BUILDING ENVELOPE HEATING LOADS

at Space Peak

By RLF

Alternative 1

	Ī	WALL					WINDOW					
		Plenum	Plenum	Space	Space	Space	Plenum		Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD	Solar	Solar	Solar	Conduction	CLTD	Conduction	CLTD
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
174E-OFFICE	Zn Tot/Ave	-300	-21.4	-1,484	-32.0	0	0	0.000	-305	-31.8	0	0.0
175A-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175B-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175C-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
175D-OFFICE	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
174-ENTRY/RECEPTION	Zn Tot/Ave	-396	-21.4	-1,078	-32.0	0	0	0.000	-2,989	-30.9	0	0.0
175-ELEC	Zn Tot/Ave	-88	-21.4	-524	-32.0	0	0	0.000	0	0.0	0	0.0
174F-CORRIDOR	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
AHU	Sys Tot/Ave	-784	-21.4	-3,086	-32.0	0	0	0.000	-3,294	-31.0	0	0.0
AHU	Sys Block	-787	-21.4	-3,082	-32.0	0	0	0.000	-3,294	-31.0	0	0.0

				SKYLIGHT —								
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space	Plenum	Space		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Solar	Solar		Load	CLTD	Load	CLTD
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
174E-OFFICE	Zn Tot/Ave	-420	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
175A-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
175B-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
175C-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
175D-OFFICE	Zn Tot/Ave	-214	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
174-ENTRY/RECEPTION	Zn Tot/Ave	-634	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
175-ELEC	Zn Tot/Ave	-123	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
174F-CORRIDOR	Zn Tot/Ave	-706	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
AHU	Sys Tot/Ave	-2,739	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0
AHU	Svs Block	-2.739	-21.4	0	-32.0	0	0	0.000	0	0.0	0	0.0

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

Dataset Name: 22257.trc

BUILDING ENVELOPE HEATING LOADS

at Space Peak

By RLF

		FLO	OR	PART	PARTITION		ration —	CEILING			
								Plenum		Envelope	
		Load	CLTD	Load	CLTD	Airflow	Sensible	Dry Bulb Temp	Load	Total	
System Zone Room		Btu/h	°F	Btu/h	°F	cfm	Btu/h	°F	Btu/h	Btu/h	
174E-OFFICE	Zn Tot/Ave	-232	-32.0	-1,020	-20.0	0	0	59.4	-525	-4,286	
175A-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4	-268	-1,220	
175B-OFFICE	Zn Tot/Ave	0	0.0	-732	-20.0	0	0	59.4	-268	-1,213	
175C-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4	-268	-1,220	
175D-OFFICE	Zn Tot/Ave	0	0.0	-739	-20.0	0	0	59.4	-268	-1,220	
174-ENTRY/RECEPTION	Zn Tot/Ave	-306	-32.0	-2,504	-20.0	0	0	59.4	-793	-8,700	
175-ELEC	Zn Tot/Ave	-75	-32.0	-1,657	-32.0	0	0	59.4	-154	-2,621	
174F-CORRIDOR	Zn Tot/Ave	0	0.0	-4,136	-20.0	0	0	59.4	-883	-5,725	
AHU	Sys Tot/Ave	-613	-32.0	-12,264	-21.1	0	0	59.4	-3,426	-26,206	
AHU	Sys Block	-613	-32.0	-12,264	-21.1	0	0	59.4	-3,426	-26,205	

		SU	PPLY AIR TE	MPERATURE	S AIRFLOW	s —		CONDUCTIO	N / LOSSES		
UNDER FLOOR		Supply Airflow into Uflr Plen	Uflr Plen Air Leakage To Space	Supply Tem Entering Uflr Plen	perature Leaving Uflr Plen	Uflr Plenum Air Heat Pickup	Conduction From Adj Ceiling Plen	Conduction From Adj Ceiling No Plen	Conduction From Exp Floor Slab	Conduction From Ext Wall	Conduction Into Space
System Zone Room		cfm	cfm	°F	°F	°F	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
174E-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175A-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175B-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175C-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175D-OFFICE	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
174-ENTRY/RECEPTION	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
175-ELEC	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
174F-CORRIDOR	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
AHU	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
AHU	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0

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