## System Checksums By RLF

Bypass VAV AHU

	COOLING C	OIL PEAK			CLG SPACE	PEAK		HEATING CO	OIL PEAK	
	d at Time: utside Air:	Mo/H OADB/WB/Hi	Ir: 6 / 16 R: 94 / 75 / 9	99	Mo/Hr: OADB:			Mo/Hr: H OADB: 3	eating Design 8	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	· · · · · ·	Space Peak Space Sens	Coil Peak Tot Sens	
	Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	· ·	Btu/h	Btu/h	(%)
Envelope Loads							Envelope Loads			
Skylite Solar	0	0	0	0 :	0	0	,	0	0	0.00
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00
Roof Cond	0	11,229	11,229	24	0	0	Roof Cond	0	-2,739	9.18
Glass Solar	3,773	0	3,773	8	3,980	12	Glass Solar	0	0	0.00
Glass/Door Cond	2,089	0	2,089	4:	1,937	6		-3,294	-3,294	11.04
Wall Cond	2,296	648	2,944	6:	2,694	8	; Wall Cond	-3,086	-3,870	12.98
Partition/Door	11,122		11,122	24	11,281	35	Partition/Door	-12,264	-12,264	41.11
Floor	0		0	0 :	0.00	0	Floor	-613	-613	2.06
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	0		0	0	0	0	Infiltration	0	0	0.00
Sub Total ==>	19,280	11,877	31,157	66	19,892	62	Sub Total ==>	-19,257	-22,780	76.37
Internal Loads							Internal Loads			
Lights	2,796	699	3,495	7:	2,796	9	Lights	0	0	0.00
People	4,500	0	4,500	10	2,500	8	People	0	0	0.00
Misc	5,188	0	5,188	11	5,188	16	Misc	0	0	0.00
Sub Total ==>	12,484	699	13,183	28	10,484	33	Sub Total ==>	0	0	0.00
Ceiling Load	1,974	-1,974	0	0	1,745	5	Ceiling Load	-3,426	0	0.00
Ventilation Load	0	0	3,106	7	, 0	0	Ventilation Load	0	-2,184	7.32
Adj Air Trans Heat	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	Exhaust Heat		721	-2.42
Exhaust Heat	· ·	-415	-415	-1	· ·	·	OA Preheat Diff.		0	0.00
Sup. Fan Heat		ŕ	0	0			RA Preheat Diff.		0	0.00
Ret. Fan Heat		0	0	0			Additional Reheat		-5,585	18.72
Duct Heat Pkup		Ö	0	0					2,300	
Underfir Sup Ht Pku	ıp		0	0:			Underfir Sup Ht Pkup		0	0.00
Supply Air Leakage	•	0	0	0			Supply Air Leakage		0	0.00
Grand Total ==>	33,738	10,187	47,031	100.00	32,122	100.00	Grand Total ==>	-22,683	-29,828	100.00

TEMPERATURES						
	Cooling	Heating				
SADB	55.1	70.0				
Ra Plenum	81.1	59.4				
Return	81.1	59.4				
Ret/OA	81.7	58.5				
Fn MtrTD	0.0	0.0				
Fn BldTD	0.0	0.0				
Fn Frict	0.0	0.0				

AIRFLOWS								
Cooling Heating								
Diffuser	1,453	439						
Terminal Main Fan	1,453 1,453	439 1,462						
Sec Fan	0	0						
Nom Vent	61	61						
AHU Vent	61	61						
Infil	0	0						
MinStop/Rh	439	439						
Return	1,453	1,453						
Exhaust	61	61						
Rm Exh	0	0						
Auxiliary	0	0						
Leakage Dwn	0	0						
Leakage Ups	0	0						

ENGINEERING CKS						
Cooling Heating						
% OA	4.2	4.2				
cfm/ft <sup>2</sup>	1.42	1.42				
cfm/ton	370.73					
ft²/ton	261.28					
Btu/hr·ft²	45.93	-29.24				
No. People	10					

			COOLING	COIL SEL	ECTIC	N				
	<b>Total (</b> ton	Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	<b>Ent</b> °F	er DB/W	<b>'B/HR</b> gr/lb	<b>Lea</b> °F		<b>/WB/HR</b> gr/lb
Main Clg	3.9	47.0	43.3	1,436	81.7	63.5	59.0	55.1	52.3	54.2
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	3.9	47.0								

	AREA	S	
Gro	ss Total	Glass ft <sup>2</sup>	s (%)
		11	(70)
Floor	1,024		
Part	1,444		
Int Door	0		
ExFlr	38		
Roof	1,024	0	0
Wall	427	100	23
Ext Door	24	0	0

HEATING COIL SELECTION								
	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F				
Main Htg	-29.9	0	0.0	0.0				
Aux Htg	0.0	0	0.0	0.0				
Preheat	0.0	0	0.0	0.0				
Reheat	-7.3	439	55.1	70.0				
Humidif	0.0	0	0.0	0.0				
Opt Vent	0.0	0	0.0	0.0				
Total	-29.9							

Project Name: 22257 UCF B016A F&S Bldg Dept Reno

Dataset Name: 22257.trc