00				Diffuser	102	102														
Glass/Door Cond	0	0	0	0	0	0	0	0.00	0	0	0.00				Terminal	102	102														
Wall Cond	136	11	1.1	136	2.2	-320	-349	4.96	-320	-349	4.96				Main Fan	102	102														
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00				Sec Fan	0	0														
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				Nom Vent	58	58														
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00				AHU Vent	58	58														
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00				Infil	0	0														
Sub Total ==>	136	1,332	15.15	136	2.2	-320	-1,542	21.88	-320	-1,542	21.88				MinStop/Rh	102	102														
Internal Loads				Internal Loads				Internal Loads							Return	102	102														
Lights	2,322	0	23.22	2,322	28.28	0	0	0.00	0	0	0.00				Exhaust	58	58														
People	1,474	0	15.15	817	10.10	0	0	0.00	0	0	0.00				Rm Exh	0	0														
Misc	3,078	0	31.78	3,078	37.37	0	0	0.00	0	0	0.00				Auxiliary	1,617	1,617														
Sub Total ==>	6,874	0	68.74	6,216	75.75	0	0	0.00	0	0	0.00				Leakage Dwn	0	0														
Ceiling Load				Ceiling Load				Ceiling Load							Leakage Ups	0	0														
Ventilation Load	0	-1,035	0	0	0	-1,276	0	0.00	0	-3,055	43.36				ENGINEERING CKS																
Adj Air Trans Heat	0	0	0	0	0	0	0	0.00	0	0	0.00							% OA	57.0	57.0											
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	0	0	0.00							cfm/ft²	0.11	0.11											
Ov/Undr Sizing	918	918	9.18	918	11.11	0	0	0.00	0	0	0.00	cfm/ton	311.45																		
Exhaust Heat	0	-52	-1.1	0	0	0	0	0.00	0	0	0.00	ft²/ton	2,916.29																		
Sup. Fan Heat	0	180	2.2	0	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	4.11	-4.08																	
Ret. Fan Heat	0	91	1.1	0	0	0	0	0.00	0	0	0.00	No. People	3																		
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	COOLING COIL SELECTION																			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00							AREAS													
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00										HEATING COIL SELECTION										
Grand Total ==>	8,962	336	10,035	100.00	8,302	100.00	-1,596	-7,046	100.00	-1,596	-7,046													100.00	Total Capacity	0.8	10.0				
COOLING COIL SELECTION				COOLING COIL SELECTION				COOLING COIL SELECTION																AREAS				HEATING COIL SELECTION			
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR	Leave DB/WB/HR	Gross Total	Glass			Capacity	Coil Airflow	Ent													Lvg							
ton	MBh	cfm	°F °F gr/lb	°F °F gr/lb		ft² (%)			MBh	cfm	°F													°F							
Main Clg	0.3	4.0	3.8	102 84.8 63.0 54.2	53.4 49.3 47.3	Floor	960		-2.4	102	53.4													75.0							
Aux Clg	0.5	6.1	6.1	1,617 75.0 63.4 71.8	71.5 62.2 71.8	Part	0		-9.2	1,617	70.0													75.2							
Opt Vent	0.0	0.0	0.0	0 0.0 0.0 0.0	0.0 0.0 0.0	Int Door	0		-1.5	102	42.4													53.4							
Total	0.8	10.0				ExFlr	0		-3.0	102	53.4													75.0							
						Roof	960	0 0	0.0	0	0.0				0.0																
						Wall	123	0 0	0.0	0	0.0				0.0																
						Ext Door	0	0 0	-13.1																						

Zone Checksums

By MFIA Inc.

Zone - 049

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 17		Mo/Hr: 9 / 17		Mo/Hr: Heating Design						Cooling	Heating				
Outside Air:		OADB/WB/HR: 92 / 64 / 49		OADB: 92		OADB: 22						SADB	55.0	75.0			
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Ra Plenum	78.4	65.8			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Return	75.8	70.0			
Envelope Loads				Envelope Loads								Ret/OA	83.3	46.8			
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0.00				Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0.00				Fn BldTD	0.4	0.0			
Roof Cond	0	189	189	2	0	Roof Cond	0	7.01				Fn Frict	1.1	0.0			
Glass Solar	2,320	0	2,320	28	2,320	30	Glass Solar	0	0.00			AIRFLOWS					
Glass/Door Cond	150	0	150	2	150	2	Glass/Door Cond	-578	-578	8.77	Cooling				Heating		
Wall Cond	260	24	284	3	260	3	Wall Cond	-616	-682	10.36	Diffuser				94	94	
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00	Terminal				94	94	
Floor	0	0	0	0	0	0	Floor	0	0	0.00	Main Fan				94	94	
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00	Sec Fan				0	0	
Infiltration	0	0	0	0	0	0	Infiltration	0	0	0.00	Nom Vent				45	45	
Sub Total ==>	2,730	214	2,943	35	2,730	36	Sub Total ==>	-1,194	-1,720	26.14	AHU Vent				45	45	
Internal Loads				Internal Loads											Infil	0	0
Lights	1,499	0	1,499	18	1,499	19	Lights	0	0	0.00	MinStop/Rh				94	94	
People	928	0	928	11	514	7	People	0	0	0.00	Return	94	94				
Misc	1,989	0	1,989	24	1,989	26	Misc	0	0	0.00	Exhaust	45	45				
Sub Total ==>	4,415	0	4,415	53	4,001	52	Sub Total ==>	0	0	0.00	Rm Exh	0	0				
Ceiling Load				Ceiling Load								Auxiliary	1,495	1,495			
Ventilation Load	0	-670	0	0	668	9	Ventilation Load	-826	0	0.00	Leakage Dwn	0	0				
Adj Air Trans Heat	0	0	493	6	0	0	Adj Air Trans Heat	0	-2,361	35.87	Leakage Ups	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00	ENGINEERING CKS						
Ov/Undr Sizing	289		289	3	289	4	Exhaust Heat	0	0	0.00				% OA	47.9	47.9	
Exhaust Heat		-40	-40	0			OA Preheat Diff.	0	0	0.00				cfm/ft²	0.15	0.15	
Sup. Fan Heat			166	2			RA Preheat Diff.	0	0	0.00				cfm/ton	410.52		
Ret. Fan Heat		84	84	1			Additional Reheat	-2,202	33.45					ft²/ton	2,706.86		
Duct Heat Pkup		0	0	0			System Plenum Heat	-299	4.55					Btu/hr-ft²	4.43	-4.89	
Underflr Sup Ht Pkup		0	0	0			Underflr Sup Ht Pkup	0	0	0.00				No. People	2		
Supply Air Leakage		0	0	0			Supply Air Leakage	0	0	0.00							
Grand Total ==>	8,103	-413	8,349	100.00	7,687	100.00	Grand Total ==>	-2,020	-6,582	100.00							

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F	gr/lb
Main Clg	0.2	2.8	2.5	94	82.3	60.8	47.6	53.4	49.4	47.6	Floor	621		Main Htg	-2.2	94	53.4	75.0	
Aux Clg	0.5	5.6	5.6	1,495	75.0	63.4	71.8	71.5	62.3	71.8	Part	0		Aux Htg	-8.4	1,495	70.0	75.2	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.8	94	46.8	53.4	
											ExFlr	0		Reheat	-2.8	94	53.4	75.0	
											Roof	371	0	0	Humidif	0.0	0	0.0	0.0
											Wall	276	36	13	Opt Vent	0.0	0	0.0	0.0
Total	0.7	8.4									Ext Door	0	0	0	Total	-11.5			

Zone Checksums

By MFIA Inc.

Unconditioned

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 0 / 0		Mo/Hr: 0 / 0		Mo/Hr: Heating Design			Cooling	Heating					
Outside Air:		OADB/WB/HR: 0 / 0 / 0		OADB: 0		OADB: 22			SADB	0.0	70.0				
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return	0.0	67.6				
Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Ret/OA	0.0	70.0				
Envelope Loads				Envelope Loads							AIRFLOWS				
Skylite Solar	0	0	0	0	0	0	0	0.00	Skylite Solar	0	0	0.00	Diffuser	0	0
Skylite Cond	0	0	0	0	0	0	0	0.00	Skylite Cond	0	0	0.00	Terminal	0	0
Roof Cond	0	0	0	0	0	0	0	6.79	Roof Cond	0	0	6.79	Main Fan	0	0
Glass Solar	0	0	0	0	0	0	0	0.00	Glass Solar	0	0	0.00	Sec Fan	0	0
Glass/Door Cond	0	0	0	0	0	-9,756	-9,756	61.60	Glass/Door Cond	-9,756	-9,756	61.60	Nom Vent	0	0
Wall Cond	0	0	0	0	0	-4,432	-4,953	31.27	Wall Cond	-4,432	-4,953	31.27	AHU Vent	0	0
Partition/Door	0	0	0	0	0	0	0	0.00	Partition/Door	0	0	0.00	Infil	0	0
Floor	0	0	0	0	0	0	-54	0.34	Floor	-54	-54	0.34	MinStop/Rh	0	0
Adjacent Floor	0	0	0	0	0	0	0	0.00	Adjacent Floor	0	0	0.00	Return	0	0
Infiltration	0	0	0	0	0	0	0	0.00	Infiltration	0	0	0.00	Exhaust	0	0
Sub Total ==>	0	0	0	0	0	-14,241	-15,837	100.00	Sub Total ==>	-14,241	-15,837	100.00	Rm Exh	0	0
Internal Loads				Internal Loads							ENGINEERING CKS				
Lights	0	0	0	0	0	0	0	0.00	Lights	0	0	0.00	% OA	0.0	0.0
People	0	0	0	0	0	0	0	0.00	People	0	0	0.00	cfm/ft²	0.00	0.00
Misc	0	0	0	0	0	0	0	0.00	Misc	0	0	0.00	cfm/ton	0.00	
Sub Total ==>	0	0	0	0	0	0	0	0.00	Sub Total ==>	0	0	0.00	ft²/ton	0.00	
Ceiling Load	0	0	0	0	0	-1,596	0	0.00	Ceiling Load	-1,596	0	0.00	Btu/hr-ft²	0.00	0.00
Ventilation Load	0	0	0	0	0	0	0	0.00	Ventilation Load	0	0	0.00	No. People	7	
Adj Air Trans Heat	0	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0.00	Ov/Undr Sizing	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	0	0.00	Exhaust Heat	0	0	0.00			
Exhaust Heat	0	0	0	0	0	0	0	0.00	OA Preheat Diff.	0	0	0.00			
Sup. Fan Heat	0	0	0	0	0	0	0	0.00	RA Preheat Diff.	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0.00	Additional Reheat	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	System Plenum Heat	0	0	0.00			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	Underflr Sup Ht Pkup	0	0	0.00			
Supply Air Leakage	0	0	0	0	0	0	0	0.00	Supply Air Leakage	0	0	0.00			
Grand Total ==>	0	0	100.00	0	100.00	-15,837	-15,837	100.00	Grand Total ==>	-15,837	-15,837	100.00			

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F							
Main Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Floor	2,126		0.0	0	70.0	70.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		0.0	0	0.0	0.0
Total	0.0	0.0									ExFlr	53		0.0	0	0.0	0.0
											Roof	490	0	0			
											Wall	1,843	250	14			
											Ext Door	84	0	0			
											Total	0.0					

Zone Checksums

By MFIA Inc.

Zone - 001

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 16			Mo/Hr: 7 / 10		Mo/Hr: Heating Design						Cooling			Heating				
Outside Air:		OADB/WB/HR: 94 / 66 / 53			OADB: 76		OADB: 22						SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Return			Ret/OA				
	Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Fn MtrTD			Fn BldTD				
													Fn Frict							
Envelope Loads					Envelope Loads															
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	9,194	0	9,194	14	13,929	29	0	0	0.00	0	0	0.00								
	850	0	850	1	-423	-1	-5,834	-5,834	11.40	-5,834	-5,834	11.40								
	2,078	252	2,330	4	2,447	5	-3,178	-3,562	6.96	-3,178	-3,562	6.96								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	-1,200	0	-1,200	-2	-1,144	-2	-2,127	-2,127	4.16	-2,127	-2,127	4.16								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	10,922	252	11,174	17	14,810	31	-11,139	-11,523	22.51	-11,139	-11,523	22.51								
Internal Loads					Internal Loads															
	9,678	0	9,678	15	9,839	21	0	0	0.00	0	0	0.00								
	20,445	0	20,445	32	12,047	25	0	0	0.00	0	0	0.00								
	10,787	0	10,787	17	10,990	23	0	0	0.00	0	0	0.00								
	40,909	0	40,909	64	32,876	69	0	0	0.00	0	0	0.00								
	80	-80	0	0	94	0	-122	0	0.00	-122	0	0.00								
	0	0	6,680	10	0	0	0	-23,421	45.76	0	-23,421	45.76								
	0	0	0	0	0	0	0	0	0	0	0	0								
	0	0	0	0	0	0	-16,288	-16,288	31.83	-16,288	-16,288	31.83								
	0	0	0	0	0	0	0	53	-0.10	0	53	-0.10								
	-433	-433	-433	-1	0	0	0	0	0.00	0	0	0.00								
	3,891	3,891	3,891	6	0	0	0	0	0.00	0	0	0.00								
	1,965	1,965	1,965	3	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	51,911	1,704	64,185	100.00	47,779	100.00	-27,549	-51,179	100.00	-27,549	-51,179	100.00								

AIRFLOWS		
	Cooling	Heating
Diffuser	2,211	2,211
Terminal	2,211	2,211
Main Fan	2,211	2,211
Sec Fan	0	0
Nom Vent	448	448
AHU Vent	448	448
Infil	0	0
MinStop/Rh	0	0
Return	2,211	2,211
Exhaust	448	448
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	20.3	20.3
cfm/ft²	0.63	0.63
cfm/ton	359.40	
ft²/ton	568.19	
Btu/hr-ft²	21.12	-18.30
No. People	50	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	6.2	73.8	57.1	2,211	79.0	60.7	52.7	53.4	48.4	44.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	6.2	73.8								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	3,495		
Part	0		
Int Door	0		
ExFlr	2,113		
Roof	0	0	0
Wall	1,354	214	16
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-64.0	2,211	60.1	81.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-64.0			

Zone Checksums

By MFIA Inc.

Zone - 002

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES				
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 9 / 16		Mo/Hr: Heating Design						Cooling			Heating			
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 89		OADB: 22						SADB			Ra Plenum			
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Return	Fn MtrTD	Fn BldTD	Fn Frict			
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	(%)	Btu/h	Btu/h	(%)							
Envelope Loads					Envelope Loads										AIRFLOWS				
Skylite Solar	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser	2,601	2,601				
Skylite Cond	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Terminal	2,601	2,601				
Roof Cond	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	2,601	2,601				
Glass Solar	20,503	0	20,503	26	22,527	40	0	0	0.00	0	0	0.00	Sec Fan	0	0				
Glass/Door Cond	2,120	0	2,120	3	1,656	3	-5,829	-5,829	13.41	-5,829	-5,829	13.41	Nom Vent	496	496				
Wall Cond	3,324	411	3,735	5	3,454	6	-2,798	-3,144	7.23	-2,798	-3,144	7.23	AHU Vent	496	496				
Partition/Door	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil	0	0				
Floor	-904	0	-904	-1	-888	-2	-1,993	-1,993	4.59	-1,993	-1,993	4.59	MinStop/Rh	0	0				
Adjacent Floor	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Return	2,601	2,601				
Infiltration	0	0	0	0	0	0	0	0	0.00	0	0	0.00	Exhaust	496	496				
Sub Total ==>	25,043	411	25,454	32	26,749	48	-10,621	-10,967	25.23	-10,621	-10,967	25.23	Rm Exh	0	0				
Internal Loads					Internal Loads										ENGINEERING CKS				
Lights	5,493	0	5,493	7	5,493	10	0	0	0.00	0	0	0.00	% OA	19.1	19.1				
People	29,122	0	29,122	37	17,784	32	0	0	0.00	0	0	0.00	cfm/ft²	1.31	1.31				
Misc	6,107	0	6,107	8	6,107	11	0	0	0.00	0	0	0.00	cfm/ton	343.53					
Sub Total ==>	40,722	0	40,722	52	29,384	52	0	0	0.00	0	0	0.00	ft²/ton	261.45					
Grand Total ==>	65,840	2,143	79,000	100.00	56,211	100.00	-17,281	-43,462	100.00	-17,281	-43,462	100.00	Btu/hr-ft²	45.90	-27.45				
													No. People	73					

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass			Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	ft²	(%)	MBh	cfm	°F	°F		
Main Clg	7.6	90.9	71.2	2,601	79.3	61.8	57.0	53.4	49.1	46.8	Floor	1,979	Main Htg	-54.3	2,601	60.7	76.2	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0	Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0	Preheat	0.0	0	0.0	0.0	
Total	7.6	90.9									ExFlr	1,979	Humidif	0.0	0	0.0	0.0	
											Roof	0	0	0	0	0.0	0.0	
											Wall	1,220	214	18	0	0.0	0.0	
											Ext Door	0	0	0	0	0.0	0.0	
											Total	-54.3						

Zone Checksums

By MFIA Inc.

Zone - 003

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16			Mo/Hr: 7 / 10		Mo/Hr: Heating Design						Cooling	Heating			
Outside Air:		OADB/WB/HR: 94 / 66 / 53			OADB: 76		OADB: 22						SADB	55.0	79.5		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Coil Peak	Percent Of Total	Ra Plenum	75.1	69.9			
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	(%)	Btu/h	Btu/h	(%)	Return	75.9	69.9			
Envelope Loads					Envelope Loads										Ret/OA	79.6	59.9
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	3,637	0	3,637	12	6,911	31	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	1,024	0	1,024	3	164	1	-3,893	17.82	-3,893	-3,893	17.82	Diffuser	1,036	1,036			
Wall Cond	825	108	934	3	1,010	5	-1,212	6.29	-1,375	-1,375	6.29	Terminal	1,036	1,036			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	1,036	1,036			
Floor	-423	0	-423	-1	-408	-2	-750	3.43	-750	-750	3.43	Sec Fan	0	0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	214	214			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	214	214			
Sub Total ==>	5,062	108	5,171	17	7,677	34	-5,855	27.54	-6,018	-6,018	27.54	Infil	0	0			
Internal Loads					Internal Loads										MinStop/Rh	0	0
Lights	3,841	0	3,841	13	3,919	18	0	0.00	0	0	0.00	Return	1,036	1,036			
People	10,971	0	10,971	37	6,378	28	0	0.00	0	0	0.00	Exhaust	214	214			
Misc	4,278	0	4,278	14	4,375	20	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	19,089	0	19,089	64	14,672	66	0	0.00	0	0	0.00	Auxiliary	0	0			
Ceiling Load	31	-31	0	0	38	0	-46	0.00	0	0	0.00	Leakage Dwn	0	0			
Ventilation Load	0	0	3,042	10	0	0	0	51.12	-11,172	-11,172	51.12	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0	ENGINEERING CKS					
Dehumid. Ov Sizing	0	0	0	0	0	0	-4,688	21.45	-4,688	-4,688	21.45	% OA	20.6	20.6			
Ov/Undr Sizing	0	0	0	0	0	0	0	-0.11	0	0	-0.11	cfm/ft²	0.74	0.74			
Exhaust Heat	0	-206	-206	-1	0	0	0	0.00	0	0	0.00	cfm/ton	362.22				
Sup. Fan Heat	0	0	1,823	6	0	0	0	0.00	0	0	0.00	ft²/ton	486.73				
Ret. Fan Heat	0	921	921	3	0	0	0	0.00	0	0	0.00	Btu/hr-ft²	24.65	-19.63			
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00	No. People	27				
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	24,182	793	29,840	100.00	22,387	100.00	-10,589	100.00	-21,854	-21,854	100.00						

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft² (%)	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								MBh
Main Clg	2.9	34.3	26.2	1,036	79.1	61.1	54.3	53.4	49.0	46.4	Floor	1,392						
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0						
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0						
Total	2.9	34.3									ExFlr	745						
											Roof	0	0	0				
											Wall	547	107	20				
											Ext Door	28	0	0				
											Total	-27.3						

Zone Checksums

By MFIA Inc.

Zone - 004

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES		
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 9 / 16		Mo/Hr: Heating Design						Cooling	Heating			
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 89		OADB: 22						SADB	55.0	74.0		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Coil Peak	Percent Of Total	Ra Plenum	75.1	69.9			
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens		Btu/h	Btu/h		Return	75.9	69.9			
Envelope Loads					Envelope Loads										Ret/OA	79.3	60.9
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn MtrTD	0.2	0.0			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn BldTD	0.4	0.0			
Roof Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Fn Frict	1.1	0.0			
Glass Solar	13,219	0	13,219	24	15,018	38	0	0.00	0	0	0.00	AIRFLOWS					
Glass/Door Cond	1,517	0	1,517	3	1,104	3	-3,886	15.10	-3,886	-3,886	15.10	Diffuser	1,817	1,817			
Wall Cond	1,819	237	2,056	4	1,905	5	-1,471	6.46	-1,662	-1,662	6.46	Terminal	1,817	1,817			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Main Fan	1,817	1,817			
Floor	-805	0	-805	-1	-789	-2	-1,771	6.88	-1,771	-1,771	6.88	Sec Fan	0	0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Nom Vent	340	340			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	AHU Vent	340	340			
Sub Total ==>	15,750	237	15,986	29	17,238	44	-7,127	28.44	-7,127	-7,319	28.44	Infil	0	0			
Internal Loads					Internal Loads										MinStop/Rh	0	0
Lights	4,861	0	4,861	9	4,861	12	0	0.00	0	0	0.00	Return	1,817	1,817			
People	19,126	0	19,126	35	11,715	30	0	0.00	0	0	0.00	Exhaust	340	340			
Misc	5,401	0	5,401	10	5,401	14	0	0.00	0	0	0.00	Rm Exh	0	0			
Sub Total ==>	29,388	0	29,388	54	21,977	56	0	0.00	0	0	0.00	Auxiliary	0	0			
Ceiling Load	52	-52	0	0	55	0	-42	0.00	0	0	0.00	Leakage Dwn	0	0			
Ventilation Load	0	0	4,875	9	0	0	-17,767	69.04	0	-17,767	69.04	Leakage Ups	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	-677	2.63	0	-677	2.63						
Ov/Undr Sizing	0	0	0	0	0	0	28	-0.11	0	28	-0.11						
Exhaust Heat	0	-336	-336	-1	0	0	0	0.00	0	0	0.00						
Sup. Fan Heat	0	0	3,198	6	0	0	0	0.00	0	0	0.00						
Ret. Fan Heat	0	1,615	1,615	3	0	0	0	0.00	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00						
Grand Total ==>	45,190	1,463	54,726	100.00	39,270	100.00	-7,847	100.00	-7,847	-25,736	100.00	ENGINEERING CKS					

COOLING COIL SELECTION										AREAS			HEATING COIL SELECTION						
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	Lvg	Capacity	Coil Airflow	Ent	Lvg		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb								ft²	(%)
Main Clg	5.2	62.9	49.5	1,817	79.3	61.7	56.7	53.4	49.2	46.9	Floor	1,758		Main Htg	-32.2	1,817	60.9	74.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0	
Total	5.2	62.9									ExFlr	1,758		Humidif	0.0	0	0.0	0.0	
											Roof	0	0	Opt Vent	0.0	0	0.0	0.0	
											Wall	674	143	21	Total	-32.2			
											Ext Door	0	0	0					

Zone Checksums

By MFIA Inc.

Zone - 005

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 9 / 16		Mo/Hr: Heating Design						Cooling			Heating				
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 89		OADB: 22						SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Tot Sens	Percent Of Total	Return			Ret/OA				
	Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Btu/h		Btu/h	Btu/h		Fn MtrTD			Fn BldTD				
													Fn Frict							
Envelope Loads					Envelope Loads															
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	7,572	0	7,572	20	8,245	31	0	0	0.00	0	0	0.00								
	1,517	0	1,517	4	1,104	4	-3,886	-3,886	19.43	-3,886	-3,886	19.43								
	1,727	210	1,938	5	1,626	6	-2,011	-2,256	11.28	-2,011	-2,256	11.28								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	-833	0	-833	-2	-816	-3	-1,833	-1,833	9.16	-1,833	-1,833	9.16								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	9,982	210	10,193	27	10,159	38	-7,730	-7,975	39.88	-7,730	-7,975	39.88								
Internal Loads					Internal Loads															
	5,031	0	5,031	13	5,031	19	0	0	0.00	0	0	0.00								
	10,920	0	10,920	29	6,067	23	0	0	0.00	0	0	0.00								
	5,590	0	5,590	15	5,590	21	0	0	0.00	0	0	0.00								
	21,542	0	21,542	56	16,689	62	0	0	0.00	0	0	0.00								
	63	-63	0	0	59	0	-74	0	0.00	-74	0	0.00								
	0	0	3,371	9	0	0	0	-12,056	60.28	0	-12,056	60.28								
	0	0	0	0	0	0	0	0	0	0	0	0								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	32	-0.16	0	32	-0.16								
	-232	-232	-1	-1	0	0	0	0	0.00	0	0	0.00								
	2,191	2,191	6	6	0	0	0	0	0.00	0	0	0.00								
	1,107	1,107	3	3	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	0	0	0	0	0	0	0	0	0.00	0	0	0.00								
	31,587	1,022	38,171	100.00	26,907	100.00	-7,803	-19,999	100.00	-7,803	-19,999	100.00								

AIRFLOWS		
	Cooling	Heating
Diffuser	1,245	1,245
Terminal	1,245	1,245
Main Fan	1,245	1,245
Sec Fan	0	0
Nom Vent	231	231
AHU Vent	231	231
Infil	0	0
MinStop/Rh	0	0
Return	1,245	1,245
Exhaust	231	231
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.5	18.5
cfm/ft²	0.68	0.68
cfm/ton	340.33	
ft²/ton	497.53	
Btu/hr-ft²	24.12	-13.74
No. People	24	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	3.7	43.9	34.7	1,245	79.3	61.6	56.4	53.4	48.8	45.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	3.7	43.9								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	1,820		
Part	0		
Int Door	0		
ExFlr	1,820		
Roof	0	0	0
Wall	864	143	17
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-25.0			

Zone Checksums

By MFIA Inc.

Zone - 006

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: 7 / 10		Mo/Hr: Heating Design			Cooling			Heating				
Outside Air:		OADB/WB/HR: 95 / 66 / 54		OADB: 76		OADB: 22			SADB			Ra Plenum				
	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads				Envelope Loads												
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	7,312	7,312	9	0	0	0	-6,711	11.81							
	5,310	0	5,310	7	12,709	24	0	0	0.00							
	1,769	0	1,769	2	-250	0	-5,834	-5,834	10.27							
	1,812	207	2,019	3	2,191	4	-2,874	-3,214	5.66							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	8,892	7,518	16,411	21	14,649	28	-8,707	-15,758	27.73							
Internal Loads				Internal Loads												
	8,998	0	8,998	12	9,236	18	0	0	0.00							
	27,934	0	27,934	36	16,825	32	0	0	0.00							
	10,064	0	10,064	13	10,290	20	0	0	0.00							
	46,996	0	46,996	61	36,350	69	0	0	0.00							
	2,136	-2,136	0	0	1,415	3	-2,003	0	0.00							
	0	0	8,744	11	0	0	0	-26,460	46.56							
	0	0	0	0	0	0	0	0	0							
	0	0	0	0	0	0	-15,663	-15,663	27.56							
	0	0	0	0	0	0	0	1,053	-1.85							
	-1,572	-1,572	-2	-2	0	0	0	0	0.00							
	0	4,268	6	6	0	0	0	0	0.00							
	2,156	2,156	3	3	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	58,025	5,965	77,003	100.00	52,414	100.00	-26,374	-56,829	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	2,425	2,425
Terminal	2,425	2,425
Main Fan	2,425	2,425
Sec Fan	0	0
Nom Vent	506	506
AHU Vent	506	506
Infil	0	0
MinStop/Rh	0	0
Return	2,425	2,425
Exhaust	506	506
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	20.9	20.9
cfm/ft²	0.74	0.74
cfm/ton	328.64	
ft²/ton	444.87	
Btu/hr-ft²	26.97	-21.64
No. People	70	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	7.4	88.6	67.2	2,425	81.1	62.1	55.5	53.4	48.9	45.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	7.4	88.6								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	3,283		
Part	0		
Int Door	0		
ExFlr	0		
Roof	3,033	0	0
Wall	1,247	214	17
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-71.0			

Zone Checksums

By MFIA Inc.

Zone - 007

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES						
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 9 / 16		Mo/Hr: Heating Design						Cooling			Heating					
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 89		OADB: 22						SADB			Ra Plenum					
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Space Sens	Coil Peak	Percent Of Total	Return			Ret/OA						
Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Tot Sens	(%)	Btu/h	Btu/h	(%)	Fn MtrTD			Fn BldTD						
Envelope Loads					Envelope Loads								Fn Frict			AIRFLOWS					
Skylite Solar	0	0	0	0	0	0	0	0.00	0	0	0.00	Diffuser			2,542			2,542			
Skylite Cond	0	0	0	0	0	0	0	0.00	0	0	0.00	Terminal			2,542			2,542			
Roof Cond	0	5,130	5,130	7	0	0	-4,836	8.66	0	0	0.00	Main Fan			2,542			2,542			
Glass Solar	20,249	0	20,249	26	22,336	41	0	0.00	0	0	0.00	Sec Fan			0			0			
Glass/Door Cond	2,113	0	2,113	3	1,650	3	-5,829	10.44	-5,829	-5,829	10.44	Nom Vent			445			445			
Wall Cond	3,187	387	3,573	5	3,312	6	-2,897	5.81	-2,897	-3,242	5.81	AHU Vent			445			445			
Partition/Door	0	0	0	0	0	0	0	0.00	0	0	0.00	Infil			0			0			
Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	MinStop/Rh			0			0			
Adjacent Floor	0	0	0	0	0	0	0	0.00	0	0	0.00	Return			2,542			2,542			
Infiltration	0	0	0	0	0	0	0	0.00	0	0	0.00	Exhaust			445			445			
Sub Total ==>	25,549	5,517	31,066	39	27,298	50	-8,726	24.91	-8,726	-13,908	24.91	Rm Exh			0			0			
Internal Loads					Internal Loads								Auxiliary			0			0		
Lights	5,940	0	5,940	8	6,046	11	0	0.00	0	0	0.00	Leakage Dwn			0			0			
People	23,003	0	23,003	29	13,946	25	0	0.00	0	-23,270	41.68	Leakage Ups			0			0			
Misc	6,626	0	6,626	8	6,738	12	0	0.00	0	0	0.00										
Sub Total ==>	35,569	0	35,569	45	26,731	49	0	0.00	0	0	0.00										
Ceiling Load	1,103	-1,103	0	0	904	2	-1,036	0.00	-1,036	0	0.00										
Ventilation Load	0	0	6,521	8	0	0	0	41.68	0	-23,270	41.68										
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0	0										
Dehumid. Ov Sizing	0	0	0	0	0	0	-19,380	34.71	-19,380	-19,380	34.71										
Ov/Undr Sizing	0	0	0	0	0	0	726	-1.30	0	0	0.00										
Exhaust Heat	-1,168	-1,168	-1	-1	0	0	0	0.00	0	0	0.00										
Sup. Fan Heat	4,473	4,473	6	6	0	0	0	0.00	0	0	0.00										
Ret. Fan Heat	2,259	2,259	3	3	0	0	0	0.00	0	0	0.00										
Duct Heat Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00										
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00	0	0	0.00										
Supply Air Leakage	0	0	0	0	0	0	0	0.00	0	0	0.00										
Grand Total ==>	62,221	5,505	78,721	100.00	54,933	100.00	-29,143	100.00	-29,143	-55,832	100.00										

COOLING COIL SELECTION										AREAS				HEATING COIL SELECTION				
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Gross Total	Glass	ft² (%)	Capacity	Coil Airflow	Ent	Lvg	
	ton	MBh			MBh	cfm	°F	°F	gr/lb	°F								°F
Main Clg	7.5	90.5	72.1	2,542	80.3	61.9	55.8	53.4	49.0	46.1	Floor	2,166		Main Htg	-69.8	2,542	60.3	80.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	0.0	0	0.0	0.0
											ExFlr	0						
Total	7.5	90.5									Roof	2,166	0	Humidif	0.0	0	0.0	0.0
											Wall	1,255	214	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-69.8			

Zone Checksums

By MFIA Inc.

Zone - 008

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK			TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 15		Mo/Hr: 7 / 10		Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 95 / 66 / 54		OADB: 76		OADB: 22			SADB			Ra Plenum		
Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return <th>Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th></th>	Ret/OA <th>Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th></th>	Fn MtrTD <th>Fn BldTD <th>Fn Frict </th></th>	Fn BldTD <th>Fn Frict </th>	Fn Frict	
Btu/h	Btu/h	Btu/h		Btu/h		Btu/h	Tot Sens Btu/h							
Envelope Loads				Envelope Loads										
Skylite Solar	0	0	0	0	0	0	0	0.00						
Skylite Cond	0	0	0	0	0	0	0	0.00						
Roof Cond	0	4,155	4,155	8	0	0	-3,785	10.31						
Glass Solar	5,990	0	5,990	12	10,139	30	0	0.00						
Glass/Door Cond	1,564	0	1,564	3	375	1	-5,258	14.32						
Wall Cond	1,249	153	1,402	3	1,540	5	-1,984	6.08						
Partition/Door	0	0	0	0	0	0	0	0.00						
Floor	0	0	0	0	0	0	0	0.00						
Adjacent Floor	0	0	0	0	0	0	0	0.00						
Infiltration	0	0	0	0	0	0	0	0.00						
Sub Total ==>	8,804	4,308	13,111	26	12,054	35	-7,242	30.72						
Internal Loads				Internal Loads										
Lights	4,639	0	4,639	9	4,746	14	0	0.00						
People	18,558	0	18,558	37	11,354	33	0	0.00						
Misc	5,188	0	5,188	10	5,281	15	0	0.00						
Sub Total ==>	28,385	0	28,385	57	21,381	63	0	0.00						
Ceiling Load	1,035	-1,035	0	0	731	2	-970	0.00						
Ventilation Load	0	0	5,517	11	0	0	-17,385	47.36						
Adj Air Trans Heat	0	0	0	0	0	0	0	0						
Dehumid. Ov Sizing	0	0	0	0	0	0	-8,694	23.68						
Ov/Undr Sizing	0	0	0	0	0	0	644	-1.76						
Exhaust Heat	0	-984	-984	-2	0	0	0	0.00						
Sup. Fan Heat	0	0	2,782	6	0	0	0	0.00						
Ret. Fan Heat	0	1,405	1,405	3	0	0	0	0.00						
Duct Heat Pkup	0	0	0	0	0	0	0	0.00						
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0.00						
Supply Air Leakage	0	0	0	0	0	0	0	0.00						
Grand Total ==>	38,224	3,694	50,217	100.00	34,166	100.00	-16,906	36.712	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	1,581	1,581
Terminal	1,581	1,581
Main Fan	1,581	1,581
Sec Fan	0	0
Nom Vent	332	332
AHU Vent	332	332
Infil	0	0
MinStop/Rh	0	0
Return	1,581	1,581
Exhaust	332	332
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	21.0	21.0
cfm/ft²	0.93	0.93
cfm/ton	328.49	
ft²/ton	354.47	
Btu/hr-ft²	33.85	-26.90
No. People	47	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh			°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	4.8	57.8	43.9	1,581	81.0	62.1	55.6	53.4	48.9	45.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	4.8	57.8								

AREAS			
	Gross Total	Glass ft²	(%)
Floor	1,706		
Part	0		
Int Door	0		
ExFlr	0		
Roof	1,706	0	0
Wall	910	193	21
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-45.9	1,581	58.4	79.9
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-45.9			

Zone Checksums

By MFIA Inc.

Zone - 009

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES					
Peaked at Time:		Mo/Hr: 8 / 16			Mo/Hr: 9 / 16			Mo/Hr: Heating Design			Cooling			Heating		
Outside Air:		OADB/WB/HR: 94 / 65 / 49			OADB: 89			OADB: 22			SADB			Ra Plenum		
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak	Coil Peak	Percent Of Total	Return			Ret/OA			
	Btu/h	Btu/h	Btu/h		Btu/h		Space Sens	Tot Sens		Fn MtrTD			Fn BldTD			
							Btu/h	Btu/h		Fn Frict						
Envelope Loads					Envelope Loads											
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	4,630	4,630	5	0	0	0	-4,487	7.69							
	20,137	0	20,137	24	22,449	38	0	0	0.00							
	2,168	0	2,168	3	1,653	3	-5,829	-5,829	9.99							
	3,382	409	3,792	4	3,475	6	-2,896	-3,243	5.56							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	25,688	5,040	30,727	36	27,577	47	-8,725	-13,559	23.25							
Internal Loads					Internal Loads											
	5,508	0	5,508	6	5,548	9	0	0	0.00							
	30,180	0	30,180	35	18,398	31	0	0	0.00							
	6,134	0	6,134	7	6,172	11	0	0	0.00							
	41,822	0	41,822	49	30,118	52	0	0	0.00							
	899	-899	0	0	748	1	-863	0	0.00							
	0	0	6,902	8	0	0	0	-26,659	45.71							
	0	0	0	0	0	0	0	0	0							
	0	0	0	0	0	0	-18,850	-18,850	32.32							
	0	0	0	0	0	0	0	749	-1.28							
	-1,233	-1,233	-1	-1	0	0	0	0	0.00							
	4,759	4,759	6	6	0	0	0	0	0.00							
	2,404	2,404	3	3	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	0	0	0	0	0	0	0	0	0.00							
	68,409	5,310	85,380	100.00	58,444	100.00	-28,438	-58,319	100.00							

AIRFLOWS		
	Cooling	Heating
Diffuser	2,704	2,704
Terminal	2,704	2,704
Main Fan	2,704	2,704
Sec Fan	0	0
Nom Vent	510	510
AHU Vent	510	510
Infil	0	0
MinStop/Rh	0	0
Return	2,704	2,704
Exhaust	510	510
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	18.8	18.8
cfm/ft²	1.35	1.35
cfm/ton	330.49	
ft²/ton	244.87	
Btu/hr-ft²	49.01	-36.38
No. People	76	

COOLING COIL SELECTION										
	Total Capacity		Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR		
	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
Main Clg	8.2	98.2	77.1	2,704	80.4	62.2	57.1	53.4	49.1	46.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	8.2	98.2								

AREAS			
	Gross Total	Glass	
		ft²	(%)
Floor	2,004		
Part	0		
Int Door	0		
ExFlr	0		
Roof	2,004	0	0
Wall	1,254	214	17
Ext Door	0	0	0

HEATING COIL SELECTION				
	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-72.9	2,704	59.8	79.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-72.9			