

# Zone Checksums

By RLF

## Zone - 1-1-1

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 17					Mo/Hr: 7 / 18			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 87 / 78 / 132					OADB: 85			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
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	(%)			
<b>Envelope Loads</b>					<b>Envelope Loads</b>								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	51.6	112.1
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	78.5	67.6
Roof Cond	0	703	703	6	0	0	0	0	-305	5.67	Return	78.5	67.6
Glass Solar	341	0	341	3	373	5	373	0	0	0.00	Ret/OA	78.5	67.6
Glass/Door Cond	411	0	411	4	364	5	364	-1,049	-1,049	19.49	Fn MtrTD	0.0	0.0
Wall Cond	2,445	911	3,356	31	2,617	38	2,617	-1,204	-1,649	30.65	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0.00	-583	-583	10.83			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	1,238		1,238	11	232	3	232	-735	-735	13.67			
Sub Total ==>	4,434	1,614	6,049	56	3,586	52	3,586	-3,570	-4,320	80.32			
<b>Internal Loads</b>					<b>Internal Loads</b>								
Lights	500	125	625	6	500	7	500	0	0	0.00	<b>AIRFLOWS</b>		
People	3,600	0	3,600	33	2,000	29	2,000	0	0	0.00		Cooling	Heating
Misc	631	0	631	6	631	9	631	0	0	0.00	Diffuser	266	80
Sub Total ==>	4,732	125	4,857	45	3,132	45	3,132	0	0	0.00	Terminal	266	80
											Main Fan	266	80
<b>Ceiling Load</b>	252	-252	0	0	221	3	221	-172	0	0.00	Sec Fan	0	0
<b>Ventilation Load</b>	0	0	0	0	0	0	0	0	0	0.00	Nom Vent	0	0
<b>Adj Air Trans Heat</b>	0		0	0	0	0	0	0	0	0	AHU Vent	0	0
<b>Dehumid. Ov Sizing</b>			0	0							Infil	21	21
<b>Ov/Undr Sizing</b>	0		0	0	0	0	0				MinStop/Rh	80	80
<b>Exhaust Heat</b>		-80	-80	-1				Exhaust Heat	54	-1.01	Return	286	100
<b>Sup. Fan Heat</b>		0	0	0				OA Preheat Diff.	0	0.00	Exhaust	21	21
<b>Ret. Fan Heat</b>		0	0	0				RA Preheat Diff.	0	0.00	Rm Exh	0	0
<b>Duct Heat Pkup</b>		0	0	0				Additional Reheat	-1,427	26.53	Auxiliary	0	0
<b>Underflr Sup Ht Pkup</b>		0	0	0				System Plenum Heat	314	-5.84	Leakage Dwn	0	0
<b>Supply Air Leakage</b>		0	0	0				Underflr Sup Ht Pkup	0	0.00	Leakage Ups	0	0
								Supply Air Leakage	0	0.00			
<b>Grand Total ==&gt;</b>	9,418	1,407	10,825	100.00	6,938	100.00	6,938	-3,742	-5,379	100.00	<b>ENGINEERING CKS</b>		

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	gr/lb	°F	°F		ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.9	10.8	8.3	262	78.5	63.8	65.0	51.6	49.4	49.0	Floor	229		Main Htg	-5.4	80	51.6	112.1
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	36		Reheat	-1.6	80	51.6	70.0
<b>Total</b>	0.9	10.8									Roof	328	0	Humidif	0.0	0	0.0	0.0
											Wall	416	33	Opt Vent	0.0	0	0.0	0.0
											Ext Door	21	0	<b>Total</b>	-5.4			

By RLF

COOLING COIL PEAK					CLG SPACE PEAK		HEATING COIL PEAK			
Peaked at Time:		Mo/Hr: 8 / 17			Mo/Hr: 8 / 17		Mo/Hr: Heating Design			
Outside Air:		OADB/WB/HR: 86 / 78 / 131			OADB: 86		OADB: 38			
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)
<b>Envelope Loads</b>							<b>Envelope Loads</b>			
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	497	497	5	0	0	Roof Cond	0	-216	5.36
Glass Solar	1,985	0	1,985	18	1,985	27	Glass Solar	0	0	0.00
Glass/Door Cond	218	0	218	2	218	3	Glass/Door Cond	-590	-590	14.65
Wall Cond	2,681	1,097	3,778	35	2,681	37	Wall Cond	-569	-789	19.60
Partition/Door	0	0	0	0	0	0	Partition/Door	0	0	0.00
Floor	0	0	0	0	0.00	0	Floor	-289	-289	7.17
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	1,130	0	1,130	10	237	3	Infiltration	-690	-690	17.15
Sub Total ==>	6,015	1,594	7,609	70	5,122	70	Sub Total ==>	-2,137	-2,574	63.93
<b>Internal Loads</b>							<b>Internal Loads</b>			
Lights	470	117	587	5	470	6	Lights	0	0	0.00
People	2,700	0	2,700	25	1,500	20	People	0	0	0.00
Misc	0	0	0	0	0	0	Misc	0	0	0.00
Sub Total ==>	3,170	117	3,287	30	1,970	27	Sub Total ==>	0	0	0.00
Ceiling Load	229	-229	0	0	229	3	Ceiling Load	-161	0	0.00
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0.00
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	0	0	0	0	0	0	Exhaust Heat	51	-1.27	
Exhaust Heat	0	-73	-73	-1	0	0	OA Preheat Diff.	0	0.00	
Sup. Fan Heat	0	0	0	0	0	0	RA Preheat Diff.	0	0.00	
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	-1,506	37.40	
Duct Heat PkUp	0	0	0	0	0	0	System Plenum Heat	2	-0.06	
Underflr Sup Ht Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0.00	
Grand Total ==>	9,414	1,409	10,823	100.00	7,321	100.00	Grand Total ==>	-2,299	-4,026	100.00

TEMPERATURES		
	Cooling	Heating
SADB	51.6	94.5
Ra Plenum	78.4	67.6
Return	78.4	67.6
Ret/OA	78.4	67.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	280	84
Terminal	280	84
Main Fan	280	84
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	19	19
MinStop/Rh	84	84
Return	300	103
Exhaust	19	19
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.30	0.39
cfm/ton	310.91	
ft²/ton	238.38	
Btu/hr-ft²	50.34	-18.72
No. People	6	

COOLING COIL SELECTION											AREAS				HEATING COIL SELECTION				
	Total Capacity ton	Capacity 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	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	
Main Clg	0.9	10.8	8.7	280	78.4	63.7	65.0	51.6	50.4	52.6	Floor	215			Main Htg	-4.0	84	51.6	94.5
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	18			Reheat	-1.7	84	51.6	70.0
											Roof	232	0	0	Humidif	0.0	0	0.0	0.0
											Wall	216	33	15	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-4.0			
Total	0.9	10.8																	

# Zone Checksums

By RLF

## Zone - 1-1-3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 16					Mo/Hr: 7 / 15			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 88 / 78 / 133					OADB: 88			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
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	(%)			
<b>Envelope Loads</b>					<b>Envelope Loads</b>								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	51.6	111.1
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	78.8	67.6
Roof Cond	0	2,672	2,672	16	0	0	0	0	-1,045	15.33	Return	78.8	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	78.8	67.6
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	-323	-323	4.74			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	6,143	6,143	36	36	1,444	16	16	-3,554	-3,554	52.14			
Sub Total ==>	6,143	2,672	8,815	52	1,444	16	16	-3,876	-4,921	72.21			
<b>Internal Loads</b>					<b>Internal Loads</b>								
Lights	2,418	604	3,022	18	2,418	27	27	0	0	0.00			
People	4,500	0	4,500	26	2,500	28	28	0	0	0.00			
Misc	1,188	0	1,188	7	1,188	13	13	0	0	0.00			
Sub Total ==>	8,106	604	8,710	51	6,106	68	68	0	0	0.00			
Ceiling Load	1,325	-1,325	0	0	1,390	16	16	-829	0	0.00			
Ventilation Load	0	0	0	0	0	0	0	0	0	0.00			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	0	0	0.00			
Ov/Undr Sizing	0	0	0	0	0	0	0	0	263	-3.85			
Exhaust Heat	-420	-420	-2	-2	0	0	0	0	0	0.00			
Sup. Fan Heat	0	0	0	0	0	0	0	0	0	0.00			
Ret. Fan Heat	0	0	0	0	0	0	0	0	0	0.00			
Duct Heat Pkup	0	0	0	0	0	0	0	0	-1,838	26.98			
Underflr Sup Ht Pkup	0	0	0	0	0	0	0	0	-318	4.66			
Supply Air Leakage	0	0	0	0	0	0	0	0	0	0.00			
Grand Total ==>	15,574	1,531	17,105	100.00	8,939	100.00	100.00	-4,706	-6,815	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	342	103
Terminal	342	103
Main Fan	342	103
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	100	100
MinStop/Rh	103	103
Return	442	202
Exhaust	100	100
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.31	0.09
cfm/ton	240.21	
ft²/ton	776.54	
Btu/hr-ft²	15.45	-6.16
No. People	10	

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	1.4	17.1	10.4	338	78.8	63.9	65.0	51.6	45.7	36.3	Floor	1,107		Main Htg	-6.8	103	51.6	111.1
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	20		Reheat	-2.1	103	51.6	70.0
Total	1.4	17.1									Roof	1,123	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	-6.8			

By RLF

COOLING COIL PEAK					CLG SPACE PEAK		HEATING COIL PEAK			TEMPERATURES				
Peaked at Time:		Mo/Hr: 9 / 17			Mo/Hr: 9 / 17		Mo/Hr: Heating Design			Cooling			Heating	
Outside Air:		OADB/WB/HR: 84 / 76 / 125			OADB: 84		OADB: 38			SADB			51.6	94.7
										Ra Plenum			78.1	67.6
										Return			78.1	67.6
										Ret/OA			78.1	67.6
										Fn MtrTD			0.0	0.0
										Fn BldTD			0.0	0.0
										Fn Frict			0.0	0.0
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent				
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total				
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)				
Envelope Loads					Envelope Loads									
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	1,088	1,088	5	0	0	Roof Cond	0	-476	5.32				
Glass Solar	5,355	0	5,355	26	5,355	36	Glass Solar	0	0	0.00				
Glass/Door Cond	566	0	566	3	566	4	Glass/Door Cond	-1,769	-1,769	19.77				
Wall Cond	4,883	2,189	7,073	34	4,883	33	Wall Cond	-1,171	-1,666	18.62				
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00				
Floor	0		0	0	0.00	0	Floor	-649	-649	7.25				
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00				
Infiltration	1,845		1,845	9	367	2	Infiltration	-1,249	-1,249	13.95				
Sub Total ==>	12,649	3,277	15,926	77	11,171	74	Sub Total ==>	-4,838	-5,810	64.91				
Internal Loads					Internal Loads									
Lights	760	190	950	5	760	5	Lights	0	0	0.00				
People	2,700	0	2,700	13	1,500	10	People	0	0	0.00				
Misc	1,188	0	1,188	6	1,188	8	Misc	0	0	0.00				
Sub Total ==>	4,648	190	4,838	23	3,448	23	Sub Total ==>	0	0	0.00				
Ceiling Load					Ceiling Load									
Ventilation Load	383	-383	0	0	383	3	Ventilation Load	-291	0	0.00				
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0.00				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		92	-1.03				
Exhaust Heat		-121	-121	-1			OA Preheat Diff.		0	0.00				
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00				
Ret. Fan Heat		0	0	0			Additional Reheat		-3,330	37.21				
Duct Heat Pkup		0	0	0			System Plenum Heat		98	-1.09				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00				
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00				
Grand Total ==>	17,681	2,962	20,643	100.00	15,002	100.00	Grand Total ==>	-5,129	-8,950	100.00				
											AIRFLOWS			
											Cooling	Heating		
Diffuser											575	186		
Terminal											575	186		
Main Fan											575	186		
Sec Fan											0	0		
Nom Vent											0	0		
AHU Vent											0	0		
Infil											35	35		
MinStop/Rh											186	186		
Return											610	221		
Exhaust											35	35		
Rm Exh											0	0		
Auxiliary											0	0		
Leakage Dwn											0	0		
Leakage Ups											0	0		
											ENGINEERING CKS			
											Cooling	Heating		
% OA											0.0	0.0		
cfm/ft²											1.48	0.48		
cfm/ton											334.05			
ft²/ton											226.13			
Btu/hr-ft²											53.07			

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	1.7	20.6	18.0	575	78.1	63.6	65.0	51.6	51.3	56.0	Floor	389			Main Htg	-9.0	186	51.6	94.7
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	41			Reheat	-3.8	186	51.6	70.0
											Roof	512	0	0	Humidif	0.0	0	0.0	0.0
											Wall	487	99	20	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-9.0			
Total	1.7	20.6																	

# Zone Checksums

By RLF

## Zone - 1-2-1

COOLING COIL PEAK					CLG SPACE PEAK		HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 10 / 14					Mo/Hr: 11 / 14		Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 82 / 72 / 102					OADB: 75		OADB: 38					
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			
Envelope Loads					Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0	0	0.00	SADB	Cooling	Heating
Skylite Cond	0	0	0	0	0	0	0	0	0.00	Ra Plenum	51.6	95.7
Roof Cond	0	1,480	1,480	7	0	0	0	-518	6.34	Return	78.6	67.6
Glass Solar	1,405	0	1,405	7	1,830	13	0	0	0.00	Ret/OA	78.6	67.6
Glass/Door Cond	121	0	121	1	-10	0	-590	-590	7.22	Fn MtrTD	0.0	0.0
Wall Cond	6,589	2,352	8,940	43	7,147	50	-1,479	-1,980	24.23	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	-657	-657	8.04			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Infiltration	1,545	1,545	7	7	-5	0	-1,650	-1,650	20.19			
Sub Total ==>	9,659	3,832	13,491	64	8,962	63	-4,375	-5,395	66.02			
Internal Loads					Internal Loads							
Lights	1,123	281	1,403	7	1,123	8	0	0	0.00			
People	5,400	0	5,400	26	3,000	21	0	0	0.00			
Misc	717	0	717	3	717	5	0	0	0.00			
Sub Total ==>	7,239	281	7,520	36	4,839	34	0	0	0.00			
Ceiling Load	578	-578	0	0	508	4	-385	0	0.00			
Ventilation Load	0	0	0	0	0	0	0	0	0.00			
Adj Air Trans Heat	0	0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing			0	0			0	0	0.00			
Ov/Undr Sizing	140		140	1	0	0	Exhaust Heat	122	-1.49			
Exhaust Heat		-183	-183	-1			OA Preheat Diff.	0	0.00			
Sup. Fan Heat		0	0	0			RA Preheat Diff.	0	0.00			
Ret. Fan Heat		0	0	0			Additional Reheat	-2,973	36.39			
Duct Heat Pkup		0	0	0			System Plenum Heat	75	-0.91			
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 ==>	17,617	3,352	20,968	100.00	14,309	100.00	Grand Total ==>	-4,761	-8,172	100.00		

AIRFLOWS		
	Cooling	Heating
Diffuser	548	166
Terminal	548	166
Main Fan	548	166
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	46	46
MinStop/Rh	166	166
Return	594	212
Exhaust	46	46
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.07	0.32
cfm/ton	313.68	
ft²/ton	294.16	
Btu/hr-ft²	40.79	-15.90
No. People	12	

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	1.8	21.0	17.4	537	78.6	63.8	65.0	51.6	50.3	52.2	Floor	514		Main Htg	-8.2	166	51.6	95.7	
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	41		Reheat	-3.4	166	51.6	70.0	
											Roof	557	0	Humidif	0.0	0	0.0	0.0	
											Wall	492	33	Opt Vent	0.0	0	0.0	0.0	
											Ext Door	0	0	Total	-8.2				
Total	1.8	21.0																	

## By RLF

COOLING COIL PEAK					CLG SPACE PEAK		HEATING COIL PEAK					TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 17			Mo/Hr: 7 / 18		Mo/Hr: Heating Design					Cooling		Heating	
Outside Air:		OADB/WB/HR: 87 / 78 / 132			OADB: 85		OADB: 38					SADB		51.6	132.6
												Ra Plenum		78.5	67.6
												Return		78.5	67.6
												Ret/OA		78.5	67.6
												Fn MtrTD		0.0	0.0
												Fn BldTD		0.0	0.0
												Fn Frict		0.0	0.0
	Space	Plenum	Net	Percent	Space	Percent		Space Peak	Coil Peak	Percent					
	Sens. + Lat.	Sens. + Lat	Total	Of Total	Sensible	Of Total		Space Sens	Tot Sens	Of Total					
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)		Btu/h	Btu/h	(%)					
Envelope Loads					Envelope Loads										
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	572	572	9	0	0	Roof Cond	0	-274	6.19					
Glass Solar	682	0	682	10	745	18	Glass Solar	0	0	0.00					
Glass/Door Cond	460	0	460	7	407	10	Glass/Door Cond	-1,179	-1,179	26.67					
Wall Cond	1,001	425	1,427	22	1,102	26	Wall Cond	-749	-1,069	24.18					
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00					
Floor	0		0	0	0.00	0	Floor	-420	-420	9.50					
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00					
Infiltration	1,459		1,459	22	273	6	Infiltration	-867	-867	19.60					
Sub Total ==>	3,602	997	4,599	71	2,528	59	Sub Total ==>	-3,215	-3,809	86.12					
Internal Loads					Internal Loads										
Lights	590	147	737	11	590	14	Lights	0	0	0.00					
People	900	0	900	14	500	12	People	0	0	0.00					
Misc	375	0	375	6	375	9	Misc	0	0	0.00					
Sub Total ==>	1,865	147	2,013	31	1,465	34	Sub Total ==>	0	0	0.00					
Ceiling Load					Ceiling Load										
Ventilation Load	0	-298	0	0	260	6	Ventilation Load	-202	0	0.00					
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0.00					
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	0	0	0.00					
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat		64	-1.45					
Exhaust Heat		-94	-94	-1			OA Preheat Diff.		0	0.00					
Sup. Fan Heat			0	0			RA Preheat Diff.		0	0.00					
Ret. Fan Heat		0	0	0			Additional Reheat		-877	19.82					
Duct Heat Pkup		0	0	0			System Plenum Heat		199	-4.49					
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup		0	0.00					
Supply Air Leakage		0	0	0			Supply Air Leakage		0	0.00					
Grand Total ==>					Grand Total ==>										
	5,765	753	6,518	100.00	4,253	100.00	Grand Total ==>	-3,417	-4,423	100.00					

AIRFLOWS		
	Cooling	Heating
Diffuser	163	49
Terminal	163	49
Main Fan	163	49
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	24	24
MinStop/Rh	49	49
Return	187	73
Exhaust	24	24
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.60	0.18
cfm/ton</		

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	0.5	6.5	5.0	162	78.5	63.8	65.0	51.6	49.8	50.3	Floor	270			Main Htg	-4.4	49	51.6	132.6
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
Total	0.5	6.5									ExFlr	26			Reheat	-1.0	49	51.6	70.0
											Roof	294	0	0	Humidif	0.0	0	0.0	0.0
											Wall	315	66	21	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-4.4			

# Zone Checksums

By RLF

## Zone - 1-2-3

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 17					Mo/Hr: 7 / 18			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 87 / 78 / 132					OADB: 85			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
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	(%)			
<b>Envelope Loads</b>					<b>Envelope Loads</b>								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	51.6	135.9
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	78.5	67.6
Roof Cond	0	451	451	8	0	0	0	0	-216	5.68	Return	78.5	67.6
Glass Solar	341	0	341	6	373	11	0	0	0	0.00	Ret/OA	78.5	67.6
Glass/Door Cond	411	0	411	8	364	11	0	-1,049	-1,049	27.61	Fn MtrTD	0.0	0.0
Wall Cond	848	357	1,205	22	933	27	0	-634	-903	23.78	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	-440	-440	11.59			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	1,155		1,155	22	216	6	0	-686	-686	18.06			
Sub Total ==>	2,754	808	3,562	66	1,886	55	0	-2,809	-3,293	86.72			
<b>Internal Loads</b>					<b>Internal Loads</b>								
Lights	467	117	583	11	467	13	0	0	0	0.00	<b>AIRFLOWS</b>		
People	900	0	900	17	500	14	0	0	0	0.00		Cooling	Heating
Misc	399	0	399	7	399	12	0	0	0	0.00	Diffuser	132	40
Sub Total ==>	1,766	117	1,883	35	1,366	40	0	0	0	0.00	Terminal	132	40
											Main Fan	132	40
<b>Ceiling Load</b>	235	-235	0	0	206	6	<b>Ceiling Load</b>	-160	0	0.00	Sec Fan	0	0
<b>Ventilation Load</b>	0	0	0	0	0	0	<b>Ventilation Load</b>	0	0	0.00	Nom Vent	0	0
<b>Adj Air Trans Heat</b>	0		0	0	0	0	<b>Adj Air Trans Heat</b>	0	0	0	AHU Vent	0	0
<b>Dehumid. Ov Sizing</b>			0	0			<b>Ov/Undr Sizing</b>	0	0	0.00	Infil	19	19
<b>Ov/Undr Sizing</b>	0		0	0	0	0	<b>Exhaust Heat</b>		51	-1.33	MinStop/Rh	40	40
<b>Exhaust Heat</b>		-75	-75	-1			<b>OA Preheat Diff.</b>		0	0.00	Return	152	60
<b>Sup. Fan Heat</b>			0	0			<b>RA Preheat Diff.</b>		0	0.00	Exhaust	19	19
<b>Ret. Fan Heat</b>			0	0			<b>Additional Reheat</b>		-723	19.03	Rm Exh	0	0
<b>Duct Heat Pkup</b>			0	0			<b>System Plenum Heat</b>		168	-4.42	Auxiliary	0	0
<b>Underflr Sup Ht Pkup</b>			0	0			<b>Underflr Sup Ht Pkup</b>		0	0.00	Leakage Dwn	0	0
<b>Supply Air Leakage</b>			0	0			<b>Supply Air Leakage</b>		0	0.00	Leakage Ups	0	0
<b>Grand Total ==&gt;</b>	4,755	615	5,370	100.00	3,458	100.00	<b>Grand Total ==&gt;</b>	-2,969	-3,798	100.00	<b>ENGINEERING CKS</b>		

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	°F	°F	°F	°F	gr/lb	°F	°F		ft²	(%)		MBh	cfm	°F	°F	
Main Clg	0.5	5.4	4.1	132	78.5	63.8	65.0	51.6	49.7	214				-3.8	40	51.6	135.9	
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	
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	
										28				-0.8	40	51.6	70.0	
Total	0.5	5.4								232	0	0		0.0	0	0.0	0.0	
										243	33	14		Humidif	0	0.0	0.0	
										21	0	0		Opt Vent	0	0.0	0.0	
														Total	-3.8			

# Zone Checksums

By RLF

## Zone - 1-2-4

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 7 / 15					Mo/Hr: 7 / 15			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 88 / 78 / 129					OADB: 88			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
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	(%)			
<b>Envelope Loads</b>					<b>Envelope Loads</b>								
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00		
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00		
Roof Cond	0	1,307	1,307	13	0	0	0	Roof Cond	0	-473	14.65		
Glass Solar	0	0	0	0	0	0	0	Glass Solar	0	0	0.00		
Glass/Door Cond	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00		
Wall Cond	0	0	0	0	0	0	0	Wall Cond	0	0	0.00		
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00		
Floor	0	0	0	0	0.00	0	0	Floor	0	0	0.00		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00		
Infiltration	2,493		2,493	25	610	10	10	Infiltration	-1,502	-1,502	46.58		
Sub Total ==>	2,493	1,307	3,800	38	610	10	10	Sub Total ==>	-1,502	-1,975	61.23		
<b>Internal Loads</b>					<b>Internal Loads</b>								
Lights	1,022	256	1,278	13	1,022	18	18	Lights	0	0	0.00		
People	3,600	0	3,600	36	2,000	34	34	People	0	0	0.00		
Misc	1,597	0	1,597	16	1,597	27	27	Misc	0	0	0.00		
Sub Total ==>	6,220	256	6,475	64	4,620	79	79	Sub Total ==>	0	0	0.00		
Ceiling Load	588	-588	0	0	588	10	10	Ceiling Load	-351	0	0.00		
Ventilation Load	0	0	0	0	0	0	0	Ventilation Load	0	0	0.00		
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0		
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	0	0	0.00		
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		111	-3.44		
Exhaust Heat		-186	-186	-2				OA Preheat Diff.		0	0.00		
Sup. Fan Heat			0	0				RA Preheat Diff.		0	0.00		
Ret. Fan Heat		0	0	0				Additional Reheat		-1,196	37.09		
Duct Heat Pkup		0	0	0				System Plenum Heat		-165	5.12		
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup		0	0.00		
Supply Air Leakage		0	0	0				Supply Air Leakage		0	0.00		
Grand Total ==>	9,300	789	10,089	100.00	5,818	100.00	100.00	Grand Total ==>	-1,853	-3,226	100.00		

AIRFLOWS		
	Cooling	Heating
Diffuser	223	67
Terminal	223	67
Main Fan	223	67
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	42	42
MinStop/Rh	67	67
Return	265	109
Exhaust	42	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.48	0.14
cfm/ton	265.05	
ft²/ton	556.64	
Btu/hr-ft²	21.56	-6.89
No. People	8	

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	0.8	10.1	6.6	223	79.0	63.9	65.0	51.6	48.0	44.1	Floor	468		Main Htg	-3.2	67	51.6	94.9	
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		Reheat	-1.4	67	51.6	70.0	
											Roof	508	0	0	Humidif	0.0	0	0.0	0.0
											Wall	0	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	0	Total	-3.2			
Total	0.8	10.1																	



# Zone Checksums

By RLF

## Zone - 1-2-5

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 8 / 15					Mo/Hr: 9 / 15			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 87 / 78 / 129					OADB: 86			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
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	(%)			
<b>Envelope Loads</b>					<b>Envelope Loads</b>								
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0.00		
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0.00		
Roof Cond	0	2,411	2,411	9	0	0	0	Roof Cond	0	-834	9.93		
Glass Solar	340	0	340	1	598	3	0	Glass Solar	0	0	0.00		
Glass/Door Cond	119	0	119	0	104	1	0	Glass/Door Cond	-295	-295	3.51		
Wall Cond	374	178	552	2	512	3	0	Wall Cond	-145	-212	2.53		
Partition/Door	0	0	0	0	0	0	0	Partition/Door	0	0	0.00		
Floor	0	0	0	0	0.00	0	0	Floor	-88	-88	1.05		
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	Adjacent Floor	0.00	0.00	0.00		
Infiltration	4,153		4,153	16	862	4	0	Infiltration	-2,532	-2,532	30.16		
Sub Total ==>	4,985	2,589	7,574	30	2,076	11	0	Sub Total ==>	-3,060	-3,961	47.18		
<b>Internal Loads</b>					<b>Internal Loads</b>								
Lights	1,722	431	2,153	8	1,722	9	0	Lights	0	0	0.00		
People	2,700	0	2,700	11	1,500	8	0	People	0	0	0.00		
Misc	13,505	0	13,505	53	13,505	68	0	Misc	0	0	0.00		
Sub Total ==>	17,928	431	18,358	72	16,728	85	0	Sub Total ==>	0	0	0.00		
Ceiling Load	978	-978	0	0	935	5	0	Ceiling Load	-591	0	0.00		
Ventilation Load	0	0	0	0	0	0	0	Ventilation Load	0	0	0.00		
Adj Air Trans Heat	0		0	0	0	0	0	Adj Air Trans Heat	0	0	0		
Dehumid. Ov Sizing			0	0			0	Ov/Undr Sizing	0	0	0.00		
Ov/Undr Sizing	0		0	0	0	0	0	Exhaust Heat		187	-2.23		
Exhaust Heat		-310	-310	-1			0	OA Preheat Diff.		0	0.00		
Sup. Fan Heat			0	0			0	RA Preheat Diff.		0	0.00		
Ret. Fan Heat		0	0	0			0	Additional Reheat		-4,134	49.26		
Duct Heat Pkup		0	0	0			0	System Plenum Heat		-486	5.79		
Underflr Sup Ht Pkup			0	0			0	Underflr Sup Ht Pkup		0	0.00		
Supply Air Leakage		0	0	0			0	Supply Air Leakage		0	0.00		
Grand Total ==>	23,891	1,731	25,622	100.00	19,739	100.00	0	Grand Total ==>	-3,650	-8,394	100.00		

	Cooling	Heating
SADB	51.6	84.2
Ra Plenum	78.9	67.6
Return	78.9	67.6
Ret/OA	78.9	67.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS		
	Cooling	Heating
Diffuser	756	231
Terminal	756	231
Main Fan	756	231
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	71	71
MinStop/Rh	231	231
Return	827	302
Exhaust	71	71
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.96	0.29
cfm/ton	354.12	
ft²/ton	369.32	
Btu/hr-ft²	32.49	-10.64
No. People	6	

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	2.1	25.6	21.3	748	78.9	63.9	65.0	51.6	51.5	56.7	Floor	789							
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							
											ExFlr	6							
											Roof	896	0	0					
											Wall	66	16	25					
											Ext Door	0	0	0					
Total	2.1	25.6																	
										</									

# Zone Checksums

By RLF

## Zone - 1-2-6

COOLING COIL PEAK					CLG SPACE PEAK			HEATING COIL PEAK			TEMPERATURES		
Peaked at Time: Mo/Hr: 9 / 14					Mo/Hr: 9 / 14			Mo/Hr: Heating Design					
Outside Air: OADB/WB/HR: 86 / 76 / 120					OADB: 86			OADB: 38					
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total	Percent Of Total		Space Sensible	Percent Of Total		Space Peak	Coil Peak	Percent		Cooling	Heating
Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Space Sens	Tot Sens	Of Total			
Envelope Loads					Envelope Loads								
Skylite Solar	0	0	0	0	0	0	0	0	0	0.00	SADB	51.6	130.2
Skylite Cond	0	0	0	0	0	0	0	0	0	0.00	Ra Plenum	78.8	67.6
Roof Cond	0	840	840	14	0	0	0	0	-275	7.07	Return	78.8	67.6
Glass Solar	0	0	0	0	0	0	0	0	0	0.00	Ret/OA	78.8	67.6
Glass/Door Cond	308	0	308	5	308	9	0	-918	-918	23.62	Fn MtrTD	0.0	0.0
Wall Cond	1,157	473	1,629	27	1,157	32	0	-541	-766	19.70	Fn BldTD	0.0	0.0
Partition/Door	0	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0
Floor	0	0	0	0	0.00	0	0	-440	-440	11.33			
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00			
Infiltration	1,223		1,223	21	286	8	0	-872	-872	22.45			
Sub Total ==>	2,688	1,313	4,001	67	1,751	49	0	-2,772	-3,270	84.17			
Internal Loads					Internal Loads								
Lights	593	148	742	12	593	17	0	0	0	0.00			
People	900	0	900	15	500	14	0	0	0	0.00			
Misc	399	0	399	7	399	11	0	0	0	0.00			
Sub Total ==>	1,893	148	2,041	34	1,493	42	0	0	0	0.00			
Ceiling Load	328	-328	0	0	328	9	0	-204	0	0.00			
Ventilation Load	0	0	0	0	0	0	0	0	0	0.00			
Adj Air Trans Heat	0		0	0	0	0	0	0	0	0			
Dehumid. Ov Sizing			0	0			0	0	0	0.00			
Ov/Undr Sizing	0		0	0	0	0	0	0	64	-1.66			
Exhaust Heat		-104	-104	-2			0	0	0	0.00			
Sup. Fan Heat			0	0			0	0	0	0.00			
Ret. Fan Heat		0	0	0			0	0	0	0.00			
Duct Heat Pkup		0	0	0			0	0	-793	20.42			
Underflr Sup Ht Pkup			0	0			0	0	114	-2.93			
Supply Air Leakage		0	0	0			0	0	0	0.00			
Grand Total ==>	4,909	1,029	5,938	100.00	3,572	100.00	Grand Total ==>	-2,975	-3,885	100.00			

AIRFLOWS		
	Cooling	Heating
Diffuser	137	44
Terminal	137	44
Main Fan	137	44
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	24	24
MinStop/Rh	44	44
Return	161	69
Exhaust	24	24
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS		
	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.50	0.16
cfm/ton	276.50	
ft²/ton	548.96	
Btu/hr-ft²	21.86	-14.30
No. People	2	

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	0.5	5.9	4.6	137	78.8	63.9	65.0	51.6	48.7	46.5	Floor	272		Main Htg	-3.9	44	51.6	130.2
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
											ExFlr	28		Reheat	-0.9	44	51.6	70.0
Total	0.5	5.9									Roof	295	0	Humidif	0.0	0	0.0	0.0
											Wall	178	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	42	0	Total	-3.9			