
TECHNICAL REPORT TWO

National Law Enforcement Museum – Washington, D.C.

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EXECUTIVE SUMMARY

This technical report analyzes the building energy loads for the National Law Enforcement Museum in Washington, DC. It utilizes Trane Trace 700 as both an energy and load modeling tool to determine whether the thesis model meets the criteria established by the engineers in their building model.

The first portion of this report analyzes the building load. It details the sources of all the various input required in building modeling including weather data, occupancy types, and building materials. This section also shows the output of the load model and its comparison to the engineer's calculations. It is concluded that the thesis model is lacking in the precision pursued by the engineer's model and therefore leads to lower results.

Finally, this report discusses the energy use within the building including its cost per square foot. The Trace 700 model is again used as the engineer's energy model was not completed. This does not allow for comparison between the two models, but following the trend from the earlier section, it can be assume that this model also needs to be further perfected and analyzed in order for the author to suggest more energy efficient strategies for the museum.

PROJECT BACKGROUND

The National Law Enforcement Museum is a 54,000 SF museum will be located in Washington, D.C. between 4th and 5th Street on E Street NW. This structure will complement the Law Enforcement Officer's Memorial and complete the overall aesthetics of the Courthouse Complex of Judiciary Square.

The defining architectural element of the structure are the two glass pavilions that function as the entrance to the museum. Upon entry, the guests will be lead via escalator to the two museum floors. The museum will hold a ticketing area, exhibit space, a research space, café, gift shop and a theater. The third floor below ground will be contain the central plant and utility connections for the structure.

This \$50 million dollar project is expected to take 28 months of construction beginning June 2014 and ending September 2015. The contract is set up as a Design-Bid-Build. The Architects and Owners worked together to develop the building design. Following this the Engineers, Consultants and Construction Manager were hired. Finally, the project was bid out to specific subcontractors.

The historical location of the project required cooperation and approval of a number of historical and zoning associations such as the US Commission of Fine Arts, the DC Preservation Review Board and others. The building design is also pursuing LEED© Silver status and preparing to meet compliance with the Section 106 Review as an extra Environmental Assessment.

MECHANICAL SYSTEM OVERVIEW

The museum is designed to be supplied by six air handling units (AHUs) located in various areas and supplying the multiple spaces in the building. Two 5000 CFM AHUs are specifically assigned to the East and West pavilions, another two 33000 CFM air handling units are situated to serve the exhibit area. Two 4000 CFM units serve the theater and the central plant area. The building is cooled using a combination of a chiller and two cooling towers. The water cooled system is the heat sink for the air handling units. A heat exchanger is also part of the system to support partial or complete free-cooling should the building conditions meet certain criteria.

Air is supplied from the air handling units at a temperature ranging from 50-56 degrees Fahrenheit and then ducted to variable air volume units. The air supply system is separated into three major components: the East & West pavilions, the exhibit areas, and the theater. The theater air handling unit varies its supply to the space with a variable frequency drive at the AHU. Heating in the building is supplied with electric heat at the air handling units and electric reheat at the VAV boxes. Air is returned using a return air plenum for each area and then ducted to be mixed with outside air intakes. Fifteen fan coil units are also used to supplement minor areas such as the café, gift shop and research center.

The entire system is controlled by a direct digital control (DDC) building automation system (BAS). The entry pavilions, theater, and exhibit space each have different control algorithms within the BAS. This control system will use the inputs from various carbon dioxide, oxygen and occupancy sensors. The occupancy schedule is set by the owner with the engineers confirming this with site visits in the one year after construction. Temperature sensors are located within the space and input information to the variable air volume boxes to supply adequate heating or cooling to the spaces. Humidity is maintained at the air handling units from information received by humidity sensors within the return ductwork.

DESIGN LOAD ESTIMATION

Both the design load and the energy load for NLEM are calculated for this report using Trane Trace 700©. Several input are required for this calculation and are detailed in the following sections. This analysis is important to the overall understanding of the building because it builds the foundation of energy use. Mechanical systems are the largest consumer of energy in any building.

Calculating the load in the structure requires multiple sources of information. This includes weather criteria, building temperature & humidity requirements, building schedules, the estimated occupancy and the occupancy type of all the spaces.

MODEL INPUT

ROOM SCHEDULE

WHEN USING TRACE 700, THE ROOMS OF THE BUILDING AND LOAD. THE ROOMS AND THEIR INPUT DATA CAN BE FOUND IN

Appendix A – Room Schedule. This details the room name, number, area, level and whether it is an interior or exterior space. It also includes the system designation of each room, its occupancy classification, lighting power density, and which load template was used in Trace 700© for internal load, airflow and thermostat settings.

WEATHER DATA

The National Law Enforcement Museum is located in Washington, DC. Therefore, that ASHRAE weather file was used. The winter design uses the 99.6% for winter and the 0.4% dry bulb temperature for summer. This is different from the engineer's calculation because they have their own weather file composed of an average of previous weather conditions. Table 1 displays the variations between the input temperatures.

Table 1 - Modeling weather data input variations

	Thesis Input	Engineer's Input
<i>Summer Design Dry Bulb</i>	93.2 F	91.9 F
<i>Summer Design Wet Bulb</i>	75.1 F	75.3 F
<i>Winter Design Dry Bulb</i>	9.6 F	15.9 F

OUTDOOR AIR VENTILATION RATES

The mechanical design narrative provided by the MEP Engineers, Loring Consulting Engineers, specifies ventilation rates for general office space, assembly areas, and the museum. There are also design occupancies for the main spaces of the auditorium, hall of remembrance, atrium, exhibits and other areas. The specific inputs are outlined in Table 2 and Table 3.

Table 2 - Design input for outdoor air ventilation rates

Outside Air Ventilation	CFM/Person	CFM/SF
<i>General Office</i>	5	0.06
<i>Assembly Area</i>	5	0.06
<i>Museum</i>	7.5	0.06

Table 3 - Design input for space occupancies

Assumed Occupancy	Persons
<i>Auditorium</i>	120
<i>Hall of Remembrance</i>	110
<i>Atrium</i>	100
<i>Exhibits</i>	440
<i>Other Area</i>	45

ENVELOPE, LIGHTING & POWER LOADS

Further load criteria are required to complete the load and energy models. These include the envelope U values, lighting loads per square foot, and other miscellaneous power loads. It is important to note that the skylights and curtain wall are designed as the same glazing type, therefore, those two U-values are the same. The envelope loads are detailed in Table 4, the engineer's lighting loads are available in Table 5, and the specific power loads are depicted in Table 6.

Table 4 - U-values for building envelope

<i>Envelope U-values</i>	
<i>Above Grade Walls</i>	0.05
<i>Below Grade Walls</i>	0.08
<i>Roof</i>	0.05
<i>Skylight</i>	0.29
<i>Skylight Shading Coefficient</i>	0.33
<i>Curtain Wall</i>	0.29

Table 5 - Engineer specified lighting loads for HVAC calculations

<i>Lighting Loads</i>	<i>Watts/SF</i>
<i>General Office Area</i>	1.0
<i>Auditorium</i>	1.0
<i>Hall of Remembrance</i>	1.0
<i>Atrium</i>	1.0
<i>Exhibits</i>	1.0

Table 6 - Power loads as used by the MEP engineer

<i>Power Loads</i>	<i>Watts/SF</i>
<i>General Office Area</i>	2.0
<i>Exhibits - Process Lights</i>	10.0

BUILDING SCHEDULE

As a museum, the National Law Enforcement Museum is expected to operate ten hours per day with eight of those hours for the exhibits. The engineers did not explicitly state the occupancy time so it is assumed that the museum will be open at the same time as other museums in the District of Columbia, from 9:00AM to 5:00PM.

The engineers assumed that building occupancy would vary between 500-100 persons per day as a normal population. The expected maximum occupancy for the building is during National Police Week in early May. The museum is expecting 1300 persons to attend daily during this time.

DESIGN HEATING & COOLING LOADS

Loring Consulting Engineers also used Trane Trace 700© to calculate their design loads. Their results and the results from the Thesis calculation for cooling loads are defined in Table 7.

Table 7 - Trace 700(C) calculation comparison between thesis model and engineer's model for building cooling loads

	Thesis Calculation (Btu/hr)			Engineer's Calculation			
System	Sensible Load	Latent Load	Total Load	Sensible Load2	Latent Load3	Total Load4	Error
AHU-1	86547	9444	95991	123585	20502	144086	60%
AHU-2	110092	36378	146470	140713	23455	164168	53%
AHU-3	334478	146982	502344	1342301	437407	1779708	78%
AHU-4	348084	202811	550895	1342301	437407	1779708	76%
AHU-5	1967	751	2718	96030	36075	132105	98%
AHU-6	101045	34726	135771	140318	0	140318	51%
FCU-1	5098	5321	10419	24656	4588	29244	74%
FCU-2	578	24	602	912	370	1282	68%
FCU-3	14688	623	15310	3587	1241	4828	24%
FCU-4	8996	8828	17824	22890	16787	39677	69%
FCU-5	22373	16075	38448	330987	51494	382481	91%
FCU-6	18680	19590	38270	20518	5699	26217	41%
FCU-7	1286	504	1790	10579	3607	14186	89%
FCU-8	2418	949	3366	5788	480	6268	65%
FCU-9	248	259	507	917	353	1270	71%
FCU-10	2252	1772	4024	7630	3047	10677	73%
FCU-11	34989	1447	36437	46898	1563	48461	57%

From the error column on the far right, there is a very large error between the thesis model and the engineer's calculations. This is likely because the thesis model did not account for the load from the mechanical rooms except for the central plant room below the structure. This is obviously an error in judgment and a more complete load calculation must be completed to fully understand the structure. Further examination of the cooling tons for the building, as seen in Table 8, show a further discrepancy in the calculations.

Table 8 - Total cooling tons calculated for NLEM vs. Engineer's guidelines

Cooling Tons	Thesis Calculation	Engineer's Calculation
<i>System</i>	(tons)	(tons)
AHU-1	7.9	
AHU-2	12	
AHU-3	33	
AHU-4	38.7	
AHU-5	8.8	
AHU-6	1.2	
FCU-1	2.8	
FCU-2	0.1	
FCU-3	1.3	
FCU-4	1.1	
FCU-5	3	
FCU-6	2.9	
FCU-7	0.1	
FCU-8	0.3	
FCU-9	0.1	
FCU-10	0.1	
FCU-11	0.3	
Total	113.7	246

The engineer did not provide their heating calculations for the model but summarized in the mechanical narrative that the building requires 673 MBH or heating as its total load. A comparison of the heating capacities is located Table 9. Again, there is a significant difference between the load calculated by the thesis model and the load provided by the engineer.

Table 9 - Design heating capacities per system, comparison with engineer's design total heating load

Design Heating Capacities		
System	(BTU/hr)	(MBh)
AHU-1	76462	70
AHU-2	91553	72
AHU-3	236461	150
AHU-4	270795	162
AHU-5	26076	26
AHU-6	1775	2
FCU-1	15129	15
FCU-2	194	0
FCU-3	4922	5
FCU-4	1931	6
FCU-5	6109	11
FCU-6	11367	1
FCU-7	514	1
FCU-8	966	0
FCU-9	63	0
FCU-10	165	0
FCU-11	426	2
Total	744908	523
Engineer's Calculation		673

DESIGNED Vs. COMPUTED COMPARISON

To determine whether the two models are accurate to each other, a comparison of the certain indices is shown in Appendix B – Calculation Indices Comparison. This table compares the ventilation indices for cooling at ft^2/ton , for heating at $\text{Btu} \cdot \text{hr}/\text{ft}^2$, for supply air at cfm/ft^2 and ventilation supply at cfm/ft^2 .

The values show that the two models are disjointed from each other. However, the trend between them is similar. This is further affirmation that the thesis model must be modified further to mimic the design case. Moving forward, a more exact model would have utilized a zoning system to simplify the project, instead of the room by room analysis currently completed.

ENERGY CONSUMPTION & OPERATING COSTS

Summary of following section & its components

EQUIPMENT

Statistically, HVAC systems utilize most of a building's energy use. This is reflected in the amount of equipment and their power consumption. A table detailing the major mechanical equipment can be found in Appendix C – Mechanical Equipment. These details are of the design equipment detailed in the construction drawings by the building mechanical engineer.

From the previous report, Technical Report One, it can be concluded that all designated equipment meet ASHRAE 62.1 Section 5 for mechanical systems and equipment and ASHRAE 90.1 for HVAC and other equipment.

UTILITY COSTS

There are five components of utility that help the National Law Enforcement Museum to function. These include electric demand (both on and off peak), electric consumption (on and off peak), gas, water and fuel oil. None of the equipment in the building require fuel oil or gas and instead utilize water and electricity. This is likely because of the cramped construction conditions and the already present PEPCO main line that runs immediately adjacent to the site.

The utility provider for electricity is PEPCO, the major electricity supply company in the northeast United States. Their substation for NLEM is located on the fourth floor below grade in the central plant area. Water supply to the site is from the District of Columbia Water and Sewer Authority. Both these firms' rates are shown in Table 10. These utility rates are inserted into Trace 700© to perform energy and economy calculations.

Table 10 - Table of utility costs for the National Law Enforcement Museum

NLEM Utility Costs		
Electric Demand	\$/kw	5.4
Electric Consumption	\$/kwh	0.09
Electric Demand Off Peak	\$/kw	5.87
Electric Consumption Off Peak	\$/kwh	0.08
Gas	\$/therm	0.466
Water	\$/1000 gal.	5.19
Oil	\$/therm	0.4776

ENERGY ANALYSIS

There was not an energy analysis performed on the building model by the mechanical engineer. However, multiple energy conservation strategies are utilized in the design. This includes specifying high efficiency electric motors and light fixtures. The variable frequency drives for the cooling tower and air handling units also control energy consumption. Free cooling via the heat exchanger also reduces energy costs.

Using the thesis model, the energy use for NLEM per year is shown in Table 11. A visual representation of the total energy use for the building is show in Figure 1. From the figure, it can be concluded that a majority of the building's energy cost is from lighting and electrical loads. This is to be expected in a museum containing a theater. Display lighting often utilizes equipment with higher wattage.

Table 11 - Total building energy use per system per year

Building Energy (kBtu/yr)	
Heating	384539
Cooling	766230
Auxiliary Mechanical Equipment	289599
Lighting	474226
Other Electrical Loads	1162671

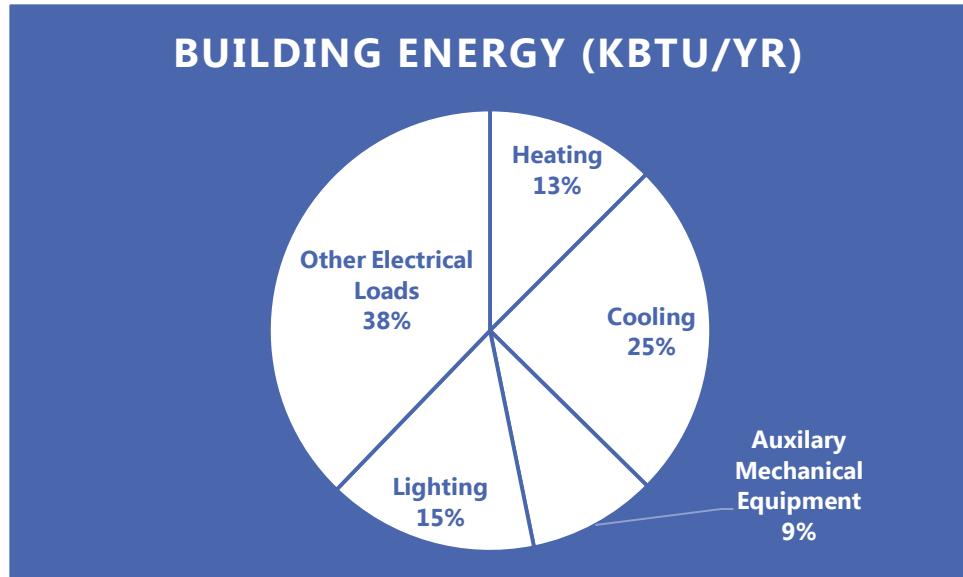


Figure 1 - Pie chart of percent energy use, using data from Table 11

ENERGY SUMMARY

Using the thesis model, the budgeting cost for energy use within the building is defined in Table 12. This table outlines the expected energy use within the building so facility managers may budget accordingly. From these values and the base square foot area of the museum being 54,000 SF, the energy cost per square foot of the National Law Enforcement Museum is estimated at \$1.87/SF. This is higher than the average expected for higher efficiency buildings of this type.

Table 12 - Energy cost budget of energy use per year per system

Energy Cost Budget	Mbtu/yr
Lighting	474.2
Heating	384.5
Cooling	334.2
Pumps	68.9
Heat Rejection	392.4
Fans	260.4
Receptacles	1162.7

EMISSIONS

Trace 700© calculates the Environmental impact of a building by analyzing both the site energy consumption, but also source energy consumption. The model output can be found in Table 13. Because of the heavy use of electricity in the building, it has very high carbon emissions. This may be improved in the future with the use of a more local source of energy such as wind, solar or hydropower.

Table 13 - Emissions from NLEM building as modeled by Trace 700(C)

Building Emissions		
CO2	2508111	lbm/yr
SO2	8966	gm/yr
NOX	3827	gm/yr

Further enhancements are difficult to make to the structure because it already is designed to LEED Silver. However, other less cost effective methods for reducing the energy footprint are available. This may be done with the use of photovoltaics or a local energy storage system, perhaps by using ice banks. Architecturally, the exterior pavilions could be designed to contain less glass and therefore a lower solar load would reduce energy consumption.

APPENDIX A – ROOM SCHEDULE

Room No.	Room Name	Area (SF)	Level #	Level Name	Interior/Exterior	System	Occupancy Classification	Lighting Power Density (W/ft2)	Internal Load	Airflow	Thermostat
101	entry lobby	769	1	Ground	Exterior	AHU-2	Lobby	1	Lobby	Assembly	Museum
103	east elevator lobby	75	1	Ground	Interior	AHU-2	Lobby	1	Lobby	Assembly	Museum
105	fire control room	178	1	Ground	Interior	FCU-03	Utility	1	None	Storage	Museum
108	exit lobby	721	1	Ground	Exterior	AHU-1	Lobby	1	Lobby	Assembly	Museum
110	west elevator lobby	51	1	Ground	Interior	AHU-1	Lobby	1	Lobby	Assembly	Museum
111	hoover research center	621	1	Ground	Exterior	FCU-01	Computer Room	1	Office	Office	Museum
112.1	elevator #2 closet	7	1	Ground	Interior	FCU-02	Utility	1	None	Storage	Museum
201	ticket/ info area	1695	2	Ticketing	Exterior	AHU-4	Lobby	1	Lobby	Assembly	Museum
202	east elevator lobby	174	2	Ticketing	Interior	AHU-4	Lobby	1	Lobby	Assembly	Museum
204	electrical room	95	2	Ticketing	Interior	AHU-4	Utility	1	None	Storage	Museum
206.1	storage	48	2	Ticketing	Interior	AHU-4	Storage	1	None	Storage	Museum
207	corridor	1200	2	Ticketing	Interior	AHU-4	Corridor	1	None	Office	Museum
208	warming kitchen	173	2	Ticketing	Interior	AHU-4	Cafeteria/Fast Food	1	Restaurant	Restaurant	Museum
209	storage	35	2	Ticketing	Interior	AHU-4	Storage	1	None	Storage	Museum
210	janitor's closet	68	2	Ticketing	Interior	AHU-4	Utility	1	None	Storage	Museum

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Room No.	Room Name	Area (SF)	Level #	Level Name	Interior/Exterior	System	Occupancy Classification	Lighting Power Density (W/ft2)			
								Internal Load	Airflow	Thermostat	
211	gift shop storage	89	2	Ticketing	Interior	AHU-4	Storage	1	None	Storage	Museum
215	west elevator lobby	175	2	Ticketing	Interior	FCU-05	Lobby	1	Lobby	Assembly	Museum
216	corridor	305	2	Ticketing	Exterior	FCU-05	Corridor	1	None	Office	Museum
216.1	west TVS lobby	1150	2	Ticketing	Exterior	FCU-05	Lobby	1	Lobby	Assembly	Museum
217	gift shop	1157	2	Ticketing	Exterior	FCU-06	Retail	1	Retail	Retail	Museum
217.1	gift office	82	2	Ticketing	Interior	FCU-05	Office	1	Office	Office	Museum
218	restroom	240	2	Ticketing	Interior	AHU-3	Restroom	1	None	Restroom	Museum
219	public coats/lockers	157	2	Ticketing	Interior	AHU-3	Locker Room	1	None	Restroom	Museum
220	restroom	178	2	Ticketing	Interior	AHU-3	Restroom	1	None	Restroom	Museum
221	café	300	2	Ticketing	Exterior	FCU-04	Cafeteria/Fast Food	1	Restaurant	Restaurant	Museum
221	café - FCU	328	2	Ticketing	Exterior	FCU-04	Cafeteria/Fast Food	1	Restaurant	Restaurant	Museum
222	admin offices	735	2	Ticketing	Exterior	AHU-3	Office	1	Office	Office	Museum
301	multipurpose	338	3	Exhibit	Exterior	AHU-4	Multipurpose Assembly	1	Lobby	Assembly	Museum
302	staff locker	80	3	Exhibit	Interior	AHU-4	Locker Room	1	Office	Restroom	Museum
303	restroom	84	3	Exhibit	Interior	AHU-4	Restroom	1	None	Restroom	Museum
304	green room/flex office	146	3	Exhibit	Interior	AHU-4	Office	1	Reception	Office	Museum
305	office	183	3	Exhibit	Exterior	AHU-4	Office	1	Office	Office	Museum
305.1	IT closet	177	3	Exhibit	Interior	AHU-4	Utility	1	None	Storage	Museum
306	electrical room	80	3	Exhibit	Interior	AHU-4	Utility	1	None	Storage	Museum
307	corridor	284	3	Exhibit	Exterior	AHU-4	Corridor	1	None	Office	Museum
308	exhibit support	1338	3	Exhibit	Exterior	AHU-4	Office	1	Office	Office	Museum

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Room No.	Room Name	Area (SF)	Level #	Level Name	Interior/Exterior	System	Occupancy Classification	Lighting Power Density (W/ft2)		Internal Load	Airflow	Thermostat
309	storage	63	3	Exhibit	Interior	AHU-4	Storage	1	None	Storage	Museum	
310	hall of remembrance	998	3	Exhibit	Exterior	AHU-4	Museum/Gallery	1	Lobby	Museum	Museum	
311	changing exhibits	2124	3	Exhibit	Exterior	AHU-3	Museum/Gallery	1	Lobby	Museum	Museum	
313	restroom	173	3	Exhibit	Interior	AHU-3	Restroom	1	None	Restroom	Museum	
314	restroom	274	3	Exhibit	Interior	AHU-3	Restroom	1	None	Restroom	Museum	
315	office	148	3	Exhibit	Exterior	AHU-3	Office	1	Office	Office	Museum	
317	exhibit AV	192	3	Exhibit	Interior	FCU-08	Computer Room	1	Office	Office	Museum	
318	corridor	219	3	Exhibit	Interior	AHU-3	Corridor	1	None	Office	Museum	
319	theater	1698	3	Exhibit	Exterior	AHU-5	Theater	1.3	Auditorium	Auditorium	Museum	
319.1	projection room	152	3	Exhibit	Interior	AHU-5	Computer Room	1.3	Office	Office	Museum	
320	exhibit hall	6100	3	Exhibit	Exterior	AHU-3	Museum/Gallery	1	Lobby	Museum	Museum	
320	exhibit hall	6100	3	Exhibit	Exterior	AHU-4	Museum/Gallery	1	Lobby	Museum	Museum	
320.2	AV room	102	3	Exhibit	Interior	FCU-07	Computer Room	1.3	Office	Office	Museum	
320.3	judgment simulator	430	3	Exhibit	Exterior	AHU-3	Museum/Gallery	1	Lobby	Museum	Museum	
400	PEPCO substation	1160	4	Plant	Exterior	AHU-6	Utility	1	None	Storage	Museum	
402	low voltage switchgear room	460	4	Plant	Exterior	AHU-6	Utility	1	None	Storage	Museum	
404	building management controls	413	4	Plant	Exterior	FCU-11	Utility	1	None	Storage	Museum	

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Room No.	Room Name	Area (SF)	Level #	Level Name	Interior/ Exterior	System	Occupancy Classification	Lighting		Internal Load	Airflow	Thermostat
								Power Density (W/ft2)				
406	elevator #3 control	128	4	Plant	Exterior	FCU-10	Utility	1		None	Storage	Museum
407	elevator #1 control	61	4	Plant	Exterior	FCU-09	Utility	1		None	Storage	Museum

APPENDIX B – CALCULATION INDICES COMPARISON

Design Comparison per Square Foot								
	Thesis Calculation				Engineer's Design			
System	Cooling (ft^2/ton)	Heating (BTU*h/ft^2)	Supply Air (CFM/ft^2)	Ventilation Supply Air (CFM/ft^2)	Cooling (ft^2/ton)	heating (BTU*h/ft^2)	Supply Air (CFM/ft^2)	Ventilation Supply Air (CFM/ft^2)
AHU-1	97.3	99.04	1.89	1.89	60.4	78.11	0.66	0.067848
AHU-2	70.3	108.47	1.59	1.59	56.6	68.14	0.66	0.063294
AHU-3	234	30.6	0.34	0.34	186	49	1.98	0.400752
AHU-4	267.9	26.13	0.78	0.283218	186	49	1.98	0.400752
AHU-5	211.4	14.1	1.56	0.310284	172.6	35.56	1.52	0.380456
AHU-6	1346	1.1	0.11	0.096767	138.5	0	3.68	0
FCU-1	220	24.36	2.94	0.044982	155.9	31.47	2.78	0.256872
FCU-2	139.5	27.66	3.47	0.096119	155.9	31.47	2.78	0.256872
FCU-3	139.5	27.66	3.47	0.096119	155.9	31.47	2.78	0.256872
FCU-4	264.3	6.44	0.64	0.539008	155.9	31.47	2.78	0.256872
FCU-5	566.1	3.57	0.37	0.145891	155.9	31.47	2.78	0.256872
FCU-6	400.1	9.82	0.35	0.35	155.9	31.47	2.78	0.256872
FCU-7	728.7	5.04	0.5	0.0901	155.9	31.47	2.78	0.256872
FCU-8	729.4	5.03	0.5	0.09025	155.9	31.47	2.78	0.256872
FCU-9	1443.6	1.03	0.1	0.1	155.9	31.47	2.78	0.256872
FCU-10	1447.9	1.29	0.12	0.094428	155.9	31.47	2.78	0.256872
FCU-11	1338	1.03	0.1	0.1	155.9	31.47	2.78	0.256872

APPENDIX C – MECHANICAL EQUIPMENT

Equipment	Function	Airflow (cfm)	Cooling Water Flow (gpm)	Heating Coil (kw)	Motor (hp)	Notes
AHU-1	Air handling unit	5000	20.50	25.00	5.00	
AHU-2	Air handling unit	5000	20.50	25.00	5.00	
AHU-3	Air handling unit	33000	138.27	160.00	40.00	
AHU-4	Air handling unit	33000	138.27	160.00	40.00	
AHU-5	Air handling unit	4000	25.26	25.00	5.00	
AHU-6	Air handling unit	4000	19.84	0.00	5.00	
FCU-1	Fan coil unit	1800	9.22	16.00	1.00	
FCU-2	Fan coil unit	650	3.24	2.00	0.33	
FCU-3	Fan coil unit	360	1.75	2.00	0.24	
FCU-4	Fan coil unit	1200	6.30	7.00	0.75	
FCU-5	Fan coil unit	1900	10.60	20.00	1.00	
FCU-6	Fan coil unit	1900	10.60	20.00	1.00	
FCU-7	Fan coil unit	300	1.42	2.00	0.24	
FCU-8	Fan coil unit	1800	10.91	5.50	0.75	
FCU-9	Fan coil unit	300	1.13	2.00	0.33	
FCU-10	Fan coil unit	900	3.56	6.50	0.50	
FCU-11	Fan coil unit	450	1.87	3.50	0.33	
CH-1	Chiller		437.00			
CT-1	Cooling Tower	45870	252.00	7.00	25.00	*fan
CT-2	Cooling Tower	45870	252.00	7.00	25.00	*fan

Equipment	Function	Airflow (cfm)	Cooling Water Flow (gpm)	Heating Coil (kw)	Motor (hp)	Notes
HX-1	Heat Exchanger		437.00		25.00	*pumps combined
EF-1	Exhaust Fan	1000			0.25	
GEF-1	Exhaust Fan	5000			3.00	
RAF-1	Exhaust Fan	5000			3.00	
SEF-1	Exhaust Fan	40000			25.00	
SEF-2	Exhaust Fan	40000			25.00	
SEF-3	Exhaust Fan	40000			25.00	
SEF-4	Exhaust Fan	20000			15.00	
SEF-5	Exhaust Fan	5000			5.00	
SEF-6	Exhaust Fan	5000			3.00	
SEF-7	Exhaust Fan	5000			3.00	
SPF-1	Exhaust Fan	4000			2.00	
SPF-2	Exhaust Fan	4000			2.00	
SPF-3	Exhaust Fan	4000			1.50	
SPF-4	Exhaust Fan	4000			1.50	
TEF-1	Exhaust Fan	4020			1.50	
TEF-2	Exhaust Fan	400			0.25	
CUH-1	Electric Heater	250		6.00	0.24	
EUH-1	Electric Heater	400		5.00	0.01	

APPENDIX D – BUILDING LOAD SUMMARIES

Room Checksums

By ACADEMIC

101 entry lobby

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 16				Mo/Hr: 6 / 16		OADB: 89				Mo/Hr: Heating Design		OADB: 17				Cooling	Heating	
Envelope Loads	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	Envelope Loads	Space Sensible Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	SADB	55.4	85.0				
Skylite Solar	53,988	0	53,988	39	55,148	60	Skylite Solar	0	0.00	Skylite Cond	0	-10,922	14.82	Ra Plenum	76.2	65.4				
Skylite Cond	0	2,791	2,791	2	0	0	Skylite Cond	0	0.00	Roof Cond	0	0	0.00	Return	76.2	65.4				
Roof Cond	0	0	0	0	0	0	Glass Solar	0	0.00	Glass Solar	0	0	0.00	Ret/OA	77.7	65.4				
Glass Solar	0	0	0	0	0	0	Glass/Door Cond	0	0.00	Glass/Door Cond	0	0	0.00	Fn MtrTD	0.0	0.0				
Glass/Door Cond	0	0	0	0	0	0	Wall Cond	-11,482	-14,565	Wall Cond	-11,482	-14,565	19.76	Fn BldTD	0.0	0.0				
Wall Cond	9,383	2,682	12,065	9	9,123	10	Partition/Door	0	0.00	Partition/Door	0	0	0.00	Fn Frict	0.0	0.0				
Partition/Door	0	0	0	0	0	0	Floor	0	0.00	Floor	0	0	0.00							
Floor	0	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0	0.00							
Adjacent Floor	0	0	0	0	0	0	Infiltration	0	0.00	Infiltration	0	0	0.00							
Infiltration	0	0	0	0	0	0	<i>Sub Total ==></i>	-11,482	-25,487	<i>Sub Total ==></i>	-11,482	-25,487	34.58							
<i>Sub Total ==></i>	63,371	5,473	68,844	50	64,271	70	<i>Internal Loads</i>			<i>Internal Loads</i>										
Internal Loads							Lights	0	0.00	Lights	0	0	0.00							
Lights	2,100	525	2,625	2	2,100	2	People	0	0.00	People	0	0	0.00							
People	45,000	0	45,000	32	25,000	27	Misc	0	0.00	Misc	0	0	0.00							
Misc	0	0	0	0	0	0	<i>Sub Total ==></i>	0	0.00	<i>Sub Total ==></i>	0	0	0.00							
<i>Sub Total ==></i>	47,100	525	47,625	34	27,100	30	Ceiling Load	-1,124	0.00	Ceiling Load	-1,124	0	0.00							
Ceiling Load	296	-296	0	0	274	0	Ventilation Load	0	0.00	Ventilation Load	0	0	0.00							
Ventilation Load	0	0	23,030	17	0	0	Adj Air Trans Heat	0	0.00	Adj Air Trans Heat	0	0	0.00							
Adj Air Trans Heat	0	0	0	0	0	0	Ov/Undr Sizing	-29,463	-29,463	Ov/Undr Sizing	-29,463	-29,463	39.97							
Dehumid. Ov Sizing	0	0	0	0	0	0	Exhaust Heat	0	0.00	Exhaust Heat	0	0	0.00							
Ov/Undr Sizing	0	0	0	0	0	0	OA Preheat Diff.	-18,699	25.37	OA Preheat Diff.	-18,699	25.37								
Exhaust Heat	-592	-592	0	0	0	0	RA Preheat Diff.	0	0.00	RA Preheat Diff.	0	0	0.00							
Sup. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	0.00	Additional Reheat	0	0	0.00							
Ret. Fan Heat	0	0	0	0	0	0	System Plenum Heat	-57	0.08	System Plenum Heat	-57	0.08								
Duct Heat Pkup	0	0	0	0	0	0	Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0	0.00							
Underflr Sup Ht Pkup	0	0	0	0	0	0	Supply Air Leakage	0	0.00	Supply Air Leakage	0	0	0.00							
Supply Air Leakage	0	0	0	0	0	0														
Grand Total ==>	110,767	5,110	138,906	100.00	91,644	100.00	Grand Total ==>	-42,068	-73,706	Grand Total ==>	-42,068	-73,706	100.00							

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	11.6	138.9	103.4	4,153	77.7	64.6	70.3	55.4	53.5	58.2		Floor	769				
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	11.6	138.9										ExFlr	0				
												Roof	769	769	100		
												Wall	1,220	0	0		
												Ext Door	0	0	0		
												Total				-87.8	

Room Checksums

By ACADEMIC

103 east elev lobby

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	ft ²	(%)	MBh	cfm	°F	°F					
Main Clg	0.6	7.7	6.8	286	76.8	63.7	67.3	55.4	54.8	63.0	Floor	75		Main Htg	-4.8	175	60.4	85.0
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	-0.5	13	17.0	55.4
											ExFlr	0		Reheat	-1.4	87	55.4	70.0
											Roof	75	75	Humidif	0.0	16	2.6	2.7
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
Total	0.6	7.7									Ext Door	0	0	Total	-5.3			

Room Checksums

By ACADEMIC

105 fire control room

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES				
Peaked at Time:	Mo/Hr: 6 / 15			Mo/Hr: 6 / 15	OADB: 90			Mo/Hr: Heating Design	OADB: 17			Cooling	Heating			
Outside Air:	OADB/WB/HR: 90 / 75 / 104			OADB: 90				OADB: 17				SADB	55.0	85.0		
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	Ra Plenum	76.0	61.2	
Envelope Loads							Envelope Loads						Return	76.0	61.2	
Skylite Solar	13,220	0	13,220	86	13,220	96	Skylite Solar	0	0	0	0	0.00	Ret/OA	76.4	61.2	
Skylite Cond	0	577	577	4	0	0	Skylite Cond	0	-2,310	47.04			Fn MtrTD	0.0	0.0	
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00			Fn BldTD	0.0	0.0	
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0	0.00			Fn Frict	0.0	0.0	
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0	0.00						
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0	0.00						
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00						
Floor	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	Infiltration	0	0	0.00						
<i>Sub Total ==></i>	13,220	577	13,797	90	13,220	96	<i>Sub Total ==></i>	0	-2,310	47.04						
Internal Loads							Internal Loads						AIRFLOWS			
Lights	486	122	608	4	486	4	Lights	0	0	0.00			Diffuser	617	185	
People	0	0	0	0	0	0	People	0	0	0.00			Terminal	617	185	
Misc	0	0	0	0	0	0	Misc	0	0	0.00			Main Fan	617	185	
<i>Sub Total ==></i>	486	122	608	4	486	4	<i>Sub Total ==></i>	0	0	0.00			Sec Fan	0	0	
Ceiling Load	54	-54	0	0	54	0	Ceiling Load	-496	0	0.00			Nom Vent	17	0	
Ventilation Load	0	0	906	6	0	0	Ventilation Load	0	0	0.00			AHU Vent	17	0	
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0.00			Infil	0	0	
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-2,600	-2,600	52.96			MinStop/Rh	185	185	
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	0	0	0.00			Return	600	185	
Exhaust Heat		0	0	0			OA Preheat Diff.	0	0	0.00			Exhaust	0	0	
Sup. Fan Heat			0	0			RA Preheat Diff.	0	0	0.00			Rm Exh	17	0	
Ret. Fan Heat	0		0	0			Additional Reheat	0	0	0.00			Auxiliary	0	0	
Duct Heat Pkup	0		0	0			System Plenum Heat	0	0	0.00			Leakage Dwn	0	0	
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0	0.00			Leakage Ups	0	0	
Supply Air Leakage	0	0	0	0			Supply Air Leakage	0	0	0.00						
<i>Grand Total ==></i>	13,760	644	15,310	100.00			<i>Grand Total ==></i>	-3,096	-4,910	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	ft ²	(%)	MBh	cfm	°F	°F					
Main Clg	1.3	15.3	14.7	617	76.4	60.6	53.8	55.0	51.8	52.2				Main Htg	-4.9	185	61.2	85.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0				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				Preheat	0.0	0	0.0	0.0
<i>Total</i>	1.3	15.3												Humidif	0.0	21	2.6	3.4
														Opt Vent	0.0	0	0.0	0.0
														<i>Total</i>	-4.9			

Room Checksums

By ACADEMIC

108 exit lobby

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time: Outside Air:						Mo/Hr: 7 / 15 OADB/WB/HR: 91 / 77 / 118						Mo/Hr: 6 / 15 OADB: 90						Cooling Heating		
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent (%)	Space Sensible	Btu/h	Percent (%)	Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent (%)	Mo/Hr: Heating Design OADB: 17		SADB	60.0	85.0	
Envelope Loads										Envelope Loads							Ra Plenum	75.6	66.8	
Skylite Solar	52,370	0		52,370	58		53,548	69		Skylite Solar	0	0	0	0.00		Return	75.6	66.8		
Skylite Cond	0	2,729		2,729	3		0	0		Skylite Cond	0	-10,540	16.89			Ret/OA	76.0	66.8		
Roof Cond	0	0		0	0		0	0		Roof Cond	0	0	0	0.00		Fn MtrTD	0.0	0.0		
Glass Solar	12,773	0		12,773	14		13,011	17		Glass Solar	0	0	0	0.00		Fn BldTd	0.0	0.0		
Glass/Door Cond	4,120	0		4,120	5		3,659	5		Glass/Door Cond	-16,180	-16,180	25.93			Fn Frict	0.0	0.0		
Wall Cond	0	0		0	0		0	0		Wall Cond	0	0	0	0.00						
Partition/Door	0			0	0		0	0		Partition/Door	0	0	0	0.00						
Floor	0			0	0		0	0		Floor	0	0	0	0.00						
Adjacent Floor	0	0		0	0		0	0		Adjacent Floor	0	0	0	0.00						
Infiltration	0			0	0		0	0		Infiltration	0	0	0	0.00						
<i>Sub Total ==></i>	<i>69,264</i>	<i>2,729</i>		<i>71,992</i>	<i>79</i>		<i>70,218</i>	<i>90</i>		<i>Sub Total ==></i>	<i>-16,180</i>	<i>-26,719</i>	<i>42.82</i>							
Internal Loads						Internal Loads						Internal Loads						AIRFLOWS		
Lights	1,969	492		2,461	3		1,969	3		Lights	0	0	0	0.00		Diffuser	4,648	2,789		
People	9,743	0		9,743	11		5,413	7		People	0	0	0	0.00		Terminal	4,648	2,789		
Misc	0	0		0	0		0	0		Misc	0	0	0	0.00		Main Fan	4,648	1,395		
<i>Sub Total ==></i>	<i>11,712</i>	<i>492</i>		<i>12,204</i>	<i>13</i>		<i>7,382</i>	<i>9</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>		Sec Fan	0	1,395		
Ceiling Load	140	-140		0	0		125	0		Ceiling Load	-731	0	0	0.00		Norm Vent	121	0		
Ventilation Load	0	0		6,652	7		0	0		Ventilation Load	0	0	0	0.00		AHU Vent	121	0		
Adj Air Trans Heat	0			0	0		0	0		Adj Air Trans Heat	0	0	0	0.00		Infil	0	0		
Dehumid. Ov Sizing				0	0					Ov/Undr Sizing	-29,724	-29,724	47.64			MinStop/Rh	1,395	1,395		
Ov/Undr Sizing	0			0	0		0	0		Exhaust Heat	0	0	0	0.00		Return	4,648	1,395		
Exhaust Heat		-83		-83	0					OA Preheat Diff.	-5,810	9.31				Exhaust	121	0		
Sup. Fan Heat				0	0					RA Preheat Diff.	0	0	0	0.00		Rm Exh	0	0		
Ret. Fan Heat	0	0		0	0					Additional Reheat	0	0	0	0.00		Auxiliary	0	0		
Duct Heat Pkup	0			0	0					System Plenum Heat	-141	0.23				Leakage Dwn	0	0		
Underflr Sup Ht Pkup				0	0					Underflr Sup Ht Pkup	0	0	0	0.00		Leakage Ups	0	0		
Supply Air Leakage	0			0	0					Supply Air Leakage	0	0	0	0.00						
<i>Grand Total ==></i>	<i>81,115</i>	<i>2,999</i>		<i>90,766</i>	<i>100.00</i>		<i>77,725</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-46,635</i>	<i>-62,395</i>	<i>100.00</i>							

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	7.6	90.8	82.0	4,592	76.0	63.2	66.2	60.0	56.7	63.4		Main Htg	-67.2	2,789	63.4	85.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	-5.8	121	17.0	60.0	
<i>Total</i>	<i>7.6</i>	<i>90.8</i>										Reheat	<i>-15.5</i>	<i>1,395</i>	<i>60.0</i>	<i>70.0</i>	
												Humidif	0.0	152	2.6	2.7	
												Opt Vent	0.0	0	0.0	0.0	
												<i>Total</i>	<i>-73.0</i>				

Room Checksums

By ACADEMIC

110 west elev lobby

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 15				Mo/Hr: 6 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Tot Sens	Percent	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 118				OADB: 90				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	(%)	(%)	(%)	(%)		
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar		3,704	0	3,704	71			3,788	88		Envelope Loads	Skylite Solar	0	0	0	0.00	60.0	85.0		
Skylite Cond		0	193	193	4			0	0		Skylite Cond	0	-746	0	20.97	75.6	66.8			
Roof Cond		0	0	0	0			0	0		Roof Cond	0	0	0	0.00	75.6	66.8			
Glass Solar		0	0	0	0			0	0		Glass Solar	0	0	0	0.00	76.1	66.8			
Glass/Door Cond		0	0	0	0			0	0		Glass/Door Cond	0	0	0	0.00	0.0	0.0			
Wall Cond		0	0	0	0			0	0		Wall Cond	0	0	0	0.00	0.0	0.0			
Partition/Door		0		0	0			0	0		Partition/Door	0	0	0	0.00	0	77			
Floor		0		0	0			0	0		Floor	0	0	0	0.00	9	0			
Adjacent Floor		0	0	0	0			0	0		Adjacent Floor	0	0	0	0.00	9	0			
Infiltration		0		0	0			0	0		Infiltration	0	0	0	0.00	0	0			
<i>Sub Total ==></i>		3,704	193	3,897	75			3,788	88		<i>Sub Total ==></i>	0	-746	0	20.97					
Internal Loads											Internal Loads									
Lights		139	35	174	3			139	3		Lights	0	0	0	0.00	258	155			
People		689	0	689	13			383	9		People	0	0	0	0.00	258	155			
Misc		0	0	0	0			0	0		Misc	0	0	0	0.00	258	77			
<i>Sub Total ==></i>		828	35	863	17			522	12		<i>Sub Total ==></i>	0	0	0	0.00	0	0			
Ceiling Load		10	-10	0	0			9	0		Ceiling Load	-52	0	0	0.00	77	77			
Ventilation Load		0	0	471	9			0	0		Ventilation Load	0	0	0	0.00	258	77			
Adj Air Trans Heat		0		0	0			0	0		Adj Air Trans Heat	0	0	0	0.00	9	0			
Dehumid. Ov Sizing				0	0						Ov/Undr Sizing	-2,539	-2,539	71.43		RA Preheat Diff.	11.56			
Ov/Undr Sizing		0		0	0			0	0		Exhaust Heat	0	0	0	0.00	0	0			
Exhaust Heat			-6	-6	0						OA Preheat Diff.	-411	0	0.00		RA Preheat Diff.	0.00			
Sup. Fan Heat				0	0						Additional Reheat	0	0	0	0.00	5.06	1.52			
Ret. Fan Heat		0	0	0	0						System Plenum Heat	141	-3.97			593.14				
Duct Heat Pkup		0	0	0	0						Underflr Sup Ht Pkup	0	0.00			117.12				
Underflr Sup Ht Pkup				0	0						Supply Air Leakage	0	0.00			102.46	-81.24			
Supply Air Leakage				0	0						No. People	2								
Grand Total ==>		4,543	212	5,225	100.00			4,319	100.00		Grand Total ==>	-2,591	-3,555	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	cfm	°F	°F							
Main Clg	0.4	5.2	4.6	253	76.1	63.3	66.5	60.0	56.5	62.8	Floor	51		Main Htg	-3.7	155	63.4
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
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	-0.4	9	17.0
Total	0.4	5.2									ExFlr	0		Reheat	-0.9	77	60.0
											Roof	51	51	Humidif	0.0	11	2.6
											Wall	0	0	Opt Vent	0.0	0	0.0
											Ext Door	0	0	Total	-4.1		

Room Checksums

By ACADEMIC

111 hoover research center

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 6 / 19				Mo/Hr: 6 / 19		OADB: 83				Mo/Hr: Heating Design		OADB: 17				Cooling	Heating	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Btu/h	Space Sensible	Percent Of Total	Btu/h	Space Peak Space Sens	Coil Peak Tot Sens	Percent (%)	Btu/h	Btu/h	Space Sens. (%)	Btu/h	(%)				
Envelope Loads						Envelope Loads			Envelope Loads											
Skylite Solar	7,717	0	7,717	21		Skylite Solar	0		Skylite Solar	0	0.00						SADB	60.0	85.0	
Skylite Cond	0	1,757	1,757	5		Skylite Cond	0	0	Skylite Cond	0	-7,958	49.90					Ra Plenum	75.9	60.7	
Roof Cond	0	0	0	0		Roof Cond	0	0	Roof Cond	0	0	0.00					Return	75.9	60.7	
Glass Solar	16,805	0	16,805	46		Glass Solar	0		Glass Solar	0	0	0.00					Ret/OA	76.0	60.7	
Glass/Door Cond	1,040	0	1,040	3		Glass/Door Cond	-5,227		Glass/Door Cond	-5,227	32.77						Fn MtrTD	0.0	0.0	
Wall Cond	0	0	0	0		Wall Cond	0	0	Wall Cond	0	0	0.00					Fn BldTd	0.0	0.0	
Partition/Door	0		0	0		Partition/Door	0		Partition/Door	0	0	0.00					Fn Frict	0.0	0.0	
Floor	0		0	0		Floor	0		Floor	0	0	0.00								
Adjacent Floor	0	0	0	0		Adjacent Floor	0		Adjacent Floor	0	0	0.00								
Infiltration	0		0	0		Infiltration	0		Infiltration	0	0	0.00								
<i>Sub Total ==></i>	25,561	1,757	27,319	75		<i>Sub Total ==></i>	25,561	78	<i>Sub Total ==></i>	-5,227	-13,186	82.67								
Internal Loads						Internal Loads			Internal Loads											
Lights	1,696	424	2,119	6		Lights	0		Lights	0	0	0.00					Diffuser	1,959	588	
People	1,954	0	1,954	5		People	0		People	0	0	0.00					Terminal	1,959	588	
Misc	4,239	0	4,239	12		Misc	0		Misc	0	0	0.00					Main Fan	1,959	588	
<i>Sub Total ==></i>	7,889	424	8,313	23		<i>Sub Total ==></i>	7,020	21	<i>Sub Total ==></i>	0	0	0.00					Sec Fan	0	0	
Ceiling Load	180	-180	0	0		Ceiling Load	-1,838		Ceiling Load	-1,838	0	0.00					Nom Vent	28	0	
Ventilation Load	0	0	834	2		Ventilation Load	0	0	Ventilation Load	0	0	0.00					AHU Vent	28	0	
Adj Air Trans Heat	0		0	0		Adj Air Trans Heat	0		Adj Air Trans Heat	0	0	0.00					Infil	0	0	
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	-2,763		Ov/Undr Sizing	-2,763	-2,763	17.33					MinStop/Rh	588	588	
Ov/Undr Sizing	0		0	0		Exhaust Heat	0		Exhaust Heat	0	0	0.00					Return	1,959	588	
Exhaust Heat		-29	-29	0		OA Preheat Diff.	0		OA Preheat Diff.	0	0	0.00					Exhaust	28	0	
Sup. Fan Heat			0	0		RA Preheat Diff.	0		RA Preheat Diff.	0	0	0.00					Rm Exh	0	0	
Ret. Fan Heat	0	0	0	0		Additional Reheat	0		Additional Reheat	0	0	0.00					Auxiliary	0	0	
Duct Heat Pkup	0	0	0	0		System Plenum Heat	0		System Plenum Heat	0	0	0.00					Leakage Dwn	0	0	
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0		Underflr Sup Ht Pkup	0	0	0.00					Leakage Ups	0	0	
Supply Air Leakage	0	0	0	0		Supply Air Leakage	0		Supply Air Leakage	0	0	0.00								
<i>Grand Total ==></i>	33,630	1,973	36,437	100.00		<i>Grand Total ==></i>	32,762	100.00	<i>Grand Total ==></i>	-9,829	-15,949	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	cfm	°F	°F							
Main Clg	3.0	36.4	35.0	1,959	76.0	63.0	65.4	60.0	56.9	64.3		Main Htg	-16.0	588	60.7	85.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	0.0	0	0.0	0.0	
<i>Total</i>	3.0	36.4										Humidif	0.0	70	2.6	3.0	
												Opt Vent	0.0	0	0.0	0.0	
												<i>Total</i>	-16.0				

Room Checksums

By ACADEMIC

112 1 elevator #2 closet

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 6 / 15		Mo/Hr: 6 / 15		Mo/Hr: 6 / 15		Mo/Hr: Heating Design		Mo/Hr: 17		Cooling	Heating		
Envelope Loads	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	SADB	55.0	85.0
Skylite Solar	520	0	520	86	520	96	Skylite Solar	0	0.00	Skylite Solar	0	0.00	Ra Plenum	76.0	61.2
Skylite Cond	0	23	23	4	0	0	Skylite Cond	0	47.05	Skylite Cond	0	47.05	Return	76.0	61.2
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0.00	Roof Cond	0	0.00	Ret/OA	76.4	61.2
Glass Solar	0	0	0	0	0	0	Glass Solar	0	0.00	Glass Solar	0	0.00	Fn MtrTD	0.0	0.0
Glass/Door Cond	0	0	0	0	0	0	Glass/Door Cond	0	0.00	Glass/Door Cond	0	0.00	Fn BldTD	0.0	0.0
Wall Cond	0	0	0	0	0	0	Wall Cond	0	0.00	Wall Cond	0	0.00	Fn Frict	0.0	0.0
Partition/Door	0		0	0	0	0	Partition/Door	0	0.00	Partition/Door	0	0.00			
Floor	0		0	0	0	0	Floor	0	0.00	Floor	0	0.00			
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0.00	Adjacent Floor	0	0.00			
Infiltration	0		0	0	0	0	Infiltration	0	0.00	Infiltration	0	0.00			
<i>Sub Total ==></i>	520	23	543	90	520	96	<i>Sub Total ==></i>	0	-91	<i>Sub Total ==></i>	0	-91	47.05		
Internal Loads															
Lights	19	5	24	4	19	4	Lights	0	0.00	Lights	0	0.00	Diffuser	24	7
People	0	0	0	0	0	0	People	0	0.00	People	0	0.00	Terminal	24	7
Misc	0	0	0	0	0	0	Misc	0	0.00	Misc	0	0.00	Main Fan	24	7
<i>Sub Total ==></i>	19	5	24	4	19	4	<i>Sub Total ==></i>	0	0.00	<i>Sub Total ==></i>	0	0.00	Sec Fan	0	0
Ceiling Load	2	-2	0	0	2	0	Ceiling Load	-19	0.00	Ceiling Load	-19	0.00	Nom Vent	1	0
Ventilation Load	0	0	36	6	0	0	Ventilation Load	0	0.00	Ventilation Load	0	0.00	AHU Vent	1	0
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0.00	Adj Air Trans Heat	0	0.00	Infil	0	0
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-102	52.95	Ov/Undr Sizing	-102	52.95	MinStop/Rh	7	7
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	0	-0.01	Exhaust Heat	0	-0.01	Return	24	7
Exhaust Heat			0	0			OA Preheat Diff.	0	0.00	OA Preheat Diff.	0	0.00	Exhaust	0	0
Sup. Fan Heat			0	0			RA Preheat Diff.	0	0.00	RA Preheat Diff.	0	0.00	Rm Exh	1	0
Ret. Fan Heat	0		0	0			Additional Reheat	0	0.00	Additional Reheat	0	0.00	Auxiliary	0	0
Duct Heat Pkup	0		0	0			System Plenum Heat	0	0.00	System Plenum Heat	0	0.00	Leakage Dwn	0	0
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0.00	Underflr Sup Ht Pkup	0	0.00	Leakage Ups	0	0
Supply Air Leakage	0		0	0			Supply Air Leakage	0	0.00	Supply Air Leakage	0	0.00			
<i>Grand Total ==></i>	541	25	602	100.00	541	100.00	<i>Grand Total ==></i>	-122		<i>Grand Total ==></i>	-193	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	ft ²	(%)	MBh	cfm	°F	°F					
Main Clg	0.1	0.6	0.6	24	76.4	60.6	53.8	55.0	51.8	52.2	Floor	7		Main Htg	-0.2	7	61.2	85.0
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
<i>Total</i>	0.1	0.6									ExFlr	0		Humidif	0.0	1	2.6	3.4
											Roof	7	7	Opt Vent	0.0	0	0.0	0.0
											Wall	0	0	<i>Total</i>	-0.2			
											Ext Door	0	0					

Room Checksums

By ACADEMIC

201 ticket info area

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15		Mo/Hr: Heating Design		Space Peak		Coil Peak		Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121		OADB: 91		OADB: 17		Space Sens	Tot Sens	Space Peak	Coil Peak	Space Sens	Heating	
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	(%)	
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Roof Cond	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Partition/Door	-959			-959	-2	-959	-6			Partition/Door	-25,257	-25,257	110.85	
Floor	0			0	0	0	0			Floor	0	0	0.00	
Adjacent Floor	0	0	0	0	0	0	0			Adjacent Floor	0	0	0.00	
Infiltration	0			0	0	0	0			Infiltration	0	0	0.00	
<i>Sub Total ==></i>	<i>-959</i>	<i>0</i>	<i>-959</i>	<i>-2</i>		<i>-959</i>	<i>-6</i>			<i>Sub Total ==></i>	<i>-25,257</i>	<i>-25,257</i>	<i>110.85</i>	
Internal Loads										Internal Loads				
Lights	4,628	1,157	5,785	13		4,628	28	Lights	0	0	0	0	0.00	
People	22,905	0	22,905	52		12,725	76	People	0	0	0	0	0.00	
Misc	0	0	0	0		0	0	Misc	0	0	0	0	0.00	
<i>Sub Total ==></i>	<i>27,533</i>	<i>1,157</i>	<i>28,690</i>	<i>66</i>		<i>17,353</i>	<i>104</i>	<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>	
Ceiling Load	271	-271	0	0		271	2	Ceiling Load	0	0	0	0	0.00	
Ventilation Load	0	0	16,127	37		0	0	Ventilation Load	0	0	0	0	0.00	
Adj Air Trans Heat	0		0	0		0	0	Adj Air Trans Heat	0	0	0	0	0.00	
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	13,075	13,075	-57.39			
Ov/Undr Sizing	0		0	0		0	0	Exhaust Heat	0	0	0	0	0.00	
Exhaust Heat		-160	-160	0				OA Preheat Diff.	-10,602	46.53				
Sup. Fan Heat			0	0				RA Preheat Diff.	0	0.00				
Ret. Fan Heat	0	0	0	0				Additional Reheat	0	0.00				
Duct Heat Pkup	0	0	0	0				System Plenum Heat	0	0.00				
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0.00				
Supply Air Leakage	0	0	0	0				Supply Air Leakage	0	0.00				
Grand Total ==>	26,845	725	43,697	100.00		16,665	100.00	Grand Total ==>	-12,182	-22,784	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	°F		
Main Clg	3.6	43.7	22.3	607	82.5	70.2	91.3	50.4	46.4	40.5	Main Htg	-16.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Aux Htg	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Preheat	-10.6
Total	3.6	43.7									Reheat	-4.0
											Humidif	0.0
											Opt Vent	0.0
											Total	-26.8

Room Checksums

By ACADEMIC

202 east elev lobby

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	50.4	100.0							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Tot Sens	Coil Peak Btu/h	Percent Of Total (%)												
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	Btu/h	(%)												
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	0	0	0	0	0	0	Roof Cond	0	0	0.00												
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	-101			-101	-2	-101	-6	Partition/Door	-2,663	-2,663	113.97												
Floor	0			0	0	0	0	Floor	0	0	0.00												
Adjacent Floor	0	0	0	0	0	0	0	Adjacent Floor	0	0	0.00												
Infiltration	0			0	0	0	0	Infiltration	0	0	0.00												
<i>Sub Total ==></i>	<i>-101</i>	<i>0</i>	<i>-101</i>	<i>-2</i>		<i>-101</i>	<i>-6</i>	<i>Sub Total ==></i>	<i>-2,663</i>	<i>-2,663</i>	<i>113.97</i>												
Internal Loads								Internal Loads															
Lights	475	119	594	13		475	28	Lights	0	0	0.00												
People	2,351	0	2,351	52		1,306	76	People	0	0	0.00												
Misc	0	0	0	0		0	0	Misc	0	0	0.00												
<i>Sub Total ==></i>	<i>2,826</i>	<i>119</i>	<i>2,945</i>	<i>66</i>		<i>1,781</i>	<i>104</i>	<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>												
Ceiling Load	28	-28	0	0		28	2	Ceiling Load	0	0	0.00												
Ventilation Load	0	0	1,655	37		0	0	Ventilation Load	0	0	0.00												
Adj Air Trans Heat	0		0	0		0	0	Adj Air Trans Heat	0	0	0.00												
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	1,415	1,415	-60.54												
Ov/Undr Sizing	0		0	0		0	0	Exhaust Heat	0	0	0.00												
Exhaust Heat			-16	-16	0			OA Preheat Diff.	-1,088	46.57													
Sup. Fan Heat			0	0	0			RA Preheat Diff.	0	0.00													
Ret. Fan Heat	0	0	0	0				Additional Reheat	0	0.00													
Duct Heat Pkup	0	0	0	0				System Plenum Heat	0	0.00													
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													
<i>Grand Total ==></i>	<i>2,753</i>	<i>74</i>	<i>4,483</i>	<i>100.00</i>		<i>1,708</i>	<i>100.00</i>	<i>Grand Total ==></i>	<i>-1,249</i>	<i>-2,337</i>	<i>100.00</i>												

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	0.4	4.5	2.3	62	82.6	70.2	91.4	50.4	46.4	40.4		Main Htg	-1.7	37	60.2	100.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	Preheat	-1.1	29	17.0	50.4	
<i>Total</i>	<i>0.4</i>	<i>4.5</i>							<i>0</i>	<i>0</i>	<i>0</i>	<i>Reheat</i>	<i>-0.4</i>	<i>19</i>	<i>50.4</i>	<i>70.0</i>	
												<i>Humidif</i>	<i>0.0</i>	<i>37</i>	<i>2.6</i>	<i>2.7</i>	
												<i>Opt Vent</i>	<i>0.0</i>	<i>0</i>	<i>0.0</i>	<i>0.0</i>	
												<i>Total</i>	<i>-2.8</i>				

Room Checksums

By ACADEMIC

204 electrical room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Tot Sens	Btu/h	(%)	(%)	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 48				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	(%)	(%)	(%)	SADB	50.4	85.0
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total									Ra Plenum	75.5	70.0
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)								Return	75.5	70.0	
Skylite Solar		0	0	0	0			0	0								Ret/OA	89.2	70.0	
Skylite Cond		0	0	0	0			0	0								Fn MtrTD	0.0	0.0	
Roof Cond		0	0	0	0			0	0								Fn BldTD	0.0	0.0	
Glass Solar		0	0	0	0			0	0								Fn Frict	0.0	0.0	
Glass/Door Cond		0	0	0	0			0	0											
Wall Cond		0	0	0	0			0	0											
Partition/Door		0		0	0			0	0											
Floor		0		0	0			0	0											
Adjacent Floor		0	0	0	0			0	0											
Infiltration		0		0	0			0	0											
<i>Sub Total ==></i>		0	0	0	0			0	0											
Internal Loads																				
Lights	259	65	324	39				259	93											
People	0	0	0	0				0	0											
Misc	0	0	0	0				0	0											
<i>Sub Total ==></i>	259	65	324	39				259	93											
Ceiling Load	15	-15	0	0				19	7											
Ventilation Load	0	0	516	61				0	0											
Adj Air Trans Heat	0		0	0				0	0											
Dehumid. Ov Sizing			0	0																
Ov/Undr Sizing	0		0	0				0	0											
Exhaust Heat		0	0	0																
Sup. Fan Heat			0	0																
Ret. Fan Heat	0	0	0	0																
Duct Heat Pkup		0	0	0																
Underflr Sup Ht Pkup			0	0																
Supply Air Leakage		0	0	0																
<i>Grand Total ==></i>	275	50	840	100.00				279	100.00								-102	-441	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	ft ²	(%)	MBh	cfm	°F	°F			
Main Clg	0.1	0.8	0.5	10	89.2	76.2	116.1	50.4	50.3	54.2	Main Htg	-0.2	6	60.2	85.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	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	Preheat	-0.3	9	17.0	50.4		
<i>Total</i>	0.1	0.8									Reheat	-0.1	3	50.4	70.0		

Room Checksums

By ACADEMIC

206 1 storage

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time: Outside Air:						Mo/Hr: 7 / 14 OADB/WB/HR: 91 / 77 / 121						Mo/Hr: 2 / 15 OADB: 48						Mo/Hr: Heating Design OADB: 17					
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent Of Total		Space Sensible	Btu/h	Percent Of Total			Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent Of Total (%)		Cooling	Heating			
Envelope Loads													Envelope Loads						SADB	50.4	85.0		
Skylite Solar	0	0			0	0		0	0	0			Skylite Solar	0	0	0.00			Ra Plenum	75.5	70.0		
Skylite Cond	0	0			0	0		0	0	0			Skylite Cond	0	0	0.00			Return	75.5	70.0		
Roof Cond	0	0			0	0		0	0	0			Roof Cond	0	0	0.00			Ret/OA	89.2	70.0		
Glass Solar	0	0			0	0		0	0	0			Glass Solar	0	0	0.00			Fn MtrTD	0.0	0.0		
Glass/Door Cond	0	0			0	0		0	0	0			Glass/Door Cond	0	0	0.00			Fn BldTd	0.0	0.0		
Wall Cond	0	0			0	0		0	0	0			Wall Cond	0	0	0.00			Fn Frict	0.0	0.0		
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	0			Adjacent Floor	0	0	0.00							
Infiltration	0				0	0		0	0	0			Infiltration	0	0	0.00							
<i>Sub Total ==></i>	0	0			0	0		0	0	0			<i>Sub Total ==></i>	0	0	0.00							
Internal Loads													Internal Loads										
Lights	131	33			164	39		131	93				Lights	0	0	0.00							
People	0	0			0	0		0	0	0			People	0	0	0.00							
Misc	0	0			0	0		0	0	0			Misc	0	0	0.00							
<i>Sub Total ==></i>	131	33			164	39		131	93				<i>Sub Total ==></i>	0	0	0.00							
Ceiling Load	8	-8			0	0		10	7				Ceiling Load	0	0	0.00							
Ventilation Load	0	0			261	61		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	0.00							
Dehumid. Ov Sizing					0	0							Ov/Undr Sizing	-51	23.07								
Ov/Undr Sizing	0				0	0		0	0	0			Exhaust Heat	0	0.00								
Exhaust Heat					0	0							OA Preheat Diff.	-171	76.93								
Sup. Fan Heat					0	0							RA Preheat Diff.	0	0.00								
Ret. Fan Heat	0				0	0							Additional Reheat	0	0.00								
Duct Heat Pkup					0	0							System Plenum Heat	0	0.00								
Underflr Sup Ht Pkup					0	0							Underflr Sup Ht Pkup	0	0.00								
Supply Air Leakage					0	0							Supply Air Leakage	0	0.00								
<i>Grand Total ==></i>	139	25			425	100.00		141	100.00				<i>Grand Total ==></i>	-51									

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION								
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F					
Main Clg	0.0	0.4	0.2	5	89.2	76.2	116.1		50.4	50.3	54.2	Main Htg	-0.1	3	60.2	85.0				
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0	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	Preheat	-0.2	5	17.0	50.4				
<i>Total</i>	0.0	0.4										Reheat	0.0	2	50.4	70.0				
												Humidif	0.0	5	2.6	2.7				
												Opt Vent	0.0	0	0.0	0.0				
												<i>Total</i>	-0.3							

Room Checksums

By ACADEMIC

207 corridor

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	50.4	85.0							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak Space Sens	Tot Sens	Coil Peak Btu/h	Percent Of Total (%)					Ra Plenum	75.5	70.0					
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h						Return	75.5	70.0						
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0.00				Ret/OA	78.3	70.0						
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0.00				Fn MtrTD	0.0	0.0						
Roof Cond	0	0	0	0	0	0	0	0	0	0	0.00				Fn BldTD	0.0	0.0						
Glass Solar	0	0	0	0	0	0	0	0	0	0	0.00				Fn Frict	0.0	0.0						
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Wall Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Partition/Door	-87		-87	0		-87	-1																
Floor	0		0	0		0	0																
Adjacent Floor	0	0	0	0		0	0																
Infiltration	0		0	0		0	0																
<i>Sub Total ==></i>	<i>-87</i>	<i>0</i>	<i>-87</i>	<i>0</i>		<i>-87</i>	<i>-1</i>																
Internal Loads															Internal Loads								
Lights	3,276	819	4,096	19		3,276	24								Lights	0	0	0.00					
People	3,776	0	3,776	18		2,098	15								People	0	0	0.00					
Misc	8,191	0	8,191	39		8,191	60								Misc	0	0	0.00					
<i>Sub Total ==></i>	<i>15,244</i>	<i>819</i>	<i>16,063</i>	<i>76</i>		<i>13,566</i>	<i>99</i>								<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>					
Ceiling Load	192	-192	0	0		192	1								Ceiling Load	0	0	0.00					
Ventilation Load	0	0	5,159	24		0	0								Ventilation Load	0	0	0.00					
Adj Air Trans Heat	0		0	0		0	0								Adj Air Trans Heat	0	0	0.00					
Dehumid. Ov Sizing			0	0											Ov/Undr Sizing	-2,700	-2,700	32.19					
Ov/Undr Sizing	0		0	0		0	0								Exhaust Heat	0	0	0.00					
Exhaust Heat		-51	-51	0											OA Preheat Diff.	-3,392	40.44						
Sup. Fan Heat			0	0											RA Preheat Diff.	0	0.00						
Ret. Fan Heat	0	0	0	0											Additional Reheat	0	0.00						
Duct Heat Pkup	0	0	0	0											System Plenum Heat	0	0.00						
Underflr Sup Ht Pkup			0	0											Underflr Sup Ht Pkup	0	0.00						
Supply Air Leakage	0	0	0	0											Supply Air Leakage	0	0.00						
<i>Grand Total ==></i>	<i>15,349</i>	<i>576</i>	<i>21,084</i>	<i>100.00</i>		<i>13,670</i>	<i>100.00</i>								<i>Grand Total ==></i>	<i>-4,997</i>	<i>-8,388</i>	<i>100.00</i>					

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	cfm	°F	°F									
Main Clg	1.8	21.1	15.8	498	78.3	65.8	75.3	50.4	50.3	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									
<i>Total</i>	<i>1.8</i>	<i>21.1</i>																	
Floor					1,200		Main Htg		299	60.2	85.0								
Part					600		Aux Htg		0	0.0	0.0								
Int Door					0		Preheat		-3.4	91	17.0	50.4							
ExFlr					0		Reheat		-3.3	149	50.4	70.0							
Roof					0	0	Humidif		0.0	114	2.6	2.7							
Wall					0	0	Opt Vent		0.0	0	0.0	0.0							
Ext Door					0	0	<i>Total</i>		-11.7										

Room Checksums

By ACADEMIC

208 warming kitchen

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Tot Sens	Btu/h	Btu/h	(%)	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	Btu/h	(%)				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar	0	0	0	0	0			0	0		Envelope Loads	Skylite Solar	0	0	0	0	0.00			
Skylite Cond	0	0	0	0	0			0	0		Skylite Cond	0	0	0	0	0.00				
Roof Cond	0	0	0	0	0			0	0		Roof Cond	0	0	0	0	0.00				
Glass Solar	0	0	0	0	0			0	0		Glass Solar	0	0	0	0	0.00				
Glass/Door Cond	0	0	0	0	0			0	0		Glass/Door Cond	0	0	0	0	0.00				
Wall Cond	0	0	0	0	0			0	0		Wall Cond	0	0	0	0	0.00				
Partition/Door	-152			-152	-1			-152	-4		Partition/Door	-3,995			-3,995	65.77				
Floor	0			0	0			0	0		Floor	0			0	0.00				
Adjacent Floor	0	0	0	0	0			0	0		Adjacent Floor	0			0	0.00				
Infiltration	0			0	0			0	0		Infiltration	0			0	0.00				
<i>Sub Total ==></i>	<i>-152</i>	<i>0</i>	<i>-152</i>	<i>-1</i>	<i></i>			<i>-152</i>	<i>-4</i>		<i>Sub Total ==></i>	<i>-3,995</i>			<i>-3,995</i>	<i>65.77</i>				
Internal Loads											Internal Loads									
Lights	472	118	590	5				472	13		Lights	0			0	0.00				
People	6,343	0	6,343	53				3,172	90		People	0			0	0.00				
Misc	0	0	0	0				0	0		Misc	0			0	0.00				
<i>Sub Total ==></i>	<i>6,816</i>	<i>118</i>	<i>6,934</i>	<i>57</i>	<i></i>			<i>3,644</i>	<i>104</i>		<i>Sub Total ==></i>	<i>0</i>			<i>0</i>	<i>0.00</i>				
Ceiling Load	28	-28	0	0				28	1		Ceiling Load	0			0	0.00				
Ventilation Load	0	0	5,326	44				0	0		Ventilation Load	0			0	0.00				
Adj Air Trans Heat	0			0	0			0	0		Adj Air Trans Heat	0			0	0.00				
Dehumid. Ov Sizing				0	0						Ov/Undr Sizing	1,422			1,422	-23.41				
Ov/Undr Sizing	0			0	0			0	0		Exhaust Heat	0			0	0.00				
Exhaust Heat				-46	-46						OA Preheat Diff.	-3,501			57.64					
Sup. Fan Heat				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						Underflr Sup Ht Pkup	0			0.00					
Supply Air Leakage	0	0	0	0	0						Supply Air Leakage	0			0.00					
<i>Grand Total ==></i>	<i>6,692</i>	<i>44</i>	<i>12,062</i>	<i>100.00</i>	<i></i>			<i>3,520</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-2,573</i>			<i>-6,075</i>	<i>100.00</i>				

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	cfm	°F	°F							
Main Clg	1.0	12.1	5.2	128	86.5	73.9	106.2	50.4	43.4	30.5		Floor	173				
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		Part	1,044				
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		Int Door	0				
<i>Total</i>	<i>1.0</i>	<i>12.1</i>	<i>5.2</i>	<i>128</i>	<i>86.5</i>	<i>73.9</i>	<i>106.2</i>	<i>50.4</i>	<i>43.4</i>	<i>30.5</i>		ExFlr	<i>0</i>				
												Roof	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.0</i>
												Wall	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.0</i>
												Ext Door	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.0</i>

Room Checksums

By ACADEMIC

210 janitors closet

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:	Mo/Hr: 7 / 14			Mo/Hr: 2 / 15				Mo/Hr: Heating Design	Cooling			Heating		
Outside Air:	OADB/WB/HR: 91 / 77 / 121			OADB: 48				OADB: 17	SADB	50.4		85.0		
Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)						
Envelope Loads						Envelope Loads								
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0	0	0	0	0.00		
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0	0	0	0.00		
Roof Cond	0	0	0	0	0	Roof Cond	0	0	0	0	0	0.00		
Glass Solar	0	0	0	0	0	Glass Solar	0	0	0	0	0	0.00		
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0	0	0	0	0.00		
Wall Cond	0	0	0	0	0	Wall Cond	0	0	0	0	0	0.00		
Partition/Door	0			0	0	Partition/Door	0			0	0	0.00		
Floor	0			0	0	Floor	0			0	0	0.00		
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0			0	0	0.00		
Infiltration	0			0	0	Infiltration	0			0	0	0.00		
Sub Total ==>	0	0	0	0	0	Sub Total ==>	0			0	0	0.00		
Internal Loads						Internal Loads								
Lights	186	46	232	39	186	Lights	0	0	0	0	0	0.00		
People	0	0	0	0	0	People	0	0	0	0	0	0.00		
Misc	0	0	0	0	0	Misc	0	0	0	0	0	0.00		
Sub Total ==>	186	46	232	39	186	Sub Total ==>	0	0	0	0	0	0.00		
Ceiling Load	11	-11	0	0	14	Ceiling Load	0	0	0	0	0	0.00		
Ventilation Load	0	0	369	61	0	Ventilation Load	0	0	0	0	0	0.00		
Adj Air Trans Heat	0			0	0	Adj Air Trans Heat	0			0	0	0		
Dehumid. Ov Sizing				0	0	Ov/Undr Sizing	-73	-73	23.07					
Ov/Undr Sizing	0			0	0	Exhaust Heat	0	0	0.00					
Exhaust Heat				0	0	OA Preheat Diff.	-243	76.93						
Sup. Fan Heat				0	0	RA Preheat Diff.	0	0	0.00					
Ret. Fan Heat	0			0	0	Additional Reheat	0	0	0.00					
Duct Heat Pkup	0			0	0	System Plenum Heat	0	0	0.00					
Underflr Sup Ht Pkup				0	0	Underflr Sup Ht Pkup	0	0	0.00					
Supply Air Leakage	0			0	0	Supply Air Leakage	0	0	0.00					
Grand Total ==>	197	36	602	100.00	200	Grand Total ==>	-73	-316	100.00					

Room Checksums

By ACADEMIC

211 gift shop storage

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:	Mo/Hr: 7 / 14			Mo/Hr: 2 / 15				Mo/Hr: Heating Design	Cooling			Heating		
Outside Air:	OADB/WB/HR: 91 / 77 / 121			OADB: 48				OADB: 17	SADB	50.4		85.0		
Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)						
Envelope Loads						Envelope Loads								
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0	0	0	0	0.00		
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0	0	0	0.00		
Roof Cond	0	0	0	0	0	Roof Cond	0	0	0	0	0	0.00		
Glass Solar	0	0	0	0	0	Glass Solar	0	0	0	0	0	0.00		
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0	0	0	0	0.00		
Wall Cond	0	0	0	0	0	Wall Cond	0	0	0	0	0	0.00		
Partition/Door	0			0	0	Partition/Door	0			0	0	0.00		
Floor	0			0	0	Floor	0			0	0	0.00		
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0			0	0	0.00		
Infiltration	0			0	0	Infiltration	0			0	0	0.00		
Sub Total ==>	0	0	0	0	0	Sub Total ==>	0			0	0	0.00		
Internal Loads						Internal Loads								
Lights	243	61	304	39	243	Lights	0	0	0	0	0	0.00		
People	0	0	0	0	0	People	0	0	0	0	0	0.00		
Misc	0	0	0	0	0	Misc	0	0	0	0	0	0.00		
Sub Total ==>	243	61	304	39	243	Sub Total ==>	0	0	0	0	0	0.00		
Ceiling Load	14	-14	0	0	18	Ceiling Load	0	0	0	0	0	0.00		
Ventilation Load	0	0	484	61	0	Ventilation Load	0	0	0	0	0	0.00		
Adj Air Trans Heat	0			0	0	Adj Air Trans Heat	0			0	0	0		
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	-95	-95	23.07					
Ov/Undr Sizing	0		0	0	0	Exhaust Heat	0	0	0.00					
Exhaust Heat			0	0		OA Preheat Diff.	-318	76.93						
Sup. Fan Heat			0	0		RA Preheat Diff.	0	0	0.00					
Ret. Fan Heat	0		0	0		Additional Reheat	0	0	0.00					
Duct Heat Pkup	0		0	0		System Plenum Heat	0	0	0.00					
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0	0	0.00					
Supply Air Leakage	0		0	0		Supply Air Leakage	0	0	0.00					
Grand Total ==>	257	47	787	100.00	261	Grand Total ==>	-95	-413	100.00					

Room Checksums

By ACADEMIC

215 west elev lobby

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 10 / 17				Mo/Hr: Heating Design				Cooling	Heating	
Outside Air:	OADB/WB/HR:	OADB: 91 / 77 / 121		OADB: 66		OADB: 17		SADB	55.0	85.0				
Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent 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	Skylite Solar	0	0	0	0.00				
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0	0	0.00				
Roof Cond	0	0	0	0	0	Roof Cond	0	0	0	0.00				
Glass Solar	0	0	0	0	0	Glass Solar	0	0	0	0.00				
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00				
Wall Cond	0	0	0	0	0	Wall Cond	0	0	0	0.00				
Partition/Door	0			0	0	Partition/Door	0	0	0	0.00				
Floor	0			0	0	Floor	0	0	0	0.00				
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0	0	0.00				
Infiltration	0			0	0	Infiltration	0	0	0	0.00				
<i>Sub Total ==></i>	0	0	0	0	0	<i>Sub Total ==></i>	0	0	0	0.00				
Internal Loads						Internal Loads								
Lights	478	119	597	14	478	Lights	0	0	0	0.00				
People	2,365	0	2,365	54	1,314	People	0	0	0	0.00				
Misc	0	0	0	0	0	Misc	0	0	0	0.00				
<i>Sub Total ==></i>	2,843	119	2,962	68	1,792	<i>Sub Total ==></i>	0	0	0	0.00				
Ceiling Load	44	-44	0	0	72	Ceiling Load	0	0	0	0.00				
Ventilation Load	0	0	1,435	33	0	Ventilation Load	0	0	0	0.00				
Adj Air Trans Heat	0			0	0	Adj Air Trans Heat	0	0	0	0.00				
Dehumid. Ov Sizing				0	0	Ov/Undr Sizing	-419	-419	100.00					
Ov/Undr Sizing	0			0	0	Exhaust Heat	0	0	0.00					
Exhaust Heat		-26	-26	-1	0	OA Preheat Diff.	0	0	0.00					
Sup. Fan Heat		0	0	0	0	RA Preheat Diff.	0	0	0.00					
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0	0.00					
Duct Heat Pkup	0			0	0	System Plenum Heat	0	0	0.00					
Underflr Sup Ht Pkup				0	0	Underflr Sup Ht Pkup	0	0	0.00					
Supply Air Leakage	0	0	0	0	0	Supply Air Leakage	0	0	0.00					
<i>Grand Total ==></i>	2,886	50	4,372	100.00	1,864	<i>Grand Total ==></i>	-419	-419	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	MBh	cfm	°F	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	ft ²	(%)	MBh	cfm	°F	Lvg		
Main Clg	0.4	4.4	2.4	82	81.0	69.9	92.2	55.0	53.4	58.4	Floor	175	25	70.0	85.0
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
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
											ExFlr	0	0	0.0	0.0
											Roof	0	0	0.0	0.0
											Wall	0	0	0.0	0.0
											Ext Door	0	0	0.0	0.0
<i>Total</i>	0.4	4.4									<i>Main Htg</i>	-0.4	25	70.0	85.0
											<i>Aux Htg</i>	0.0	0	0.0	0.0
											<i>Preheat</i>	0.0	0	0.0	0.0
											<i>Humidif</i>	0.0	37	2.6	3.0
											<i>Opt Vent</i>	0.0	0	0.0	0.0
											<i>Total</i>	-0.4			

Room Checksums

By ACADEMIC

216 1 west TVS lobby

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 13		OADB: 89				Mo/Hr: Heating Design		OADB: 17				Cooling	Heating	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Percent Of Total (%)		Space Peak Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)					
Envelope Loads																				
Skylite Solar	0	0	0	0		0	0		0	0	0.00	Skylite Solar	0	0	0		55.0	100.0		
Skylite Cond	0	0	0	0		0	0		0	0	0.00	Skylite Cond	0	0	0		75.8	70.0		
Roof Cond	0	0	0	0		0	0		0	0	0.00	Roof Cond	0	0	0		75.8	70.0		
Glass Solar	0	0	0	0		0	0		0	0	0.00	Glass Solar	0	0	0		81.4	70.0		
Glass/Door Cond	0	0	0	0		0	0		0	0	0.00	Glass/Door Cond	0	0	0		0.0	0.0		
Wall Cond	0	0	0	0		0	0		0	0	0.00	Wall Cond	0	0	0		0.0	0.0		
Partition/Door	-663		-663	-2		-663	-6		Partition/Door	-17,450		-17,450	340.23							
Floor	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		Infiltration	0		0	0.00							
<i>Sub Total ==></i>	<i>-663</i>	<i>0</i>	<i>-663</i>	<i>-2</i>		<i>-663</i>	<i>-6</i>		<i>Sub Total ==></i>	<i>-17,450</i>		<i>-17,450</i>	<i>340.23</i>							
Internal Loads									Internal Loads											
Lights	3,140	785	3,925	14		3,140	28		Lights	0		0	0.00							
People	15,541	0	15,541	57		8,634	76		People	0		0	0.00							
Misc	0	0	0	0		0	0		Misc	0		0	0.00							
<i>Sub Total ==></i>	<i>18,681</i>	<i>785</i>	<i>19,465</i>	<i>71</i>		<i>11,774</i>	<i>103</i>		<i>Sub Total ==></i>	<i>0</i>		<i>0</i>	<i>0.00</i>							
Ceiling Load	286	-286	0	0		286	3		Ceiling Load	0		0	0.00							
Ventilation Load	0	0	8,830	32		0	0		Ventilation Load	0		0	0.00							
Adj Air Trans Heat	0		0	0		0	0		Adj Air Trans Heat	0		0	0.00							
Dehumid. Ov Sizing			0	0					Ov/Undr Sizing	12,321		12,321	-240.23							
Ov/Undr Sizing	0		0	0		0	0		Exhaust Heat	0		0	0.00							
Exhaust Heat		-169	-169	-1					OA Preheat Diff.	0		0	0.00							
Sup. Fan Heat			0	0					RA Preheat Diff.	0		0	0.00							
Ret. Fan Heat	0	0	0	0					Additional Reheat	0		0	0.00							
Duct Heat Pkup	0	0	0	0					System Plenum Heat	0		0	0.00							
Underflr Sup Ht Pkup			0	0					Underflr Sup Ht Pkup	0		0	0.00							
Supply Air Leakage	0	0	0	0					Supply Air Leakage	0		0	0.00							
<i>Grand Total ==></i>	<i>18,304</i>	<i>329</i>	<i>27,464</i>	<i>100.00</i>		<i>11,397</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-5,129</i>		<i>-5,129</i>	<i>100.00</i>							

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	2.3	27.5	15.1	511	81.4	70.7	95.9	55.0	54.3	61.8		Main Htg	-5.1	153	70.0	100.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	0.0	0	0.0	0.0	
<i>Total</i>	<i>2.3</i>	<i>27.5</i>							<i>Floor</i>	<i>1,150</i>			<i>Humidif</i>	<i>-0.1</i>	<i>242</i>	<i>2.6</i>	<i>3.4</i>
									<i>Part</i>	<i>4,560</i>			<i>Opt Vent</i>	<i>0.0</i>	<i>0</i>	<i>0.0</i>	<i>0.0</i>
									<i>Int Door</i>	<i>0</i>			<i>Total</i>	<i>-5.3</i>			
									<i>ExFlr</i>	<i>0</i>							
									<i>Roof</i>	<i>0</i>							
									<i>Wall</i>	<i>0</i>							
									<i>Ext Door</i>	<i>0</i>							

Room Checksums

By ACADEMIC

216 corridor

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES												
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Percent Tot Sens	Tot Sens	(%)	Cooling	Heating											
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				Space Sens	Sens. + Lat.	Btu/h	Btu/h	(%)	Total Btu/h	Space Sens	Sens. + Lat.	Btu/h	Btu/h	(%)	Total Btu/h	(%)				
		Space Sens.	Plenum Sens.	Net Total	Percent Of Total (%)			Space Sensible	Percent Of Total (%)																					
Skylite Solar	0	0	0	0	0			0	0			Envelope Loads	Skylite Solar	0	0	0	0	0	0.00											
Skylite Cond	0	0	0	0	0			0	0			Skylite Cond	0	0	0	0	0	0.00												
Roof Cond	0	0	0	0	0			0	0			Roof Cond	0	0	0	0	0	0.00												
Glass Solar	0	0	0	0	0			0	0			Glass Solar	0	0	0	0	0	0.00												
Glass/Door Cond	0	0	0	0	0			0	0			Glass/Door Cond	0	0	0	0	0	0.00												
Wall Cond	0	0	0	0	0			0	0			Wall Cond	0	0	0	0	0	0.00												
Partition/Door	-174			-174	-3			-174	-5			Partition/Door	-4,592		-4,592	283.14														
Floor	0			0	0			0	0			Floor	0		0	0.00														
Adjacent Floor	0	0	0	0	0			0	0			Adjacent Floor	0		0	0.00														
Infiltration	0			0	0			0	0			Infiltration	0		0	0.00														
<i>Sub Total ==></i>	<i>-174</i>	<i>0</i>	<i>-174</i>	<i>-3</i>				<i>-174</i>	<i>-5</i>			<i>Sub Total ==></i>	<i>-4,592</i>		<i>-4,592</i>	<i>283.14</i>														
Internal Loads								Internal Loads				Internal Loads																		
Lights	833	208	1,041	20				Lights	0			Lights	0		0	0.00														
People	960	0	960	18				People	0			People	0		0	0.00														
Misc	2,082	0	2,082	40				Misc	0			Misc	0		0	0.00														
<i>Sub Total ==></i>	<i>3,874</i>	<i>208</i>	<i>4,083</i>	<i>78</i>				<i>Sub Total ==></i>	<i>3,448</i>	<i>103</i>		<i>Sub Total ==></i>	<i>0</i>		0	0.00														
Ceiling Load	76	-76	0	0				Ceiling Load	0			Ceiling Load	0		0	0.00														
Ventilation Load	0	0	1,314	25				Ventilation Load	0			Ventilation Load	0		0	0.00														
Adj Air Trans Heat	0		0	0				Adj Air Trans Heat	0			Adj Air Trans Heat	0		0	0.00														
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing				Ov/Undr Sizing	2,970		2,970	-183.14														
Ov/Undr Sizing	0		0	0				Exhaust Heat				Exhaust Heat	0		0	0.00														
Exhaust Heat		-20	-20	0				OA Preheat Diff.				OA Preheat Diff.	0		0	0.00														
Sup. Fan Heat			0	0				RA Preheat Diff.				RA Preheat Diff.	0		0	0.00														
Ret. Fan Heat	0	0	0	0				Additional Reheat				Additional Reheat	0		0	0.00														
Duct Heat Pkup	0	0	0	0				System Plenum Heat				System Plenum Heat	0		0	0.00														
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup				Underflr Sup Ht Pkup	0		0	0.00														
Supply Air Leakage	0	0	0	0				Supply Air Leakage				Supply Air Leakage	0		0	0.00														
Grand Total ==>	3,776	112	5,202	100.00				Grand Total ==>	3,349	100.00		Grand Total ==>	-1,622		-1,622	100.00														

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent DB/°F	Lvg WB/°F		
Main Clg	0.4	5.2	3.9	162	77.9	65.2	72.9	56.4	54.7	61.3		Floor	305				
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		Part	1,200				
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	0.4	5.2										ExFlr	0				
												Roof	0	0	0		
												Wall	0	0	0		
												Ext Door	0	0	0		
												Total	-1.6				

Room Checksums

By ACADEMIC

217 1 gift office

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent (%)	Space Sens	Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent (%)	Cooling	Heating
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17	Space Sens	Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent (%)	Space Sens	Tot Sens	Coil Peak Btu/h	Percent (%)				
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h				
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56.5	100.0		
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.8	70.0		
Roof Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75.8	70.0		
Glass Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.9	70.0		
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		
Wall Cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		
Partition/Door	-35			-35	-2			-35	-4			Partition/Door			-918		-918	-918	207.26				
Floor	0			0	0			0	0			Floor			0		0	0	0.00				
Adjacent Floor	0	0	0	0	0			0	0			Adjacent Floor			0		0	0	0.00				
Infiltration	0			0	0			0	0			Infiltration			0		0	0	0.00				
<i>Sub Total ==></i>	<i>-35</i>	<i>0</i>	<i>-35</i>	<i>-2</i>				<i>-35</i>	<i>-4</i>			<i>Sub Total ==></i>			<i>-918</i>		<i>-918</i>	<i>-918</i>	<i>207.26</i>				
Internal Loads												Internal Loads											
Lights	224	56	280	20				224	25			Lights			0		0	0	0.00				
People	258	0	258	18				143	16			People			0		0	0	0.00				
Misc	560	0	560	40				560	61			Misc			0		0	0	0.00				
<i>Sub Total ==></i>	<i>1,042</i>	<i>56</i>	<i>1,098</i>	<i>78</i>				<i>927</i>	<i>102</i>			<i>Sub Total ==></i>			<i>0</i>		<i>0</i>	<i>0</i>	<i>0.00</i>				
Ceiling Load												Ceiling Load			0		0	0	0.00				
Ventilation Load	0	0	353	25				0	0			Ventilation Load			0		0	0	0.00				
Adj Air Trans Heat	0			0	0			0	0			Adj Air Trans Heat			0		0	0	0.00				
Dehumid. Ov Sizing				0	0							Ov/Undr Sizing			475		475	475	-107.26				
Ov/Undr Sizing	0			0	0			0	0			Exhaust Heat			0		0	0	0.00				
Exhaust Heat				-5	-5							OA Preheat Diff.			0		0	0	0.00				
Sup. Fan Heat				0	0							RA Preheat Diff.			0		0	0	0.00				
Ret. Fan Heat	0	0	0	0	0							Additional Reheat			0		0	0	0.00				
Duct Heat Pkup	0	0	0	0	0							System Plenum Heat			0		0	0	0.00				
Underflr Sup Ht Pkup				0	0							Underflr Sup Ht Pkup			0		0	0	0.00				
Supply Air Leakage	0	0	0	0	0							Supply Air Leakage			0		0	0	0.00				
<i>Grand Total ==></i>	<i>1,027</i>	<i>30</i>	<i>1,410</i>	<i>100.00</i>				<i>913</i>	<i>100.00</i>			<i>Grand Total ==></i>			<i>-443</i>		<i>-443</i>	<i>-443</i>	<i>100.00</i>				

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent DB/°F	Lvg WB/°F		
Main Clg	0.1	1.4	1.1	44	77.9	65.2	72.8		56.5	54.8	61.4	Floor	82				
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0	Part	240				
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0	Int Door	0				
<i>Total</i>	<i>0.1</i>	<i>1.4</i>										ExFlr	0				
												Roof	0	0	0		
												Wall	0	0	0		
												Ext Door	0	0	0		
												<i>Total</i>	<i>-0.5</i>				

Room Checksums

By ACADEMIC

217 gift shop

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES										
Peaked at Time:		Mo/Hr: 7 / 14								Mo/Hr: 7 / 14		OADB: 91								Mo/Hr: Heating Design		OADB: 17								Cooling		Heating								
		Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent Of Total			Space Sensible	Btu/h	Percent Of Total			Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent Of Total			SADB	50.0	100.0																
Envelope Loads															Envelope Loads							Ra Plenum	75.9	70.0																
Skylite Solar	0	0	0	0	0	0	0			0	0	0			Skylite Solar	0	0	0	0	0		Return	75.9	70.0																
Skylite Cond	0	0	0	0	0	0	0			0	0	0			Skylite Cond	0	0	0	0	0		Ret/OA	89.7	17.0																
Roof Cond	0	0	0	0	0	0	0			0	0	0			Roof Cond	0	0	0	0	0		Fn MtrTD	0.0	0.0																
Glass Solar	0	0	0	0	0	0	0			0	0	0			Glass Solar	0	0	0	0	0		Fn BldTD	0.0	0.0																
Glass/Door Cond	0	0	0	0	0	0	0			0	0	0			Glass/Door Cond	0	0	0	0	0		Fn Frict	0.0	0.0																
Wall Cond	0	0	0	0	0	0	0			0	0	0			Wall Cond	0	0	0	0	0																				
Partition/Door	-436					-436	-1			-436		-4			Partition/Door	-11,481		-11,481	98.06																					
Floor	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			Infiltration	0		0	0.00																					
Sub Total ==>	-436		0			-436	-1			-436		-4			Sub Total ==>	-11,481		-11,481	98.06																					
Internal Loads															Internal Loads																									
Lights	3,159		790			3,949	10			3,159		27			Lights	0		0	0.00																					
People	15,635		0			15,635	41			8,686		74			People	0		0	0.00																					
Misc	0		0			0	0			0		0			Misc	0		0	0.00																					
Sub Total ==>	18,794		790			19,584	51			11,845		101			Sub Total ==>	0		0	0.00																					
Ceiling Load	346		-346			0	0			346		3			Ceiling Load	0		0	0.00																					
Ventilation Load	0		0			19,542	51			0		0			Ventilation Load	0		-7,476	63.86																					
Adj Air Trans Heat	0					0	0			0		0			Adj Air Trans Heat	0		0	0																					
Dehumid. Ov Sizing						0	0								Ov/Undr Sizing	7,249		7,249	-61.91																					
Ov/Undr Sizing	0					0	0			0		0			Exhaust Heat	0		0	0.00																					
Exhaust Heat			-420			-420	-1								OA Preheat Diff.	0		0	0.00																					
Sup. Fan Heat						0	0								RA Preheat Diff.	0		0	0.00																					
Ret. Fan Heat	0		0			0	0								Additional Reheat	0		0	0.00																					
Duct Heat Pkup	0		0			0	0								System Plenum Heat	0		0	0.00																					
Underflr Sup Ht Pkup						0	0								Underflr Sup Ht Pkup	0		0	0.00																					
Supply Air Leakage	0					0	0								Supply Air Leakage	0		0	0.00																					
Grand Total ==>	18,704		24			38,270	100.00			11,755		100.00			Grand Total ==>	-4,232		-11,708	100.00																					
COOLING COIL SELECTION										AREAS										HEATING COIL SELECTION										Capacity MBh										
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb		Gross Total	Glass ft²	(%)								Floor	-11.7	127	17.0	100.0																
Main Clg	3.2	38.3	18.7	422	89.7	76.8	118.7		50.0	49.9	53.4									Aux Clg	0.0	0	0	0.0																
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																
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0									Total	3.2	38.3																		
Total	3.2	38.3																		Floor	1,157																			
																				Part	3,000																			
																				Int Door	0																			
																				ExFlr	0																			
																				Roof	0		0	0																
																				Wall	0		0	0																
																				Ext Door	0		0	0																

Room Checksums

By ACADEMIC

218 restroom

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				OADB: 17	Space Sens	Space Peak	Coil Peak	Percent Tot Sens	Percent Of Total	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 48				OADB: 17	Space Sens	Space Peak	Coil Peak	Percent Tot Sens	Percent Of Total					
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total		Btu/h	Btu/h	Btu/h	Btu/h	(%)					
Skylite Solar	0	0	0	0	0			0	0		0	0	0	0	0.00			SADB	54.5	85.0
Skylite Cond	0	0	0	0	0			0	0		0	0	0	0	0.00			Ra Plenum	75.3	70.0
Roof Cond	0	0	0	0	0			0	0		0	0	0	0	0.00			Return	75.3	70.0
Glass Solar	0	0	0	0	0			0	0		0	0	0	0	0.00			Ret/OA	81.2	70.0
Glass/Door Cond	0	0	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	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		0	0	0	0	0.00					
Adjacent Floor	0	0	0	0	0			0	0		0	0	0	0	0.00					
Infiltration	0			0	0			0	0		0	0	0	0	0.00					
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>			<i>0</i>	<i>0</i>		<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>					
Internal Loads																	AIRFLOWS			
Lights	655	164	819	56				655	95		Lights	0	0	0	0.00			Cooling		
People	0	0	0	0				0	0		People	0	0	0	0.00			Heating		
Misc	0	0	0	0				0	0		Misc	0	0	0	0.00					
<i>Sub Total ==></i>	<i>655</i>	<i>164</i>	<i>819</i>	<i>56</i>				<i>655</i>	<i>95</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>					
Ceiling Load	24	-24	0	0				36	5		Ceiling Load	0	0	0	0.00					
Ventilation Load	0	0	652	44				0	0		Ventilation Load	0	0	0	0.00					
Adj Air Trans Heat	0		0	0				0	0		Adj Air Trans Heat	0	0	0	0.00					
Dehumid. Ov Sizing			0	0							Ov/Undr Sizing	-303	-303	38.64						
Ov/Undr Sizing	0		0	0				0	0		Exhaust Heat	0	0	0	0.00					
Exhaust Heat			0	0							OA Preheat Diff.	-481	-481	61.36						
Sup. Fan Heat			0	0							RA Preheat Diff.	0	0	0	0.00					
Ret. Fan Heat	0		0	0							Additional Reheat	0	0	0	0.00					
Duct Heat Pkup			0	0							System Plenum Heat	0	0	0	0.00					
Underflr Sup Ht Pkup			0	0							Underflr Sup Ht Pkup	0	0	0	0.00					
Supply Air Leakage			0	0							Supply Air Leakage	0	0	0	0.00					
<i>Grand Total ==></i>	<i>680</i>	<i>139</i>	<i>1,471</i>	<i>100.00</i>				<i>691</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-303</i>	<i>-784</i>	<i>100.00</i>						

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	°F	°F							
Main Clg	0.1	1.5	1.0	30	81.2	68.9	86.8	54.5	53.4	59.0	Floor	240	Main Htg	-0.5	18	62.2	85.0
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	-0.5	12	17.0	54.5
<i>Total</i>	<i>0.1</i>	<i>1.5</i>									ExFlr	0	Reheat	-0.2	9	54.5	70.0
											Roof	0	Humidif	0.0	14	2.6	2.7
											Wall	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	<i>Total</i>	-0.9			

Room Checksums

By ACADEMIC

219 public coat room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Btu/h	Btu/h	(%)	(%)	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				Space Sens	Space Sens	Btu/h	Btu/h	(%)	(%)	SADB	SADB
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total			Envelope Loads	Envelope Loads							Ra Plenum	Ra Plenum
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)			Skylite Solar	Skylite Solar	0	0	0.00	0.00	75.3	75.3		
Envelope Loads												Skylite Cond	Skylite Cond	0	0	0.00	0.00	75.3	70.0		
Skylite Solar		0	0	0	0.0			0	0.00			Roof Cond	Roof Cond	0	0	0.00	0.00	90.1	70.0		
Skylite Cond		0	0	0	0.0			0	0.00			Glass Solar	Glass Solar	0	0	0.00	0.00	0.0	0.0		
Roof Cond		0	0	0	0.0			0	0.00			Glass/Door Cond	Glass/Door Cond	0	0	0.00	0.00	0.0	0.0		
Glass Solar		0	0	0	0.0			0	0.00			Wall Cond	Wall Cond	0	0	0.00	0.00	0.0	0.0		
Glass/Door Cond		0	0	0	0.0			0	0.00			Partition/Door	Partition/Door	-91	-2,388	-2,388	-2,388	103.66	103.66		
Wall Cond		0	0	0	0.0			0	0.00			Floor	Floor	0	0	0.00	0.00	50	50		
Partition/Door		-91		-91	-7			-91	-26			Adjacent Floor	Adjacent Floor	0	0	0.00	0.00	5	5		
Floor		0		0	0.0			0	0.00			Infiltration	Infiltration	0	0	0.00	0.00	0	0		
Adjacent Floor		0	0	0	0.0			0	0.00			Sub Total ==>	Sub Total ==>	-91	-2,388	-2,388	-2,388	103.66	103.66		
Infiltration		0		0	0.0			0	0.00			Internal Loads	Internal Loads	0	0	0.00	0.00	0	0		
Sub Total ==>		-91	0	-91	-7			-91	-26			Lights	Lights	0	0	0.00	0.00	0	0		
Internal Loads								429	121			People	People	0	0	0.00	0.00	15	50		
Lights		429	107	536	41			429	121			Misc	Misc	0	0	0.00	0.00	15	5		
People		0	0	0	0.0			0	0.00			Sub Total ==>	Sub Total ==>	0	0	0.00	0.00	0	0		
Misc		0	0	0	0.0			0	0.00			Ceiling Load	Ceiling Load	0	0	0.00	0.00	MinStop/Rh	5		
Sub Total ==>		429	107	536	41			429	121			Ventilation Load	Ventilation Load	0	0	0.00	0.00	Return	5		
Ceiling Load		16	-16	0	0.0			16	5			Adj Air Trans Heat	Adj Air Trans Heat	0	0	0.00	0.00	Exhaust	0		
Ventilation Load		0	0	853	66			0	0.00			Ov/Undr Sizing	Ov/Undr Sizing	714	714	-30.99	27.33	Rm Exh	0		
Adj Air Trans Heat		0		0	0.0			0	0.00			Exhaust Heat	Exhaust Heat	0	0	0.00	0.00	Auxiliary	0		
Dehumid. Ov Sizing				0	0.0			0	0.00			OA Preheat Diff.	OA Preheat Diff.	-630	-630	0.00	0.00	Leakage Dwn	0		
Ov/Undr Sizing		0		0	0.0			0	0.00			RA Preheat Diff.	RA Preheat Diff.	0	0	0.00	0.00	Leakage Ups	0		
Exhaust Heat			0	0	0.0			0	0.00			Additional Reheat	Additional Reheat	0	0	0.00	0.00	0	0		
Sup. Fan Heat			0	0	0.0			0	0.00			System Plenum Heat	System Plenum Heat	0	0	0.00	0.00	0	0		
Ret. Fan Heat			0	0	0.0			0	0.00			Underflr Sup Ht Pkup	Underflr Sup Ht Pkup	0	0	0.00	0.00	0	0		
Duct Heat Pkup			0	0	0.0			0	0.00			Supply Air Leakage	Supply Air Leakage	0	0	0.00	0.00	0	0		
Underflr Sup Ht Pkup			0	0	0.0			0	0.00			Grand Total ==>	Grand Total ==>	-1,674	-2,304	100.00	100.00	0	0		
Supply Air Leakage			0	0	0.0			0	0.00												
Grand Total ==>		354	91	1,298	100.00			354	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	ft ²	(%)	MBh	cfm	°F	°F			
Main Clg	0.1	1.3	0.7	15	90.1	77.0	119.7	54.5	53.1	57.9	Floor	157	50	68.6	100.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	624	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	-0.6	15	17.0		
Total	0.1	1.3									ExFlr	0	-0.1	5	54.5		
											Roof	0	0.0	15	2.6		
											Wall	0	0.0	0	0.0		
											Ext Door	0	0.0	0	0.0		
											Total	-2.4					

Room Checksums

By ACADEMIC

220 restroom

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Tot Sens	Percent	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 48				OADB: 17	Space Sens	Tot Sens	Btu/h	(%)	(%)	(%)				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar	0	0	0	0	0			0	0		Envelope Loads	Skylite Solar	0	0	0	0.00				
Skylite Cond	0	0	0	0	0			0	0		Skylite Cond	0	0	0	0	0.00				
Roof Cond	0	0	0	0	0			0	0		Roof Cond	0	0	0	0	0.00				
Glass Solar	0	0	0	0	0			0	0		Glass Solar	0	0	0	0	0.00				
Glass/Door Cond	0	0	0	0	0			0	0		Glass/Door Cond	0	0	0	0	0.00				
Wall Cond	0	0	0	0	0			0	0		Wall Cond	0	0	0	0	0.00				
Partition/Door	0			0	0			0	0		Partition/Door	0	0	0	0	0.00				
Floor	0			0	0			0	0		Floor	0	0	0	0	0.00				
Adjacent Floor	0	0	0	0	0			0	0		Adjacent Floor	0	0	0	0	0.00				
Infiltration	0			0	0			0	0		Infiltration	0	0	0	0	0.00				
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>			<i>0</i>	<i>0</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>				
Internal Loads								Internal Loads				Lights	0	0	0	0.00				
Lights	486	122	608	56				486	95		People	0	0	0	0.00					
People	0	0	0	0				0	0		Misc	0	0	0	0.00					
Misc	0	0	0	0				0	0		<i>Sub Total ==></i>	0	0	0	0.00					
<i>Sub Total ==></i>	<i>486</i>	<i>122</i>	<i>608</i>	<i>56</i>				Ceiling Load			Ceiling Load	0	0	0	0.00					
Ceiling Load	18	-18	0	0				27	5		Ventilation Load	0	0	0	0.00					
Ventilation Load	0	0	484	44				0	0		Adj Air Trans Heat	0	0	0	0.00					
Adj Air Trans Heat	0		0	0				0	0		Ov/Undr Sizing	-225	-225	38.64						
Dehumid. Ov Sizing			0	0				0	0		Exhaust Heat	0	0	0	0.00					
Ov/Undr Sizing	0		0	0				0	0		OA Preheat Diff.	-357	61.36							
Exhaust Heat			0	0				0	0		RA Preheat Diff.	0	0	0	0.00					
Sup. Fan Heat			0	0				0	0		Additional Reheat	0	0	0	0.00					
Ret. Fan Heat			0	0				0	0		System Plenum Heat	0	0	0	0.00					
Duct Heat Pkup			0	0				0	0		Underflr Sup Ht Pkup	0	0	0	0.00					
Underflr Sup Ht Pkup			0	0				0	0		Supply Air Leakage	0	0	0	0.00					
Supply Air Leakage			0	0				Grand Total ==>	513	100.00		Grand Total ==>	-225	-582	100.00					
Grand Total ==>	504	103	1,091	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	cfm	°F	°F							
Main Clg	0.1	1.1	0.8	22	81.2	68.9	86.8	54.5	53.4	59.0	Floor	178	Main Htg	-0.3	13	62.2	85.0
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	-0.4	9	17.0	54.5
Total	0.1	1.1									ExFlr	0	Reheat	-0.1	7	54.5	70.0
											Roof	0	Humidif	0.0	11	2.6	2.7
											Wall	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	Total	-0.7			

Room Checksums

By ACADEMIC

221 cafe

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES									
Peaked at Time:		Mo/Hr: 7 / 14								Mo/Hr: 7 / 15		Mo/Hr: Heating Design								Cooling		Heating																	
Outside Air:		OADB/WB/HR: 91 / 77 / 121								OADB: 91		OADB: 17								SADB		55.0		100.0															
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent Of Total	(%)		Space Sensible	Btu/h	Percent Of Total (%)		Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent Of Total (%)																						
Envelope Loads													Envelope Loads																										
Skylite Solar	0	0			0	0			0	0	0		Skylite Solar	0	0	0	0	0	0																				
Skylite Cond	0	0			0	0			0	0	0		Skylite Cond	0	0	0	0	0	0																				
Roof Cond	0	0			0	0			0	0	0		Roof Cond	0	0	0	0	0	0																				
Glass Solar	0	0			0	0			0	0	0		Glass Solar	0	0	0	0	0	0																				
Glass/Door Cond	0	0			0	0			0	0	0		Glass/Door Cond	0	0	0	0	0	0																				
Wall Cond	0	0			0	0			0	0	0		Wall Cond	0	0	0	0	0	0																				
Partition/Door	-262				-262	-1			-262	-4			Partition/Door	-6,888		-6,888	250.55																						
Floor	0				0	0			0	0			Floor	0		0	0	0	0																				
Adjacent Floor	0	0			0	0			0	0			Adjacent Floor	0		0	0	0	0																				
Infiltration	0				0	0			0	0			Infiltration	0		0	0	0	0																				
<i>Sub Total ==></i>	<i>-262</i>		<i>0</i>		<i>-262</i>	<i>-1</i>			<i>-262</i>	<i>-4</i>			<i>Sub Total ==></i>	<i>-6,888</i>		<i>-6,888</i>	<i>250.55</i>																						
Internal Loads													Internal Loads																										
Lights	819	205			1,024	6			819	13			Lights	0		0	0	0	0																				
People	11,000	0			11,000	62			5,500	90			People	0		0	0	0	0																				
Misc	0	0			0	0			0	0			Misc	0		0	0	0	0																				
<i>Sub Total ==></i>	<i>11,819</i>		<i>205</i>		<i>12,024</i>	<i>67</i>			<i>6,319</i>	<i>103</i>			<i>Sub Total ==></i>	<i>0</i>		<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>																				
Ceiling Load	52	-52			0	0			52	1			Ceiling Load	0		0	0	0	0																				
Ventilation Load	0	0			6,148	34			0	0			Ventilation Load	0		0	0	0	0																				
Adj Air Trans Heat	0				0	0			0	0			Adj Air Trans Heat	0		0	0	0	0																				
Dehumid. Ov Sizing					0	0							Ov/Undr Sizing	4,139		4,139	-150.55																						
Ov/Undr Sizing	0				0	0			0	0			Exhaust Heat	0		0	0.00																						
Exhaust Heat					-86	-86							OA Preheat Diff.	0		0	0.00																						
Sup. Fan Heat					0	0							RA Preheat Diff.	0		0	0.00																						
Ret. Fan Heat	0	0			0	0			0	0			Additional Reheat	0		0	0.00																						
Duct Heat Pkup	0				0	0							System Plenum Heat	0		0	0.00																						
Underflr Sup Ht Pkup					0	0							Underflr Sup Ht Pkup	0		0	0.00																						
Supply Air Leakage	0				0	0							Supply Air Leakage	0		0	0.00																						
<i>Grand Total ==></i>	<i>11,609</i>		<i>67</i>		<i>17,824</i>	<i>100.00</i>			<i>6,109</i>	<i>100.00</i>			<i>Grand Total ==></i>	<i>-2,749</i>		<i>-2,749</i>	<i>100.00</i>																						
COOLING COIL SELECTION										AREAS										HEATING COIL SELECTION																			
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb		Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F																							
Main Clg	1.5	17.8	9.0	274	84.5	73.9	109.3		55.0	54.9	64.3		Floor	300																									
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0		Part	1,800																									
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0		Int Door	0																									
<i>Total</i>	<i>1.5</i>	<i>17.8</i>											ExFlr	0																									
													Roof	0		0	0	0	0																				
													Wall	0		0	0	0	0																				
													Ext Door	0		0	0	0	0																				

Room Checksums

By ACADEMIC

222 admin offices

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 14		OADB: 91				Mo/Hr: Heating Design		OADB: 17				Cooling	Heating	
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent (%)	Space Sensible	Btu/h	Percent (%)	Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent (%)						
Envelope Loads										Envelope Loads										
Skylite Solar	0	0			0	0	0	0	0	Skylite Solar	0	0	0	0	0	0	54.5	100.0		
Skylite Cond	0	0			0	0	0	0	0	Skylite Cond	0	0	0	0	0	0	75.3	70.0		
Roof Cond	0	0			0	0	0	0	0	Roof Cond	0	0	0	0	0	0	75.3	70.0		
Glass Solar	0	0			0	0	0	0	0	Glass Solar	0	0	0	0	0	0	0.0	0.0		
Glass/Door Cond	0	0			0	0	0	0	0	Glass/Door Cond	0	0	0	0	0	0	0.0	0.0		
Wall Cond	0	0			0	0	0	0	0	Wall Cond	0	0	0	0	0	0	0.0	0.0		
Partition/Door	-349				-349	-3	-349		-4	Partition/Door	-9,184		-9,184		97.96		Fn MtrTD	0.0	0.0	
Floor	0				0	0	0	0	0	Floor	0		0	0	0	0	Fn BldTD	0.0	0.0	
Adjacent Floor	0	0			0	0	0	0	0	Adjacent Floor	0		0	0	0	0	Fn Frict	0.0	0.0	
Infiltration	0				0	0	0	0	0	Infiltration	0		0	0	0	0				
<i>Sub Total ==></i>	<i>-349</i>	<i>0</i>	<i>-349</i>	<i>-3</i>	<i>-349</i>	<i>-4</i>	<i>-349</i>	<i>-4</i>	<i>-349</i>	<i>Sub Total ==></i>	<i>-9,184</i>	<i>-9,184</i>	<i>97.96</i>							
Internal Loads							Internal Loads			Internal Loads										
Lights	2,007	502	2,509	20	2,007	25	Lights	0	0	Lights	0	0	0	0	0	0	351	211		
People	2,313	0	2,313	18	1,285	16	People	0	0	People	0	0	0	0	0	0	351	211		
Misc	5,017	0	5,017	40	5,017	62	Misc	0	0	Misc	0	0	0	0	0	0	351	105		
<i>Sub Total ==></i>	<i>9,337</i>	<i>502</i>	<i>9,839</i>	<i>78</i>	<i>8,309</i>	<i>103</i>	<i>Sub Total ==></i>			<i>Sub Total ==></i>							Norm Vent	56	0	
Ceiling Load	75	-75	0	0	75	1	Ceiling Load			Ceiling Load							AHU Vent	56	0	
Ventilation Load	0	0	3,161	25	0	0	Ventilation Load	0	0	Ventilation Load	0	0	0	0	0	0	Infil	0	0	
Adj Air Trans Heat	0				0	0	Adj Air Trans Heat	0		Adj Air Trans Heat	0	0	0	0	0	0	MinStop/Rh	105	105	
Dehumid. Ov Sizing					0	0	Ov/Undr Sizing			Ov/Undr Sizing	2,141		2,141	-22.83			Return	351	105	
Ov/Undr Sizing	0				0	0	Exhaust Heat			Exhaust Heat	0		0	0.00			Exhaust	56	0	
Exhaust Heat					-20	-20	OA Preheat Diff.			OA Preheat Diff.	-2,332		24.87				Rm Exh	0	0	
Sup. Fan Heat					0	0	RA Preheat Diff.			RA Preheat Diff.	0		0.00				Auxiliary	0	0	
Ret. Fan Heat	0	0	0	0			Additional Reheat			Additional Reheat	0		0.00				Leakage Dwn	0	0	
Duct Heat Pkup	0	0	0	0			System Plenum Heat			System Plenum Heat	0		0.00				Leakage Ups	0	0	
Underflr Sup Ht Pkup					0	0	Underflr Sup Ht Pkup			Underflr Sup Ht Pkup	0		0.00							
Supply Air Leakage	0	0	0	0			Supply Air Leakage			Supply Air Leakage	0		0.00							
<i>Grand Total ==></i>	<i>9,063</i>	<i>407</i>	<i>12,630</i>	<i>100.00</i>	<i>8,035</i>	<i>100.00</i>	<i>Grand Total ==></i>			<i>Grand Total ==></i>	<i>-7,044</i>		<i>-9,376</i>	<i>100.00</i>						

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	ft ²	cfm	°F	°F							
Main Clg	1.1	12.6	9.4	351	77.7	65.4	73.9	54.5	53.5	59.8	Floor	735	Main Htg	-8.9	211	62.2	100.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	2,400	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	-2.3	56	17.0	54.5
<i>Total</i>	<i>1.1</i>	<i>12.6</i>									ExFlr	0	Reheat	-1.8	105	54.5	70.0
											Roof	0	Humidif	0.0	70	2.6	2.7
											Wall	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	<i>Total</i>	-11.2			

Room Checksums

By ACADEMIC

301 multipurpose

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Tot Sens	Btu/h	Btu/h	(%)	(%)	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	Btu/h	(%)	(%)	SADB	50.4	100.0	
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total									Ra Plenum	75.5	70.0	
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)								Return	75.5	70.0		
Skylite Solar	0	0	0	0	0			0	0								Ret/OA	82.6	70.0		
Skylite Cond	0	0	0	0	0			0	0								Fn MtrTD	0.0	0.0		
Roof Cond	0	0	0	0	0			0	0								Fn BldTD	0.0	0.0		
Glass Solar	0	0	0	0	0			0	0								Fn Frict	0.0	0.0		
Glass/Door Cond	0	0	0	0	0			0	0												
Wall Cond	0	0	0	0	0			0	0												
Partition/Door	-195			-195	-2			-195	-6												
Floor	0			0	0			0	0												
Adjacent Floor	0	0	0	0	0			0	0												
Infiltration	0			0	0			0	0												
<i>Sub Total ==></i>	<i>-195</i>	<i>0</i>	<i>-195</i>	<i>-2</i>				<i>-195</i>	<i>-6</i>												
Internal Loads																	AIRFLOWS				
Lights	923	231	1,154	13				923	28								Cooling	121	73		
People	4,568	0	4,568	52				2,538	76								Terminal	121	73		
Misc	0	0	0	0				0	0								Main Fan	121	36		
<i>Sub Total ==></i>	<i>5,490</i>	<i>231</i>	<i>5,721</i>	<i>66</i>				<i>3,460</i>	<i>104</i>								Sec Fan	0	36		
Ceiling Load																	Norm Vent	57	0		
Ventilation Load	0	0	3,216	37				54	2								AHU Vent	57	0		
Adj Air Trans Heat	0							0	0								Infil	0	0		
Dehumid. Ov Sizing																	MinStop/Rh	36	36		
Ov/Undr Sizing	0							0	0								Return	121	36		
Exhaust Heat																	Exhaust	57	0		
Sup. Fan Heat																	Rm Exh	0	0		
Ret. Fan Heat	0	0	0	0													Auxiliary	0	0		
Duct Heat Pkup	0	0	0	0													Leakage Dwn	0	0		
Underflr Sup Ht Pkup																	Leakage Ups	0	0		
Supply Air Leakage	0	0	0	0																	
<i>Grand Total ==></i>	<i>5,349</i>	<i>145</i>	<i>8,710</i>	<i>100.00</i>				<i>3,319</i>	<i>100.00</i>												
COOLING COIL SELECTION																	ENGINEERING CKS				
Total Capacity	MBh	Sens Cap.	Coil Airflow	cfm	Enter DB	WB	HR	Leave DB	WB	HR		Gross Total	Glass				Cooling	Heating			
Main Clg	0.7	8.7	4.5	121	82.6	70.2	91.4	50.4	46.4	40.4		Floor	338			% OA	47.0	0.0			
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		Part	1,344			cfm/ft ²	0.36	0.11			
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		Int Door	0			cfm/ton	166.60				
<i>Total</i>	<i>0.7</i>	<i>8.7</i>										ExFlr	0			ft ² /ton	465.69				
												Roof	0	0	0	Btu/hr-ft ²	25.77	-15.79			
												Wall	0	0	0	No. People	10				
												Ext Door	0	0	0						
AREAS						HEATING COIL SELECTION						HEATING COIL SELECTION						Capacity	Coil Airflow	Ent	Lvg
																		MBh	cfm	°F	°F
Main Htg																		-3.2	73	60.2	100.0
Aux Htg																		0.0	0	0.0	0.0
Preheat																		-2.1	57	17.0	50.4
Reheat																		-0.8	36	50.4	70.0
Humidif																		0.0	71	2.6	2.7
Opt Vent																		0.0	0	0.0	0.0
<i>Total</i>																		-5.3			

Room Checksums

By ACADEMIC

302 staff locker room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	50.4	100.0							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Tot Sens	Coil Peak Btu/h	Percent Of Total (%)					Ra Plenum	75.5	70.0					
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	Btu/h	(%)					Return	75.5	70.0					
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0.00					Ret/OA	90.5	70.0					
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0.00					Fn MtrTD	0.0	0.0					
Roof Cond	0	0	0	0	0	0	0	0	0	0	0.00					Fn BldTD	0.0	0.0					
Glass Solar	0	0	0	0	0	0	0	0	0	0	0.00					Fn Frict	0.0	0.0					
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Wall Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Partition/Door	-70			-70	-13	-70	-33	-1,837		-1,837	100.52												
Floor	0			0	0	0	0	0		0	0.00												
Adjacent Floor	0	0	0	0	0	0	0	0		0	0.00												
Infiltration	0			0	0	0	0	0		0	0.00												
<i>Sub Total ==></i>	<i>-70</i>	<i>0</i>	<i>-70</i>	<i>-13</i>		<i>-70</i>	<i>-33</i>	<i>-1,837</i>		<i>-1,837</i>	<i>100.52</i>												
Internal Loads								Internal Loads															
Lights	218	55	273	51		218	104	Lights	0	0	0.00												
People	0	0	0	0		0	0	People	0	0	0.00												
Misc	0	0	0	0		0	0	Misc	0	0	0.00												
<i>Sub Total ==></i>	<i>218</i>	<i>55</i>	<i>273</i>	<i>51</i>		<i>218</i>	<i>104</i>	<i>Sub Total ==></i>		<i>0</i>	<i>0</i>	<i>0.00</i>											
Ceiling Load								Ceiling Load															
Ventilation Load	13	-13	0	0		13	6	Ventilation Load	0	0	0.00												
Adj Air Trans Heat	0	0	333	62		0	0	Adj Air Trans Heat	0	0	0.00												
Dehumid. Ov Sizing								Ov/Undr Sizing	295		295	-16.16											
Ov/Undr Sizing	0							Exhaust Heat	0		0.00												
Exhaust Heat								OA Preheat Diff.	-286		15.64												
Sup. Fan Heat								RA Preheat Diff.	0		0.00												
Ret. Fan Heat	0							Additional Reheat	0		0.00												
Duct Heat Pkup								System Plenum Heat	0		0.00												
Underflr Sup Ht Pkup								Underflr Sup Ht Pkup	0		0.00												
Supply Air Leakage								Supply Air Leakage	0		0.00												
<i>Grand Total ==></i>	<i>161</i>	<i>40</i>	<i>534</i>	<i>100.00</i>		<i>211</i>	<i>100.00</i>	<i>Grand Total ==></i>		<i>-1,542</i>		<i>-1,827</i>	<i>100.00</i>										

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	0.0	0.5	0.3	6	90.5	77.4	121.1	50.4	50.3	54.2		Floor	80				
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	480			Aux Htg	0.0	0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	Int Door	0		Preheat	-0.3	8	17.0		
<i>Total</i>	<i>0.0</i>	<i>0.5</i>							ExFlr	0		Reheat	-0.1	2	50.4		
									Roof	0	0	Humidif	0.0	8	2.6		
									Wall	0	0	Opt Vent	0.0	0	0.0		
									Ext Door	0	0	<i>Total</i>	-1.9				

Room Checksums

By ACADEMIC

303 restroom

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time: Outside Air:		Mo/Hr: 7 / 14 OADB/WB/HR: 91 / 77 / 121				Mo/Hr: 2 / 15 OADB: 48		Mo/Hr: Heating Design OADB: 17				Space Peak Space Sens		Coil Peak Tot Sens		Percent Of Total		Cooling	Heating	
	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Btu/h	Space Sensible	Percent Of Total	Btu/h	Space Sens	Btu/h	Coil Peak Tot Sens	Percent Of Total	(%)							
Envelope Loads									Envelope Loads											
Skylite Solar	0	0	0	0		0	0	0	Skylite Solar	0	0	0	0.00				SADB	50.4	85.0	
Skylite Cond	0	0	0	0		0	0	0	Skylite Cond	0	0	0	0.00				Ra Plenum	75.5	70.0	
Roof Cond	0	0	0	0		0	0	0	Roof Cond	0	0	0	0.00				Return	75.5	70.0	
Glass Solar	0	0	0	0		0	0	0	Glass Solar	0	0	0	0.00				Ret/OA	82.3	70.0	
Glass/Door Cond	0	0	0	0		0	0	0	Glass/Door Cond	0	0	0	0.00				Fn MtrTD	0.0	0.0	
Wall Cond	0	0	0	0		0	0	0	Wall Cond	0	0	0	0.00				Fn BldTD	0.0	0.0	
Partition/Door	0					0	0	0	Partition/Door	0	0	0	0.00				Fn Frict	0.0	0.0	
Floor	0					0	0	0	Floor	0	0	0	0.00							
Adjacent Floor	0	0	0	0		0	0	0	Adjacent Floor	0	0	0	0.00							
Infiltration	0					0	0	0	Infiltration	0	0	0	0.00							
<i>Sub Total ==></i>	0	0	0	0		0	0	0	<i>Sub Total ==></i>	0	0	0	0.00							
Internal Loads									Internal Loads											
Lights	229	57	287	56		229	93	229	Lights	0	0	0	0.00				Diffuser	9	5	
People	0	0	0	0		0	0	0	People	0	0	0	0.00				Terminal	9	5	
Misc	0	0	0	0		0	0	0	Misc	0	0	0	0.00				Main Fan	9	3	
<i>Sub Total ==></i>	229	57	287	56		229	93	<i>Sub Total ==></i>	<i>Sub Total ==></i>	0	0	0	0.00				Sec Fan	0	3	
Ceiling Load	13	-13	0	0		17	7	17	Ceiling Load	0	0	0	0.00				Nom Vent	4	0	
Ventilation Load	0	0	228	44		0	0	0	Ventilation Load	0	0	0	0.00				AHU Vent	4	0	
Adj Air Trans Heat	0					0	0	0	Adj Air Trans Heat	0	0	0	0.00				Infil	0	0	
Dehumid. Ov Sizing						0	0	0	Ov/Undr Sizing	-90	-90	37.50				MinStop/Rh	3	3		
Ov/Undr Sizing	0					0	0	0	Exhaust Heat	0	0	0.00				Return	5	3		
Exhaust Heat						0	0	0	OA Preheat Diff.	-150	62.50					Exhaust	0	0		
Sup. Fan Heat						0	0	0	RA Preheat Diff.	0	0.00					Rm Exh	4	0		
Ret. Fan Heat	0					0	0	0	Additional Reheat	0	0.00					Auxiliary	0	0		
Duct Heat Pkup						0	0	0	System Plenum Heat	0	0.00					Leakage Dwn	0	0		
Underflr Sup Ht Pkup						0	0	0	Underflr Sup Ht Pkup	0	0.00					Leakage Ups	0	0		
Supply Air Leakage						0	0	0	Supply Air Leakage	0	0.00									
<i>Grand Total ==></i>	243	44	515	100.00		246	100.00	<i>Grand Total ==></i>		-90	-240	100.00								

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION						
Total Capacity ton	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 ft ²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	Main Htg	Aux Htg	Preheat	Reheat	Humidif	Opt Vent	Total
Main Clg	0.0	0.5	0.4	9 82.3 70.0 90.6	50.4 50.3 54.2	Floor	84											
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											
<i>Total</i>	0.0	0.5				ExFlr	0											
						Roof	0	0	0									
						Wall	0	0	0									
						Ext Door	0	0	0									

Room Checksums

By ACADEMIC

304 green room flex space

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time: Outside Air:						Mo/Hr: 7 / 14 OADB/WB/HR: 91 / 77 / 121						Mo/Hr: 2 / 15 OADB: 48						Cooling Heating		
	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		Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total		SADB	50.4	85.0	
	Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)		Btu/h	Btu/h	(%)		Ra Plenum	75.5	70.0	
Envelope Loads																	Return	75.5	70.0	
Skylite Solar	0	0	0	0		0	0		0	0	0.00		0	0	0.00		Ret/OA	78.2	70.0	
Skylite Cond	0	0	0	0		0	0		0	0	0.00		0	0	0.00		Fn MtrTD	0.0	0.0	
Roof Cond	0	0	0	0		0	0		0	0	0.00		0	0	0.00		Fn BldTD	0.0	0.0	
Glass Solar	0	0	0	0		0	0		0	0	0.00		0	0	0.00		Fn Frict	0.0	0.0	
Glass/Door Cond	0	0	0	0		0	0		0	0	0.00		0	0	0.00					
Wall Cond	0	0	0	0		0	0		0	0	0.00		0	0	0.00					
Partition/Door	0					0	0		0	0	0.00		0	0	0.00					
Floor	0					0	0		0	0	0.00		0	0	0.00					
Adjacent Floor	0	0	0	0		0	0		0	0	0.00		0	0	0.00					
Infiltration	0					0	0		0	0	0.00		0	0	0.00					
<i>Sub Total ==></i>	0	0	0	0		0	0		0	0	0.00		0	0	0.00					
Internal Loads													Internal Loads							
Lights	399	100	498	19		399	24		Lights	0	0	0.00								
People	459	0	459	18		255	15		People	0	0	0.00								
Misc	997	0	997	39		997	59		Misc	0	0	0.00								
<i>Sub Total ==></i>	1,855	100	1,954	76		1,650	98		<i>Sub Total ==></i>	0	0	0.00								
Ceiling Load	23	-23	0	0		30	2		Ceiling Load	0	0	0.00								
Ventilation Load	0	0	628	24		0	0		Ventilation Load	0	0	0.00								
Adj Air Trans Heat	0					0	0		Adj Air Trans Heat	0	0	0.00								
Dehumid. Ov Sizing						0	0		Ov/Undr Sizing	-614	-614	59.80								
Ov/Undr Sizing	0					0	0		Exhaust Heat	0	0	0.00								
Exhaust Heat			-6	-6		0	0		OA Preheat Diff.	-413	-413	40.20								
Sup. Fan Heat						0	0		RA Preheat Diff.	0	0	0.00								
Ret. Fan Heat	0	0	0	0		0	0		Additional Reheat	0	0	0.00								
Duct Heat Pkup	0	0	0	0		0	0		System Plenum Heat	0	0	0.00								
Underflr Sup Ht Pkup						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>	1,878	70	2,576	100.00		1,680	100.00		<i>Grand Total ==></i>	-614	-1,027	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 ft ²	(%)	Capacity	Coil Airflow	Ent °F	Lvg °F			
ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb			MBh	cfm	°F	°F			
Main Clg	0.2	2.6	1.9	61	78.2	65.8	75.2	50.4	50.3	54.2		Main Htg	-1.0	37	60.2	85.0		
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	-0.4	11	17.0	50.4		
<i>Total</i>	0.2	2.6										Reheat	-0.4	18	50.4	70.0		
												Humidif	0.0	14	2.6	2.7		
												Opt Vent	0.0	0	0.0	0.0		
												<i>Total</i>	-1.4					

Room Checksums

By ACADEMIC

305 1 IT closet

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Tot Sens	Percent	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 48				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	(%)	(%)	SADB	Ra Plenum		
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar	0	0	0	0	0			0	0		Envelope Loads	Skylite Solar	0	0	0	0.00	50.4	85.0		
Skylite Cond	0	0	0	0	0			0	0		Skylite Cond	0	0	0	0	75.5	70.0			
Roof Cond	0	0	0	0	0			0	0		Roof Cond	0	0	0	0	75.5	70.0			
Glass Solar	0	0	0	0	0			0	0		Glass Solar	0	0	0	0	89.2	70.0			
Glass/Door Cond	0	0	0	0	0			0	0		Glass/Door Cond	0	0	0	0	0.0	0.0			
Wall Cond	0	0	0	0	0			0	0		Wall Cond	0	0	0	0	0.0	0.0			
Partition/Door	0			0	0			0	0		Partition/Door	0	0	0	0	0.0	0.0			
Floor	0			0	0			0	0		Floor	0	0	0	0	0.0	0.0			
Adjacent Floor	0	0	0	0	0			0	0		Adjacent Floor	0	0	0	0	0.0	0.0			
Infiltration	0			0	0			0	0		Infiltration	0	0	0	0	0.0	0.0			
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>			<i>0</i>	<i>0</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.0</i>	<i>0.0</i>			
Internal Loads								Internal Loads				Lights	0	0	0	0.00				
Lights	483	121	604	39				483	93		People	0	0	0	0.00					
People	0	0	0	0				0	0		Misc	0	0	0	0.00					
Misc	0	0	0	0				0	0		<i>Sub Total ==></i>	0	0	0	0.00					
<i>Sub Total ==></i>	<i>483</i>	<i>121</i>	<i>604</i>	<i>39</i>				<i>483</i>	<i>93</i>		Ceiling Load	0	0	0	0.00					
Ceiling Load	28	-28	0	0				36	7		Ventilation Load	0	0	0	0.00					
Ventilation Load	0	0	962	61				0	0		Adj Air Trans Heat	0	0	0	0.00					
Adj Air Trans Heat	0		0	0				0	0		Ov/Undr Sizing	-190	-190	23.08						
Dehumid. Ov Sizing			0	0				0	0		Exhaust Heat	0	0	0	0.00					
Ov/Undr Sizing	0		0	0				0	0		OA Preheat Diff.	-632	76.92							
Exhaust Heat			0	0				0	0		RA Preheat Diff.	0	0	0	0.00					
Sup. Fan Heat			0	0				0	0		Additional Reheat	0	0	0	0.00					
Ret. Fan Heat			0	0				0	0		System Plenum Heat	0	0	0	0.00					
Duct Heat Pkup			0	0				0	0		Underflr Sup Ht Pkup	0	0	0	0.00					
Underflr Sup Ht Pkup			0	0				0	0		Supply Air Leakage	0	0	0	0.00					
Supply Air Leakage			0	0				0	0											
Grand Total ==>	512	93	1,566	100.00				519	100.00		Grand Total ==>	-190	-822	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	Ext	Lvg						
ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb								
Main Clg	0.1	1.6	0.9	19	89.2	76.2	116.1	50.4	50.3	54.2		Floor	177	Main Htg	-0.3	11	60.2
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	85.0
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	-0.6	17	70.0
Total	0.1	1.6										ExFlr	0	Reheat	-0.1	6	50.4
												Roof	0	Humidif	0.0	19	2.6
												Wall	0	Opt Vent	0.0	0	2.7
												Ext Door	0	Total	-1.0		0.0

Room Checksums

By ACADEMIC

305 office

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	50.4	100.0							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak Space Sens	Tot Sens	Coil Peak Btu/h	Percent Of Total (%)					Ra Plenum	75.5	70.0					
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	Btu/h	(%)					Return	75.5	70.0					
Skylite Solar	0	0	0	0	0	0	0	0	0	0	0.00					Ret/OA	78.8	70.0					
Skylite Cond	0	0	0	0	0	0	0	0	0	0	0.00					Fn MtrTD	0.0	0.0					
Roof Cond	0	0	0	0	0	0	0	0	0	0	0.00					Fn BldTD	0.0	0.0					
Glass Solar	0	0	0	0	0	0	0	0	0	0	0.00					Fn Frict	0.0	0.0					
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Wall Cond	0	0	0	0	0	0	0	0	0	0	0.00												
Partition/Door	-384			-384	-13	-384	-22	Partition/Door	-10,103	-10,103	129.87												
Floor	0			0	0	0	0	Floor	0	0	0.00												
Adjacent Floor	0	0	0	0	0	0	0	Adjacent Floor	0	0	0.00												
Infiltration	0			0	0	0	0	Infiltration	0	0	0.00												
<i>Sub Total ==></i>	<i>-384</i>	<i>0</i>	<i>-384</i>	<i>-13</i>		<i>-384</i>	<i>-22</i>	<i>Sub Total ==></i>	<i>-10,103</i>	<i>-10,103</i>	<i>129.87</i>												
Internal Loads								Internal Loads															
Lights	500	125	625	22		500	29	Lights	0	0	0.00												
People	576	0	576	20		320	19	People	0	0	0.00												
Misc	1,249	0	1,249	44		1,249	73	Misc	0	0	0.00												
<i>Sub Total ==></i>	<i>2,325</i>	<i>125</i>	<i>2,450</i>	<i>86</i>		<i>2,069</i>	<i>121</i>	<i>Sub Total ==></i>															
Ceiling Load	29	-29	0	0		29	2	Ceiling Load	0	0	0.00												
Ventilation Load	0	0	787	28		0	0	Ventilation Load	0	0	0.00												
Adj Air Trans Heat	0		0	0		0	0	Adj Air Trans Heat	0	0	0												
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	2,841	2,841	-36.52												
Ov/Undr Sizing	0		0	0		0	0	Exhaust Heat	0	0	0.00												
Exhaust Heat			-8	-8		0	0	OA Preheat Diff.	-517	6.65													
Sup. Fan Heat			0	0		0	0	RA Preheat Diff.	0	0.00													
Ret. Fan Heat	0	0	0	0				Additional Reheat	0	0.00													
Duct Heat Pkup	0	0	0	0				System Plenum Heat	0	0.00													
Underflr Sup Ht Pkup			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 ==>	1,970	88	2,845	100.00		1,714	100.00	Grand Total ==>															

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	°F	°F									
Main Clg	0.2	2.8	2.0	62	78.8	66.4	77.5	50.4	50.3	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	0.2	2.8																	
Floor					183		Main Htg	-7.7	217	68.3	100.0								
Part					2,640		Aux Htg	0.0	0	0.0	0.0								
Int Door					0		Preheat	-0.5	14	17.0	50.4								
ExFlr					0		Reheat	-0.4	19	50.4	70.0								
Roof					0	0	Humidif	0.0	17	2.6	2.7								
Wall					0	0	Opt Vent	0.0	0	0.0	0.0								
Ext Door					0	0	Total	-8.2											

Room Checksums

By ACADEMIC

306 electrical room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				Space Peak	Coil Peak	Tot Sens	Percent	Cooling	Heating			
Envelope Loads	Outside Air:	Space Sens. + Lat.	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total Btu/h	Percent (%)	Btu/h	Sensible Btu/h	Percent (%)	Btu/h	Space Sens	Tot Sens	Btu/h	(%)	SADB		50.4	85.0		
Skylite Solar	0	0	0	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00	Ra Plenum	75.5	70.0		
Skylite Cond	0	0	0	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00	Return	75.5	70.0		
Roof Cond	0	0	0	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00	Ret/OA	89.2	70.0		
Glass Solar	0	0	0	0	0	0	0	0	0	0	Glass Solar	0	0	0	0.00	Fn MtrTD	0.0	0.0		
Glass/Door Cond	0	0	0	0	0	0	0	0	0	0	Glass/Door Cond	0	0	0	0.00	Fn BldTD	0.0	0.0		
Wall Cond	0	0	0	0	0	0	0	0	0	0	Wall Cond	0	0	0	0.00	Fn Frict	0.0	0.0		
Partition/Door	0	0	0	0	0	0	0	0	0	0	Partition/Door	0	0	0	0.00					
Floor	0	0	0	0	0	0	0	0	0	0	Floor	0	0	0	0.00					
Adjacent Floor	0	0	0	0	0	0	0	0	0	0	Adjacent Floor	0	0	0	0.00					
Infiltration	0	0	0	0	0	0	0	0	0	0	Infiltration	0	0	0	0.00					
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>					
Internal Loads											Internal Loads					AIRFLOWS				
Lights	218	55	273	39			218	93			Lights	0	0	0	0.00	Diffuser	9	5		
People	0	0	0	0			0	0			People	0	0	0	0.00	Terminal	9	5		
Misc	0	0	0	0			0	0			Misc	0	0	0	0.00	Main Fan	9	3		
<i>Sub Total ==></i>	<i>218</i>	<i>55</i>	<i>273</i>	<i>39</i>			<i>218</i>	<i>93</i>			<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>	Sec Fan	0	3		
Ceiling Load	13	-13	0	0			16	7			Ceiling Load	0	0	0	0.00	Nom Vent	8	0		
Ventilation Load	0	0	435	61			0	0			Ventilation Load	0	0	0	0.00	AHU Vent	8	0		
Adj Air Trans Heat	0	0	0	0			0	0			Adj Air Trans Heat	0	0	0	0.00	Infil	0	0		
Dehumid. Ov Sizing	0	0	0	0			0	0			Ov/Undr Sizing	-86	-86	23.07		MinStop/Rh	3	3		
Ov/Undr Sizing	0	0	0	0			0	0			Exhaust Heat	0	0	0.00		Return	1	3		
Exhaust Heat	0	0	0	0			0	0			OA Preheat Diff.	-286	76.93			Exhaust	0	0		
Sup. Fan Heat	0	0	0	0			0	0			RA Preheat Diff.	0	0.00			Rm Exh	8	0		
Ret. Fan Heat	0	0	0	0			0	0			Additional Reheat	0	0.00			Auxiliary	0	0		
Duct Heat Pkup	0	0	0	0			0	0			System Plenum Heat	0	0.00			Leakage Dwn	0	0		
Underflr Sup Ht Pkup	0	0	0	0			0	0			Underflr Sup Ht Pkup	0	0.00			Leakage Ups	0	0		
Supply Air Leakage	0	0	0	0			0	0			Supply Air Leakage	0	0.00							
Grand Total ==>	231	42	708	100.00			235	100.00			Grand Total ==>	-86	-371	100.00		ENGINEERING CKS				
Total Capacity	0.1	0.7	0.4		8	89.2	76.2	116.1		50.4	50.3	54.2			Cooling	Heating				
Sens Cap.	0.0	0.0	0.0		0	0.0	0.0	0.0		0.0	0.0	0.0			% OA	89.8	0.0			
Coil Airflow	0.0	0.0	0.0		0	0.0	0.0	0.0		0.0	0.0	0.0			cfm/ft ²	0.11	0.03			
Enter DB/WB/HR	89.2	76.2	116.1		50.4	50.3	54.2								cfm/ton	144.97				
Leave DB/WB/HR	50.4	50.3	54.2												ft ² /ton	1,356.54				
gr/lb															Btu/hr-ft ²	8.85	-5.35			
Gross Total	80														No. People	0				
Glass (%)																				

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity	Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Leave DB/WB/HR °F	Gross Total ft ²	Glass (%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F						
Main Clg	0.1	0.7	0.4	89.2	76.2	116.1	50.4	50.3	54.2	5	60.2	85.0	Main Htg	-0.1			
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	Aux Htg	0.0	0.0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	-0.3	8	17.0	50.4	Preheat			
Total	0.1	0.7	0.4	89.2	76.2	116.1	50.4	50.3	54.2	5	60.2	85.0	Humidif	0.0	9	2.6	2.7
													Opt Vent	0.0	0	0.0	0.0
													Total	-0.4			

Room Checksums

By ACADEMIC

307 corridor

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Outside Air:		OADB/WB/HR: 91 / 77 / 121				OADB: 91		OADB: 17				SADB		Ra Plenum									
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)										
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	0			0	0		0	0		Roof Cond	0	0	0.00									
Glass Solar	0	0			0	0		0	0		Glass Solar	0	0	0.00									
Glass/Door Cond	0	0			0	0		0	0		Glass/Door Cond	0	0	0.00									
Wall Cond	0	0			0	0		0	0		Wall Cond	0	0	0.00									
Partition/Door	-105				-105	-2		-105	-3		Partition/Door	-2,755		-2,755	88.70								
Floor	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		Infiltration	0		0	0.00								
<i>Sub Total ==></i>	<i>-105</i>	<i>0</i>			<i>-105</i>	<i>-2</i>		<i>-105</i>	<i>-3</i>		<i>Sub Total ==></i>	<i>-2,755</i>		<i>-2,755</i>	<i>88.70</i>								
Internal Loads											Internal Loads												
Lights	775	194			969	20		775	25		Lights	0		0	0.00								
People	894	0			894	18		497	16		People	0		0	0.00								
Misc	1,939	0			1,939	40		1,939	62		Misc	0		0	0.00								
<i>Sub Total ==></i>	<i>3,608</i>	<i>194</i>			<i>3,802</i>	<i>77</i>		<i>3,211</i>	<i>102</i>		<i>Sub Total ==></i>	<i>0</i>		<i>0</i>	<i>0.00</i>								
Ceiling Load	45	-45			0	0		45	1		Ceiling Load	0		0	0.00								
Ventilation Load	0	0			1,221	25		0	0		Ventilation Load	0		0	0.00								
Adj Air Trans Heat	0				0	0		0	0		Adj Air Trans Heat	0		0	0.00								
Dehumid. Ov Sizing					0	0					Ov/Undr Sizing	452		452	-14.54								
Ov/Undr Sizing	0				0	0		0	0		Exhaust Heat	0		0	0.00								
Exhaust Heat					-12	-12		0	0		OA Preheat Diff.	-803		25.84									
Sup. Fan Heat					0	0					RA Preheat Diff.	0		0	0.00								
Ret. Fan Heat	0	0			0	0					Additional Reheat	0		0	0.00								
Duct Heat Pkup	0	0			0	0					System Plenum Heat	0		0	0.00								
Underflr Sup Ht Pkup					0	0					Underflr Sup Ht Pkup	0		0	0.00								
Supply Air Leakage	0	0			0	0					Supply Air Leakage	0		0	0.00								
<i>Grand Total ==></i>	<i>3,549</i>	<i>136</i>			<i>4,906</i>	<i>100.00</i>		<i>3,151</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-2,304</i>		<i>-3,106</i>	<i>100.00</i>								

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION							
Total Capacity ton	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 ft ²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	Main Htg	Aux Htg	Preheat	Reheat	Humidif	Opt Vent	Total	
Main Clg	0.4	4.9	3.7	115 78.3 65.9 75.6	50.4 50.3 54.2	Floor	284												
Aux Clg	0.0	0.0	0.0	0 0.0 0.0 0.0	0.0 0.0 0.0	Part	720												
Opt Vent	0.0	0.0	0.0	0 0.0 0.0 0.0	0.0 0.0 0.0	Int Door	0												
<i>Total</i>	<i>0.4</i>	<i>4.9</i>				ExFlr	0												
						Roof	0	0	0										
						Wall	0	0	0										
						Ext Door	0	0	0										

Room Checksums

By ACADEMIC

308 exhibit support

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Tot Sens	Btu/h	Btu/h	(%)	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	Btu/h	(%)				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar	0	0	0	0	0			0	0		Envelope Loads	Skylite Solar	0	0	0	0	0.00			
Skylite Cond	0	0	0	0	0			0	0		Skylite Cond	0	0	0	0	0	0.00			
Roof Cond	0	0	0	0	0			0	0		Roof Cond	0	0	0	0	0	0.00			
Glass Solar	0	0	0	0	0			0	0		Glass Solar	0	0	0	0	0	0.00			
Glass/Door Cond	0	0	0	0	0			0	0		Glass/Door Cond	0	0	0	0	0	0.00			
Wall Cond	0	0	0	0	0			0	0		Wall Cond	0	0	0	0	0	0.00			
Partition/Door	-785		-785	-3				-785	-5		Partition/Door	-20,665	-20,665	143.29						
Floor	0		0	0				0	0		Floor	0	0	0	0	0	0.00			
Adjacent Floor	0	0	0	0	0			0	0		Adjacent Floor	0	0	0	0	0	0.00			
Infiltration	0		0	0				0	0		Infiltration	0	0	0	0	0	0.00			
<i>Sub Total ==></i>	<i>-785</i>	<i>0</i>	<i>-785</i>	<i>-3</i>				<i>-785</i>	<i>-5</i>		<i>Sub Total ==></i>	<i>-20,665</i>	<i>-20,665</i>	<i>143.29</i>						
Internal Loads											Internal Loads									
Lights	3,653	913	4,567	20				3,653	25		Lights	0	0	0	0.00					
People	4,210	0	4,210	18				2,339	16		People	0	0	0	0.00					
Misc	9,133	0	9,133	40				9,133	63		Misc	0	0	0	0.00					
<i>Sub Total ==></i>	<i>16,997</i>	<i>913</i>	<i>17,910</i>	<i>78</i>				<i>15,126</i>	<i>104</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>					
Ceiling Load	214	-214	0	0				214	1		Ceiling Load	0	0	0	0.00					
Ventilation Load	0	0	5,753	25				0	0		Ventilation Load	0	0	0	0.00					
Adj Air Trans Heat	0		0	0				0	0		Adj Air Trans Heat	0	0	0	0.00					
Dehumid. Ov Sizing			0	0							Ov/Undr Sizing	10,025	10,025	-69.52						
Ov/Undr Sizing	0		0	0				0	0		Exhaust Heat	0	0	0	0.00					
Exhaust Heat			-57	-57	0						OA Preheat Diff.	-3,782	26.22							
Sup. Fan Heat			0	0							RA Preheat Diff.	0	0.00							
Ret. Fan Heat	0	0	0	0							Additional Reheat	0	0.00							
Duct Heat Pkup	0	0	0	0							System Plenum Heat	0	0.00							
Underflr Sup Ht Pkup			0	0							Underflr Sup Ht Pkup	0	0.00							
Supply Air Leakage	0	0	0	0							Supply Air Leakage	0	0.00							
<i>Grand Total ==></i>	<i>16,426</i>	<i>642</i>	<i>22,821</i>	<i>100.00</i>				<i>14,555</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-10,640</i>	<i>-14,421</i>	<i>100.00</i>						

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	cfm	°F	°F							
Main Clg	1.9	22.8	17.0	530	78.4	65.9	75.8	50.4	50.3	54.2	Floor	1,338		Main Htg	-14.1	318	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	5,400		Aux Htg	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	-3.8	102	
<i>Total</i>	<i>1.9</i>	<i>22.8</i>									ExFlr	0		Reheat	-3.5	159	
											Roof	0	0	Humidif	0.0	127	
											Wall	0	0	Opt Vent	0.0	0.0	
											Ext Door	0	0	<i>Total</i>	<i>-17.9</i>		

Room Checksums

By ACADEMIC

309 storage

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES									
Peaked at Time: Outside Air:				Mo/Hr: 7 / 14 OADB/WB/HR: 91 / 77 / 121						Mo/Hr: 2 / 15 OADB: 48				Mo/Hr: Heating Design OADB: 17						Cooling				Heating															
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)								
Envelope Loads													Envelope Loads																										
Skylite Solar	0	0	0	0		0	0		0	0	0		Skylite Solar	0	0	0	0.00		SADB	50.4	85.0																		
Skylite Cond	0	0	0	0		0	0		0	0	0		Skylite Cond	0	0	0	0.00		Ra Plenum	75.5	70.0																		
Roof Cond	0	0	0	0		0	0		0	0	0		Roof Cond	0	0	0	0.00		Return	75.5	70.0																		
Glass Solar	0	0	0	0		0	0		0	0	0		Glass Solar	0	0	0	0.00		Ret/OA	89.2	70.0																		
Glass/Door Cond	0	0	0	0		0	0		0	0	0		Glass/Door Cond	0	0	0	0.00		Fn MtrTD	0.0	0.0																		
Wall Cond	0	0	0	0		0	0		0	0	0		Wall Cond	0	0	0	0.00		Fn BldTd	0.0	0.0																		
Partition/Door	0					0	0		0	0	0		Partition/Door	0	0	0	0.00		Fn Frict	0.0	0.0																		
Floor	0					0	0		0	0	0		Floor	0	0	0	0.00																						
Adjacent Floor	0	0	0	0		0	0		0	0	0		Adjacent Floor	0	0	0	0.00																						
Infiltration	0					0	0		0	0	0		Infiltration	0	0	0	0.00																						
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>		<i>0</i>	<i>0</i>		<i>0</i>	<i>0</i>	<i>0</i>		<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>																						
Internal Loads													Internal Loads						Diffuser	7	4																		
Lights	172	43	215	39		172	93						Lights	0	0	0	0.00		Terminal	7	4																		
People	0	0	0	0		0	0		0	0	0		People	0	0	0	0.00		Main Fan	7	2																		
Misc	0	0	0	0		0	0		0	0	0		Misc	0	0	0	0.00		Sec Fan	0	2																		
<i>Sub Total ==></i>	<i>172</i>	<i>43</i>	<i>215</i>	<i>39</i>		<i>172</i>	<i>93</i>						<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0.00</i>		Nom Vent	6	0																		
Ceiling Load	10	-10	0	0		13	7						Ceiling Load	0	0	0	0.00		AHU Vent	6	0																		
Ventilation Load	0	0	342	61		0	0		0	0	0		Ventilation Load	0	0	0	0.00		Infil	0	0																		
Adj Air Trans Heat	0					0	0		0	0	0		Adj Air Trans Heat	0	0	0	0.00		MinStop/Rh	2	2																		
Dehumid. Ov Sizing						0	0		0	0	0		Ov/Undr Sizing	-67	-67	-67	23.07		Return	1	2																		
Ov/Undr Sizing	0					0	0		0	0	0		Exhaust Heat	0	0	0	0.00		Exhaust	0	0																		
Exhaust Heat						0	0		0	0	0		OA Preheat Diff.	-225	-225	-225	76.93		Rm Exh	6	0																		
Sup. Fan Heat						0	0		0	0	0		RA Preheat Diff.	0	0	0	0.00		Auxiliary	0	0																		
Ret. Fan Heat	0	0	0	0		0	0		0	0	0		Additional Reheat	0	0	0	0.00		Leakage Dwn	0	0																		
Duct Heat Pkup	0					0	0		0	0	0		System Plenum Heat	0	0	0	0.00		Leakage Ups	0	0																		
Underflr Sup Ht Pkup						0	0		0	0	0		Underflr Sup Ht Pkup	0	0	0	0.00		Supply Air Leakage	0	0																		
Supply Air Leakage	0					0	0		0	0	0		Supply Air Leakage	0	0	0	0.00																						
<i>Grand Total ==></i>	<i>182</i>	<i>33</i>	<i>557</i>	<i>100.00</i>		<i>185</i>	<i>100.00</i>						<i>Grand Total ==></i>	<i>-67</i>	<i>-67</i>	<i>-293</i>	<i>100.00</i>																						
COOLING COIL SELECTION										AREAS										HEATING COIL SELECTION																			
Total Capacity ton	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 ft ²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F																												
Main Clg	0.1	0.6	7 89.2 76.2 116.1	50.4 50.3 54.2	Floor	63		Main Htg	-0.1	4	60.2	85.0																											
Aux Clg	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	Int Door	0		Preheat	-0.2	6	17.0	50.4																											
<i>Total</i>	<i>0.1</i>	<i>0.6</i>			ExFlr	0		Reheat	0.0	2	50.4	70.0																											
					Roof	0	0	Humidif	0.0	7	2.6	2.7																											
					Wall	0	0	Opt Vent	0.0	0	0.0	0.0																											
					Ext Door	0	0	<i>Total</i>	<i>-0.3</i>																														

Room Checksums

By ACADEMIC

310 hall of remembrance

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Percent			Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				Space Sens	Tot Sens	(%)				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total			Space Peak	Space Sens	Coil Peak	Percent					
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)			Btu/h	Btu/h	Btu/h	(%)					
Skylite Solar	0	0	0	0	0			0	0			Skylite Solar	0	0	0.00			SADB	50.4	85.0
Skylite Cond	0	0	0	0	0			0	0			Skylite Cond	0	0	0.00			Ra Plenum	75.5	70.0
Roof Cond	0	0	0	0	0			0	0			Roof Cond	0	0	0.00			Return	75.5	70.0
Glass Solar	0	0	0	0	0			0	0			Glass Solar	0	0	0.00			Ret/OA	80.1	70.0
Glass/Door Cond	0	0	0	0	0			0	0			Glass/Door Cond	0	0	0.00			Fn MtrTD	0.0	0.0
Wall Cond	0	0	0	0	0			0	0			Wall Cond	0	0	0.00			Fn BldTD	0.0	0.0
Partition/Door	-523		-523	0				-523	-1			Partition/Door	-13,777	-13,777	27.72			Fn Frict	0.0	0.0
Floor	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			Infiltration	0	0	0.00					
<i>Sub Total ==></i>	<i>-523</i>	<i>0</i>	<i>-523</i>	<i>0</i>				<i>-523</i>	<i>-1</i>			<i>Sub Total ==></i>	<i>-13,777</i>	<i>-13,777</i>	<i>27.72</i>					
Internal Loads												Internal Loads								
Lights	2,725	681	3,406	3				2,725	4			Lights	0	0	0.00			AIRFLOWS		
People	49,500	0	49,500	39				27,500	43			People	0	0	0.00			Diffuser	2,329	1,397
Misc	34,062	0	34,062	27				34,062	53			Misc	0	0	0.00			Terminal	2,329	1,397
<i>Sub Total ==></i>	<i>86,287</i>	<i>681</i>	<i>86,968</i>	<i>69</i>				<i>64,287</i>	<i>101</i>			<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>			Main Fan	2,329	699
Ceiling Load	160	-160	0	0				160	0			Ceiling Load	0	0	0.00			Sec Fan	0	699
Ventilation Load	0	0	40,061	32				0	0			Ventilation Load	0	0	0.00			Norm Vent	708	0
Adj Air Trans Heat	0		0	0				0	0			Adj Air Trans Heat	0	0	0.00			AHU Vent	708	0
Dehumid. Ov Sizing			0	0								Ov/Undr Sizing	-9,587	-9,587	19.29			Infil	0	0
Ov/Undr Sizing	0		0	0				0	0			Exhaust Heat	0	0	0.00			MinStop/Rh	699	699
Exhaust Heat		-399	-399	0								OA Preheat Diff.	-26,338	-26,338	52.99			Return	2,329	699
Sup. Fan Heat			0	0								RA Preheat Diff.	0	0	0.00			Exhaust	708	0
Ret. Fan Heat	0	0	0	0								Additional Reheat	0	0	0.00			Rm Exh	0	0
Duct Heat Pkup	0	0	0	0								System Plenum Heat	0	0	0.00			Auxiliary	0	0
Underflr Sup Ht Pkup			0	0								Underflr Sup Ht Pkup	0	0	0.00			Leakage Dwn	0	0
Supply Air Leakage	0	0	0	0								Supply Air Leakage	0	0	0.00			Leakage Ups	0	0
Grand Total ==>	85,923	123	126,108	100.00				63,923	100.00			Grand Total ==>	-23,364	-49,702	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	cfm	°F	°F								
Main Clg	10.5	126.1	76.3	2,329	80.1	67.7	82.1	50.4	49.8	52.4	Floor	998		Main Htg	-38.7	1,397	60.2	85.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	3,600		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	-26.3	708	17.0	50.4
Total	10.5	126.1									ExFlr	0		Reheat	-15.3	699	50.4	70.0
											Roof	0	0	Humidif	-0.1	885	2.6	2.7
											Wall	0	0	Opt Vent	0.0	0	0.0	0.0
											Ext Door	0	0	Total	-65.0			

Room Checksums

By ACADEMIC

311 changing exhibits

	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	MBh	cfm	°F	Lvg	
	ton	MBh	MBh	cfm	°F	°F	gr/lb	ft ²	(%)	MBh	cfm	°F	Lvg		
Main Clg	11.2	134.5	102.7	4,073	77.1	64.7	71.7	54.5	53.8	60.7	Floor	2,124	62.0	2,444	62.2
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	8,496	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	-20.2	485	17.0
											ExFlr	0	-21.2	1,222	54.5
											Roof	0	0	606	2.6
											Humidif	0.0	0.0	0.0	2.7
											Wall	0	0	0	0.0
											Ext Door	0	0	0	0.0
Total	11.2	134.5									Total	-82.3			

Room Checksums

By ACADEMIC

313 restroom

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES									
Peaked at Time:		Mo/Hr: 7 / 14								Mo/Hr: 2 / 15		Mo/Hr: Heating Design								Cooling		Heating																	
Outside Air:		OADB/WB/HR: 91 / 77 / 121								OADB: 48		OADB: 17								SADB		Ra Plenum		Return		Ret/OA		Fn MtrTD		Fn BldTD		Fn Frict							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Btu/h	Percent Total (%)					Space Sensible Btu/h	Percent Of Total (%)					Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)																					
Envelope Loads																Envelope Loads																							
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	0	0	0	0					0	0					Roof Cond	0	0	0.00																				
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					Partition/Door	0	0	0.00																				
Floor	0									0	0					Floor	0	0	0.00																				
Adjacent Floor	0	0	0	0	0					0	0					Adjacent Floor	0	0	0.00																				
Infiltration	0									0	0					Infiltration	0	0	0.00																				
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>					<i>0</i>	<i>0</i>					<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>																				
Internal Loads																Internal Loads																							
Lights	472	118	590	56						472	95					Lights	0	0	0.00																				
People	0	0	0	0						0	0					People	0	0	0.00																				
Misc	0	0	0	0						0	0					Misc	0	0	0.00																				
<i>Sub Total ==></i>	<i>472</i>	<i>118</i>	<i>590</i>	<i>56</i>						<i>472</i>	<i>95</i>					<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>																				
Ceiling Load	18	-18	0	0						26	5					Ceiling Load	0	0	0.00																				
Ventilation Load	0	0	470	44						0	0					Ventilation Load	0	0	0.00																				
Adj Air Trans Heat	0									0	0					Adj Air Trans Heat	0	0	0.00																				
Dehumid. Ov Sizing																Ov/Undr Sizing	-218																						
Ov/Undr Sizing	0									0	0					Exhaust Heat	0	0	0.00																				
Exhaust Heat																OA Preheat Diff.	-347																						
Sup. Fan Heat																RA Preheat Diff.	0	0	0.00																				
Ret. Fan Heat	0															Additional Reheat	0	0	0.00																				
Duct Heat Pkup	0															System Plenum Heat	0	0	0.00																				
Underflr Sup Ht Pkup																Underflr Sup Ht Pkup	0	0	0.00																				
Supply Air Leakage	0															Supply Air Leakage	0	0	0.00																				
<i>Grand Total ==></i>	<i>490</i>	<i>100</i>	<i>1,060</i>	<i>100.00</i>						<i>498</i>	<i>100.00</i>					<i>Grand Total ==></i>	<i>-218</i>																						
COOLING COIL SELECTION																AREAS																							
Total Capacity	0.1	1.1	0.7							21	81.2	68.9	86.8			Leave DB/WB/HR	54.5	53.4	59.0																				
Sens Cap.	MBh	MBh	MBh							cfm	°F	°F	gr/lb				°F	°F	gr/lb																				
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																				
<i>Total</i>	<i>0.1</i>	<i>1.1</i>	<i>0.7</i>																																				
HEATING COIL SELECTION																Capacity	MBh	Coil Airflow	cfm	Ent	°F	Lvg	°F																
Floor																Gross Total	173																						
Part																Glass	ft ²	(%)																					
Int Door																Main Htg	-0.3																						
ExFlr																Aux Htg	0.0																						
Roof																Preheat	-0.4																						
Wall																Reheat	-0.1																						
Ext Door																Humidif	0.0																						
																Opt Vent	0.0																						
																Total	-0.7																						

Room Checksums

By ACADEMIC

314 restroom

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 2 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Tot Sens	Btu/h	(%)	(%)	Cooling	Heating	
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 48				OADB: 17	Space Sens	Space Sens	Tot Sens	Btu/h	(%)	(%)	(%)	SADB	54.5	85.0
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total									Ra Plenum	75.3	70.0
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)								Return	75.3	70.0	
Skylite Solar	0	0	0	0	0			0	0								Ret/OA	81.2	70.0	
Skylite Cond	0	0	0	0	0			0	0								Fn MtrTD	0.0	0.0	
Roof Cond	0	0	0	0	0			0	0								Fn BldTD	0.0	0.0	
Glass Solar	0	0	0	0	0			0	0								Fn Frict	0.0	0.0	
Glass/Door Cond	0	0	0	0	0			0	0											
Wall Cond	0	0	0	0	0			0	0											
Partition/Door	0			0	0			0	0											
Floor	0			0	0			0	0											
Adjacent Floor	0	0	0	0	0			0	0											
Infiltration	0			0	0			0	0											
<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>			<i>0</i>	<i>0</i>											
Internal Loads																	AIRFLOWS			
Lights	748	187	935	56				748	95								Cooling	Heating		
People	0	0	0	0				0	0								Diffuser	34	21	
Misc	0	0	0	0				0	0								Terminal	34	21	
<i>Sub Total ==></i>	<i>748</i>	<i>187</i>	<i>935</i>	<i>56</i>				<i>748</i>	<i>95</i>								Main Fan	34	10	
Ceiling Load	28	-28	0	0				41	5								Sec Fan	0	10	
Ventilation Load	0	0	744	44				0	0								Norm Vent	13	0	
Adj Air Trans Heat	0			0	0			0	0								AHU Vent	13	0	
Dehumid. Ov Sizing				0	0												Infil	0	0	
Ov/Undr Sizing	0			0	0			0	0								MinStop/Rh	10	10	
Exhaust Heat				0	0												Return	21	10	
Sup. Fan Heat				0	0												Exhaust	0	0	
Ret. Fan Heat	0			0	0												Rm Exh	13	0	
Duct Heat Pkup				0	0												Auxiliary	0	0	
Underflr Sup Ht Pkup				0	0												Leakage Dwn	0	0	
Supply Air Leakage				0	0												Leakage Ups	0	0	
<i>Grand Total ==></i>	<i>776</i>	<i>159</i>	<i>1,680</i>	<i>100.00</i>				<i>789</i>	<i>100.00</i>											

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	ft ²	MBh	cfm	°F	°F			
Main Clg	0.1	1.7	1.2	34	81.2	68.9	86.8	54.5	53.4	59.0	Floor	274	-0.5	21	62.2	85.0	
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	-0.6	13	17.0	54.5	
<i>Total</i>	<i>0.1</i>	<i>1.7</i>									ExFlr	0	-0.2	10	54.5	70.0	
											Roof	0	0.0	16	2.6	2.7	
											Humidif	0.0	0.0	0	0.0	0.0	
											Opt Vent	0.0	0.0	0	0.0	0.0	
											<i>Total</i>	<i>-1.1</i>					

Room Checksums

By ACADEMIC

315 office

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES									
Peaked at Time:			Mo/Hr: 7 / 14							Mo/Hr: 7 / 15			Mo/Hr: Heating Design							Cooling			Heating			SADB			Ra Plenum										
Outside Air:			OADB/WB/HR: 91 / 77 / 121							OADB: 91			OADB: 17							SADB			Ra Plenum			Return			75.3										
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent Of Total				Space Sensible	Btu/h	Percent Of Total				Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total		Cooling	Heating																		
Envelope Loads																																							
Skylite Solar	0	0			0	0				0	0																												
Skylite Cond	0	0			0	0				0	0																												
Roof Cond	0	0			0	0				0	0																												
Glass Solar	0	0			0	0				0	0																												
Glass/Door Cond	0	0			0	0				0	0																												
Wall Cond	0	0			0	0				0	0																												
Partition/Door	-44				-44	-2				-44	-3																												
Floor	0				0	0				0	0																												
Adjacent Floor	0	0			0	0				0	0																												
Infiltration	0				0	0				0	0																												
<i>Sub Total ==></i>	<i>-44</i>	<i>0</i>			<i>-44</i>	<i>-2</i>				<i>-44</i>	<i>-3</i>																												
Internal Loads																																							
Lights	404	101			505	20				404	25																												
People	466	0			466	18				259	16																												
Misc	1,010	0			1,010	39				1,010	61																												
<i>Sub Total ==></i>	<i>1,880</i>	<i>101</i>			<i>1,981</i>	<i>77</i>				<i>1,673</i>	<i>102</i>																												
Ceiling Load																																							
Ventilation Load	15	-15			0	0				15	1																												
Adj Air Trans Heat	0	0			636	25				0	0																												
Dehumid. Ov Sizing																																							
Ov/Undr Sizing	0									0	0																												
Exhaust Heat										-4	-4	0																											
Sup. Fan Heat																																							
Ret. Fan Heat	0	0			0	0																																	
Duct Heat Pkup	0	0			0	0																																	
Underflr Sup Ht Pkup																																							
Supply Air Leakage	0	0			0	0																																	
<i>Grand Total ==></i>	<i>1,852</i>	<i>82</i>			<i>2,570</i>	<i>100.00</i>				<i>1,645</i>	<i>100.00</i>																												
COOLING COIL SELECTION																																							
Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR	Leave DB/WB/HR	Gross Total	Glass (%)																																	
ton	MBh	MBh	cfm	°F °F gr/lb		ft ²	(%)																																
Main Clg	0.2	2.6	1.9	72 77.7 65.3	73.8	54.5 53.6	59.9																																
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																																
<i>Total</i>	<i>0.2</i>	<i>2.6</i>																																					
AREAS																																							
Floor																																							
Part																																							
Int Door																																							
ExFlr																																							
Roof																																							
Wall																																							
Ext Door																																							
HEATING COIL SELECTION																																							
Capacity	Coil Airflow	Ent	Lvg																																				
MBh	cfm	°F	°F																																				
Main Htg																																							
Aux Htg																																							
Preheat																																							
Reheat																																							
Humidif																																							
Opt Vent																																							
<i>Total</i>	<i>-2.0</i>																																						

Room Checksums

By ACADEMIC

317 exhibit AV

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Btu/h	Btu/h	(%)	(%)	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				Space Sens	Space Sens	Btu/h	Btu/h	(%)	(%)	SADB	SADB
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											Ra Plenum	Ra Plenum
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)										Return	Return	
Skylite Solar		0	0	0	0			0	0										75.8	70.0	
Skylite Cond		0	0	0	0			0	0										75.8	70.0	
Roof Cond		0	0	0	0			0	0										78.4	70.0	
Glass Solar		0	0	0	0			0	0										0.0	0.0	
Glass/Door Cond		0	0	0	0			0	0										0.0	0.0	
Wall Cond		0	0	0	0			0	0										0.0	0.0	
Partition/Door	-167			-167	-5			-167	-8										Fn MtrTD	Fn MtrTD	
Floor	0			0	0			0	0										Fn BldTD	Fn BldTD	
Adjacent Floor	0	0		0	0			0	0										Fn Frict	Fn Frict	
Infiltration	0			0	0			0	0												
<i>Sub Total ==></i>	<i>-167</i>	<i>0</i>	<i>-167</i>	<i>-5</i>	<i></i>	<i></i>	<i></i>	<i>-167</i>	<i>-8</i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	
Internal Loads																					
Lights	524	131	655	19				524	26												
People	604	0	604	18				336	16												
Misc	1,311	0	1,311	39				1,311	64												
<i>Sub Total ==></i>	<i>2,439</i>	<i>131</i>	<i>2,570</i>	<i>76</i>	<i></i>	<i></i>	<i></i>	<i>2,170</i>	<i>106</i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	
Ceiling Load	47	-47	0	0				47	2												
Ventilation Load	0	0	979	29				0	0												
Adj Air Trans Heat	0		0	0				0	0												
Dehumid. Ov Sizing			0	0																	
Ov/Undr Sizing	0		0	0				0	0												
Exhaust Heat		-15	-15	0																	
Sup. Fan Heat			0	0																	
Ret. Fan Heat	0	0	0	0																	
Duct Heat Pkup	0	0	0	0																	
Underflr Sup Ht Pkup			0	0																	
Supply Air Leakage	0	0	0	0																	
<i>Grand Total ==></i>	<i>2,319</i>	<i>69</i>	<i>3,366</i>	<i>100.00</i>	<i></i>	<i></i>	<i></i>	<i>2,050</i>	<i>100.00</i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	
COOLING COIL SELECTION																					
Total Capacity	3.4	2.4	97	78.4	65.8	74.9		56.0	54.5	61.1											
Sens Cap.	MBh	MBh	cfm	°F	°F	gr/lb		°F	°F	gr/lb											
Main Clg	0.3																				
Aux Clg	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											
<i>Total</i>	<i>0.3</i>	<i>3.4</i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	
AREAS																					
Gross Total																					
Glass ft ²																					
(%)																					
Floor	192																				
Part	1,152																				
Int Door	0																				
ExFlr	0																				
Roof	0																				
Wall	0																				
Ext Door	0																				
HEATING COIL SELECTION																					
Capacity	MBh	MBh	cfm	°F	°F	gr/lb															
Coil Airflow																					
Ent																					
Lvg																					
Main Htg	-1.0			29	70.0	100.0															
Aux Htg	0.0			0	0.0	0.0															
Preheat	0.0			0	0	0.0															
Humidif	0.0			22	2.6	3.4															
Opt Vent	0.0			0	0.0	0.0															
<i>Total</i>	<i>-1.0</i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	<i></i>	

Room Checksums

By ACADEMIC

318 corridor

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	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	SADB											
	Btu/h	Btu/h	Btu/h	(%)		Btu/h	(%)		Btu/h	Btu/h	(%)	Ra Plenum											
Skylite Solar	0	0	0	0		0	0		Skylite Solar	0	0	54.5											
Skylite Cond	0	0	0	0		0	0		Skylite Cond	0	0	75.3											
Roof Cond	0	0	0	0		0	0		Roof Cond	0	0	75.3											
Glass Solar	0	0	0	0		0	0		Glass Solar	0	0	77.8											
Glass/Door Cond	0	0	0	0		0	0		Glass/Door Cond	0	0	0.0											
Wall Cond	0	0	0	0		0	0		Wall Cond	0	0	0.0											
Partition/Door	-174		-174	-5		-174	-8		Partition/Door	-4,592		-4,592	168.10										
Floor	0		0	0		0	0		Floor	0		0	0.0										
Adjacent Floor	0	0	0	0		0	0		Adjacent Floor	0		0	0.0										
Infiltration	0		0	0		0	0		Infiltration	0		0	0.0										
<i>Sub Total ==></i>	<i>-174</i>	<i>0</i>	<i>-174</i>	<i>-5</i>		<i>-174</i>	<i>-8</i>		<i>Sub Total ==></i>	<i>-4,592</i>		<i>-4,592</i>	<i>168.10</i>										
Internal Loads									Internal Loads														
Lights	598	149	747	20		598	26		Lights	0		0	0.00										
People	689	0	689	19		383	16		People	0		0	0.00										
Misc	1,495	0	1,495	40		1,495	64		Misc	0		0	0.00										
<i>Sub Total ==></i>	<i>2,782</i>	<i>149</i>	<i>2,932</i>	<i>79</i>		<i>2,476</i>	<i>107</i>		<i>Sub Total ==></i>	<i>0</i>		<i>0</i>	<i>0.00</i>										
Ceiling Load	22	-22	0	0		22	1		Ceiling Load	0		0	0.00										
Ventilation Load	0	0	942	26		0	0		Ventilation Load	0		0	0.00										
Adj Air Trans Heat	0		0	0		0	0		Adj Air Trans Heat	0		0	0.00										
Dehumid. Ov Sizing			0	0					Ov/Undr Sizing	2,555		2,555	-93.53										
Ov/Undr Sizing	0		0	0		0	0		Exhaust Heat	0		0	0.00										
Exhaust Heat			-6	-6					OA Preheat Diff.	-695		25.44											
Sup. Fan Heat			0	0					RA Preheat Diff.	0		0.00											
Ret. Fan Heat	0	0	0	0					Additional Reheat	0		0.00											
Duct Heat Pkup	0	0	0	0					System Plenum Heat	0		0.00											
Underflr Sup Ht Pkup			0	0					Underflr Sup Ht Pkup	0		0.00											
Supply Air Leakage	0	0	0	0					Supply Air Leakage	0		0.00											
<i>Grand Total ==></i>	<i>2,630</i>	<i>121</i>	<i>3,693</i>	<i>100.00</i>		<i>2,324</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-2,037</i>		<i>-2,732</i>	<i>100.00</i>										

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	ft ²	cfm	°F	°F							
Main Clg	0.3	3.7	2.7	102	77.8	65.4	74.2	54.5	53.5	59.6	Floor	219	Main Htg	-2.6	61	100.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	1,200	Aux Htg	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	-0.7	17	54.5	
<i>Total</i>	<i>0.3</i>	<i>3.7</i>									ExFlr	0	Reheat	-0.5	30	70.0	
											Roof	0	Humidif	0.0	21	2.7	
											Wall	0	Opt Vent	0.0	0	0.0	
											Ext Door	0	<i>Total</i>	-3.3			

Room Checksums

By ACADEMIC

319 1 projection room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES					
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating									
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	56.1	100.0							
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total	Space Sensible	Percent Of Total	Space Peak Space Sens	Tot Sens	Coil Peak Btu/h	Percent Of Total (%)												
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	Btu/h	(%)												
Skylite Solar		0	0	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	0	0.00	Skylite Cond	0	0	0.00								
Roof Cond		0	0	0	0	0	0	0	0	0	0.00	Roof Cond	0	0	0.00								
Glass Solar		0	0	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	0	0.00	Glass/Door Cond	0	0	0.00								
Wall Cond		0	0	0	0	0	0	0	0	0	0.00	Wall Cond	0	0	0.00								
Partition/Door	-87			-87	-3	-87	-5	-2,296		-2,296	293.17	Partition/Door	-2,296										
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	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>	<i>-87</i>	<i>0</i>	<i>-87</i>	<i>-3</i>		<i>-87</i>	<i>-5</i>	<i>-2,296</i>		<i>-2,296</i>	<i>293.17</i>	<i>Sub Total ==></i>	<i>-2,296</i>	<i>-2,296</i>	<i>293.17</i>								
Internal Loads												Internal Loads											
Lights	415	104	519	19		415	25	Lights	0	0	0.00												
People	478	0	478	18		266	16	People	0	0	0.00												
Misc	1,038	0	1,038	38		1,038	63	Misc	0	0	0.00												
<i>Sub Total ==></i>	<i>1,931</i>	<i>104</i>	<i>2,035</i>	<i>75</i>		<i>1,718</i>	<i>104</i>	<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>												
Ceiling Load	14	-14	0	0		14	1	Ceiling Load	0	0	0.00												
Ventilation Load	0	0	775	29		0	0	Ventilation Load	0	0	0.00												
Adj Air Trans Heat	0		0	0		0	0	Adj Air Trans Heat	0	0	0.00												
Dehumid. Ov Sizing			0	0				Ov/Undr Sizing	1,513	1,513	-193.17												
Ov/Undr Sizing	0		0	0		0	0	Exhaust Heat	0	0	0.00												
Exhaust Heat		-4	-4	0				OA Preheat Diff.	0	0	0.00												
Sup. Fan Heat			0	0				RA Preheat Diff.	0	0	0.00												
Ret. Fan Heat	0	0	0	0				Additional Reheat	0	0	0.00												
Duct Heat Pkup	0	0	0	0				System Plenum Heat	0	0	0.00												
Underflr Sup Ht Pkup			0	0				Underflr Sup Ht Pkup	0	0	0.00												
Supply Air Leakage	0	0	0	0				Supply Air Leakage	0	0	0.00												
<i>Grand Total ==></i>	<i>1,858</i>	<i>85</i>	<i>2,718</i>	<i>100.00</i>		<i>1,645</i>	<i>100.00</i>	<i>Grand Total ==></i>	<i>-783</i>	<i>-783</i>	<i>100.00</i>												

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	0.2	2.7	2.0	78	78.0	65.6	74.8	56.1	54.3	60.0		Main Htg	-0.8	23	70.0	100.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	0.0	0	0.0	0.0	
<i>Total</i>	<i>0.2</i>	<i>2.7</i>										Humidif	0.0	17	2.6	2.7	
												Opt Vent	0.0	0	0.0	0.0	
												<i>Total</i>	<i>-0.8</i>				

Room Checksums

By ACADEMIC

319 theater

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	MBh	cfm	°F	°F						
Main Clg	11.3	135.8	101.0	4,307	77.3	64.9	72.2	56.2	54.5	60.9			Main Htg	-25.3	1,292	70.0	87.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0			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			Preheat	0.0	0	0.0	0.0
Total	11.3	135.8											Humidif	0.0	702	2.6	2.7
													Opt Vent	0.0	0	0.0	0.0
													Total	-25.3			

Room Checksums

By ACADEMIC

320 2 AV room

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Cooling		Heating						
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17				SADB	56.0	100.0				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total (%)	Space Sensible	Percent Of Total (%)	Space Peak Space Sens	Peak Tot Sens	Coil Peak Btu/h	Percent Of Total (%)					Ra Plenum	75.8	70.0		
		Btu/h	Btu/h	Btu/h	(%)	Btu/h	(%)	Btu/h	Btu/h	Btu/h	(%)					Return	75.8	70.0		
Skylite Solar		0	0	0	0	0	0	0	0	0	0.00					Ret/OA	78.4	70.0		
Skylite Cond		0	0	0	0	0	0	0	0	0	0.00					Fn MtrTD	0.0	0.0		
Roof Cond		0	0	0	0	0	0	0	0	0	0.00					Fn BldTd	0.0	0.0		
Glass Solar		0	0	0	0	0	0	0	0	0	0.00					Fn Frict	0.0	0.0		
Glass/Door Cond		0	0	0	0	0	0	0	0	0	0.00									
Wall Cond		0	0	0	0	0	0	0	0	0	0.00									
Partition/Door	-87			-87	-5	-87	-8													
Floor	0			0	0	0	0													
Adjacent Floor	0	0		0	0	0	0													
Infiltration	0			0	0	0	0													
<i>Sub Total ==></i>	<i>-87</i>	<i>0</i>	<i>-87</i>	<i>-5</i>		<i>-87</i>	<i>-8</i>													
Internal Loads																AIRFLOWS				
Lights	279	70	348	19		279	26	Lights	0	0	0.00					Cooling				
People	321	0	321	18		178	16	People	0	0	0.00					Terminal				
Misc	696	0	696	39		696	64	Misc	0	0	0.00					Main Fan				
<i>Sub Total ==></i>	<i>1,296</i>	<i>70</i>	<i>1,365</i>	<i>76</i>		<i>1,153</i>	<i>106</i>	<i>Sub Total ==></i>	<i>0</i>	<i>0</i>	<i>0.00</i>					Sec Fan	0	0		
Ceiling Load								Ceiling Load	0	0	0.00					Norm Vent	9	0		
Ventilation Load	0	0	520	29		0	0	Ventilation Load	0	0	0.00					AHU Vent	9	0		
Adj Air Trans Heat	0			0	0			Adj Air Trans Heat	0	0	0.00					Infil	0	0		
Dehumid. Ov Sizing				0	0			Ov/Undr Sizing	1,778	1,778	-343.34					MinStop/Rh	15	15		
Ov/Undr Sizing	0			0	0			Exhaust Heat	0	0	0.00					Return	52	15		
Exhaust Heat				-8	-8	0		OA Preheat Diff.	0	0	0.00					Exhaust	9	0		
Sup. Fan Heat				0	0	0		RA Preheat Diff.	0	0	0.00					Rm Exh	0	0		
Ret. Fan Heat	0	0	0	0	0			Additional Reheat	0	0	0.00					Auxiliary	0	0		
Duct Heat Pkup	0	0	0	0	0			System Plenum Heat	0	0	0.00					Leakage Dwn	0	0		
Underflr Sup Ht Pkup				0	0	0		Underflr Sup Ht Pkup	0	0	0.00					Leakage Ups	0	0		
Supply Air Leakage	0	0	0	0	0			Supply Air Leakage	0	0	0.00									
Grand Total ==>	1,234	37	1,790	100.00		1,091	100.00	Grand Total ==>	-518	-518	100.00					ENGINEERING CKS				

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION								
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F					
Main Clg	0.2	1.8	1.3	52	78.4	65.8	74.9	56.0	54.5	61.1		Floor	102			Main Htg	-0.5	15	70.0	100.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	600		Part				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			Int Door	0			Preheat	0.0	0	0.0	0.0
Total	0.2	1.8										ExFlr	0			Humidif	0.0	11	2.6	3.4
												Roof	0	0	0	Opt Vent	0.0	0	0.0	0.0
												Wall	0	0	0	Total	-0.5			
												Ext Door	0	0	0					

Room Checksums

By ACADEMIC

320 3 judgement simulator

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 14		OADB: 91				Mo/Hr: Heating Design		OADB: 17				Cooling	Heating	
Envelope Loads	Space Sens. + Lat.	Plenum Sens. + Lat	Net Total Btu/h	Percent Of Total (%)		Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)		Envelope Loads	Space Sensible Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)				
Skylite Solar	0	0	0	0		0	0		Skylite Solar	0	0	0.00	Skylite Cond	0	0	0.00	SADB	54.5	85.0	
Skylite Cond	0	0	0	0		0	0		Skylite Cond	0	0	0.00	Roof Cond	0	0	0.00	Ra Plenum	75.3	70.0	
Roof Cond	0	0	0	0		0	0		Roof Cond	0	0	0.00	Glass Solar	0	0	0.00	Return	75.3	70.0	
Glass Solar	0	0	0	0		0	0		Glass Solar	0	0	0.00	Glass/Door Cond	0	0	0.00	Ret/OA	77.1	70.0	
Glass/Door Cond	0	0	0	0		0	0		Glass/Door Cond	0	0	0.00	Wall Cond	0	0	0.00	Fn MtrTD	0.0	0.0	
Wall Cond	0	0	0	0		0	0		Wall Cond	0	0	0.00	Partition/Door	-4,968	-4,968	40.07	Fn BldTD	0.0	0.0	
Partition/Door	-189		-189	-1		-189	-1		Partition/Door	-4,968	-4,968	40.07	Floor	0	0	0.00	Fn Frict	0.0	0.0	
Floor	0		0	0		0	0		Floor	0	0	0.00	Adjacent Floor	0	0	0.00				
Adjacent Floor	0	0	0	0		0	0		Adjacent Floor	0	0	0.00	Infiltration	0	0	0.00				
Infiltration	0		0	0		0	0		Infiltration	0	0	0.00	Sub Total ==>	-4,968	-4,968	40.07				
Sub Total ==>	-189	0	-189	-1		-189	-1		Sub Total ==>	-4,968	-4,968	40.07								
Internal Loads																				
Lights	1,174	294	1,468	5		1,174	6		Lights	0	0	0.00	People	0	0	0.00	Diffuser	827	496	
People	5,811	0	5,811	21		3,228	17		People	0	0	0.00	Misc	0	0	0.00	Terminal	827	496	
Misc	14,676	0	14,676	54		14,676	78		Misc	0	0	0.00	Sec Fan	0	0	0.00	Main Fan	827	248	
Sub Total ==>	21,661	294	21,954	80		19,078	101		Sub Total ==>	0	0	0.00	Nom Vent	98	0	0.00	AHU Vent	98	0	
Ceiling Load	44	-44	0	0		44	0		Ceiling Load	0	0	0.00	Infil	0	0	0.00	MinStop/Rh	248	248	
Ventilation Load	0	0	5,554	20		0	0		Ventilation Load	0	0	0.00	Return	827	248	0.00	Exhaust	98	0	
Adj Air Trans Heat	0		0	0		0	0		Adj Air Trans Heat	0	0	0.00	Rm Exh	0	0	0.00	Auxiliary	0	0	
Dehumid. Ov Sizing			0	0		0	0		Ov/Undr Sizing	-3,331	-3,331	26.87	Leakage Dwn	0	0	0.00	Leakage Ups	0	0	
Ov/Undr Sizing	0		0	0		0	0		Exhaust Heat	0	0	0.00								
Exhaust Heat		-35	-35	0					OA Preheat Diff.	-4,098	-4,098	33.06								
Sup. Fan Heat			0	0					RA Preheat Diff.	0	0	0.00								
Ret. Fan Heat	0	0	0	0					Additional Reheat	0	0	0.00								
Duct Heat Pkup	0	0	0	0					System Plenum Heat	0	0	0.00								
Underflr Sup Ht Pkup			0	0					Underflr Sup Ht Pkup	0	0	0.00								
Supply Air Leakage	0	0	0	0					Supply Air Leakage	0	0	0.00								
Grand Total ==>	21,516	215	27,284	100.00		18,933	100.00		Grand Total ==>	-8,299	-12,397	100.00								

COOLING COIL SELECTION						AREAS						HEATING COIL SELECTION					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb	Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F		
Main Clg	2.3	27.3	20.8	827	77.1	64.7	71.7	54.5	53.8	60.7		Main Htg	-12.6	496	62.2	85.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0		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		Preheat	-4.1	98	17.0	54.5	
Total	2.3	27.3							Int Door	0	0		Reheat	-4.3	248	54.5	70.0
									ExFlr	0	0		Humidif	0.0	123	2.6	2.7
									Roof	0	0		Opt Vent	0.0	0	0.0	0.0
									Wall	0	0		Total	-16.7			
									Ext Door	0	0						

Room Checksums

By ACADEMIC

320 exhibit hall east

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES			
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 11				Mo/Hr: Heating Design				Cooling	Heating		
Outside Air:	OADB/WB/HR:	91 / 77 / 121		OADB:	85		OADB:	17		SADB	54.5	85.0			
Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Btu/h	Percent Of Total (%)		Space Sensible	Btu/h	Percent Of Total (%)		Space Peak Space Sens	Tot Sens Btu/h	Percent Of Total (%)	
Envelope Loads								Envelope Loads							
Skylite Solar	0	0	0	0	0	0.0		Skylite Solar	0	0	0	0.00			
Skylite Cond	0	0	0	0	0	0.0		Skylite Cond	0	0	0	0.00			
Roof Cond	0	0	0	0	0	0.0		Roof Cond	0	0	0	0.00			
Glass Solar	0	0	0	0	0	0.0		Glass Solar	0	0	0	0.00			
Glass/Door Cond	0	0	0	0	0	0.0		Glass/Door Cond	0	0	0	0.00			
Wall Cond	0	0	0	0	0	0.0		Wall Cond	0	0	0	0.00			
Partition/Door	-1,771			-1,771		-1		Partition/Door			-46,611	-46,611	45.09		
Floor	0			0	0	0.0		Floor			0	0	0.00		
Adjacent Floor	0	0	0	0	0	0.0		Adjacent Floor			0	0	0.00		
Infiltration	0			0	0	0.0		Infiltration			0	0	0.00		
Sub Total ==>	-1,771	0	-1,771		-1			Sub Total ==>			-46,611	-46,611	45.09		
Internal Loads								Internal Loads							
Lights	8,328	2,082	10,410		4			Lights	0	0	0	0.00			
People	99,000	0	99,000		34			People	0	0	0	0.00			
Misc	104,097	0	104,097		35			Misc	0	0	0	0.00			
Sub Total ==>	211,424	2,082	213,506		73			Sub Total ==>	0	0	0	0.00			
Ceiling Load	311	-311	0	0	0	0.0		Ceiling Load	0	0	0	0.00			
Ventilation Load	0	0	83,003		28			Ventilation Load	0	0	0	0.00			
Adj Air Trans Heat	0		0	0	0	0.0		Adj Air Trans Heat	0	0	0	0.00			
Dehumid. Ov Sizing			0	0	0	0.0		Ov/Undr Sizing			-26,135	-26,135	25.28		
Ov/Undr Sizing	0		0	0	0	0.0		Exhaust Heat			0	0.00			
Exhaust Heat		-526	-526		0	0.0		OA Preheat Diff.			-30,623	-30,623	29.62		
Sup. Fan Heat			0	0	0	0.0		RA Preheat Diff.			0	0.00			
Ret. Fan Heat	0	0	0	0	0	0.0		Additional Reheat			0	0.00			
Duct Heat Pkup	0		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	0.0		Supply Air Leakage			0	0.00			
Grand Total ==>	209,964	1,246	294,213		100.00			Grand Total ==>			-72,746	-103,369	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	MBh	cfm	°F	%						
Main Clg	24.5	294.2	192.6	7,251	78.4	66.1	76.4	54.5	52.8	56.7			Main Htg	-110.4	4,351	62.2	85.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0			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			Preheat	-30.6	733	17.0	54.0
Total	24.5	294.2											Reheat	-37.7	2,175	54.5	70.0
													Humidif	-0.1	1,833	2.6	2.0
													Opt Vent	0.0	0	0.0	0.0
													Total	-141.1			

Room Checksums

By ACADEMIC

320 exhibit hall west

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES				
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 11		Mo/Hr: Heating Design		Cooling		Heating						
Envelope Loads	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	SADB	50.4	85.0				
Skylite Solar	0	0	0	0	0	0	0	0	0.00	Ra Plenum	75.5	70.0				
Skylite Cond	0	0	0	0	0	0	0	0	0.00	Return	75.5	70.0				
Roof Cond	0	0	0	0	0	0	0	0	0.00	Ret/OA	79.1	70.0				
Glass Solar	0	0	0	0	0	0	0	0	0.00	Fn MtrTD	0.0	0.0				
Glass/Door Cond	0	0	0	0	0	0	0	0	0.00	Fn BldTD	0.0	0.0				
Wall Cond	0	0	0	0	0	0	0	0	0.00	Fn Frict	0.0	0.0				
Partition/Door	-698		-698	0	-698	0				AIRFLOWS						
Floor	0		0	0	0	0				Cooling						
Adjacent Floor	0	0	0	0	0	0				Diffuser	6,092	3,655 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>				
Infiltration	0		0	0	0	0				Terminal	6,092	3,655 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>				
Sub Total ==>	-698	0	-698	0	-698	0				Main Fan	6,092	1,828 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>				
Internal Loads				Internal Loads				Sub Total ==>								
Lights	8,328	2,082	10,410	4	8,328	5	Lights	0	0	0.00	Sec Fan	0	1,828			
People	99,000	0	99,000	34	55,000	33	People	0	0	0.00 <th>Nom Vent</th> <td>733</td> <td>0<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th></td>	Nom Vent	733	0 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>			
Misc	104,097	0	104,097	35	104,097	62	Misc	0	0	0.00 <th>AHU Vent</th> <td>733</td> <td>0<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th></td>	AHU Vent	733	0 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>			
Sub Total ==>	211,424	2,082	213,506	72	167,424	100	Sub Total ==>	0	0	0.00 <th>Infil</th> <td>0</td> <td>0</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Infil	0	0			
Ceiling Load	488	-488	0	0	488	0	Ceiling Load	0	0	0.00 <th>MinStop/Rh</th> <td>1,828</td> <td>1,828</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	MinStop/Rh	1,828	1,828			
Ventilation Load	0	0	82,986	28	0	0	Ventilation Load	0	0	0.00 <th>Return</th> <td>6,092</td> <td>1,828</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Return	6,092	1,828			
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0	Exhaust	733	0 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>			
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	-42,748	-42,748	48.36	Rm Exh	0	0			
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	0	0	0.00 <th>Auxiliary</th> <td>0</td> <td>0</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Auxiliary	0	0			
Exhaust Heat		-826	-826	0			OA Preheat Diff.	-27,279	-27,279	30.86 <th>Leakage Dwn</th> <td>0</td> <td>0</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Leakage Dwn	0	0			
Sup. Fan Heat			0	0			RA Preheat Diff.	0	0	0.00 <th>Leakage Ups</th> <td>0</td> <td>0</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Leakage Ups	0	0			
Ret. Fan Heat	0	0	0	0			Additional Reheat	0	0	0.00 <th data-cs="3" data-kind="parent">ENGINEERING CKS</th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	ENGINEERING CKS					
Duct Heat Pkup	0	0	0	0			System Plenum Heat	0	0	0.00 <th data-cs="3" data-kind="parent">Cooling</th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Cooling					
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0	0.00 <th>% OA</th> <td>24.1</td> <td>0.0<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th></td>	% OA	24.1	0.0 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>			
Supply Air Leakage	0	0	0	0			Supply Air Leakage	0	0	0.00 <th>cfm/ft²</th> <td>2.00</td> <td>0.60<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th></td>	cfm/ft ²	2.00	0.60 <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>			
Grand Total ==>	211,215	768	294,969	100.00			Grand Total ==>	-61,117	-88,396	100.00 <th>cfm/ton</th> <td>247.83</td> <td></td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	cfm/ton	247.83				
											ft ³ /ton	124.08				
											Btu/hr-ft ²	96.71	-42.11			
											No. People	220				

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	ft ²	(%)	MBh	cfm	°F	°F					
Main Clg	24.6	295.0	193.3	6,092	79.1	66.7	78.5	50.4	50.3	54.2				Main Htg	-101.1	3,655	60.2	85.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0				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				Preheat	-27.3	733	17.0	50.4
<i>Total</i>	24.6	295.0												Reheat	-40.0	1,828	50.4	70.0
														Humidif	-0.1	1,833	2.6	2.6
														Opt Vent	0.0	0	0.0	0.0
														<i>Total</i>	-128.4			

Room Checksums

By ACADEMIC

400 PEPCO substation

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:	Mo/Hr: 7 / 14			Mo/Hr: 7 / 15				Mo/Hr: Heating Design	Cooling			Heating		
Outside Air:	OADB/WB/HR: 91 / 77 / 121			OADB: 91				OADB: 17	SADB	50.0		100.0		
Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)						
Envelope Loads						Envelope Loads								
Skylite Solar	0	0	0	0	0	Skylite Solar	0	0						
Skylite Cond	0	0	0	0	0	Skylite Cond	0	0						
Roof Cond	0	0	0	0	0	Roof Cond	0	0						
Glass Solar	0	0	0	0	0	Glass Solar	0	0						
Glass/Door Cond	0	0	0	0	0	Glass/Door Cond	0	0						
Wall Cond	0	0	0	0	0	Wall Cond	0	0						
Partition/Door	-786		-786	-8	-786	Partition/Door	-20,680	-20,680	1,850.97					
Floor	0		0	0	0	Floor	0	0	0					
Adjacent Floor	0	0	0	0	0	Adjacent Floor	0	0	0					
Infiltration	0		0	0	0	Infiltration	0	0	0					
Sub Total ==>	-786	0	-786	-8	-786	Sub Total ==>	-20,680	-20,680	1,850.97					
Internal Loads						Internal Loads								
Lights	3,167	792	3,959	38	3,167	Lights	0	0	0					
People	0	0	0	0	0	People	0	0	0					
Misc	0	0	0	0	0	Misc	0	0	0					
Sub Total ==>	3,167	792	3,959	38	3,167	Sub Total ==>	0	0	0					
Ceiling Load	716	-716	0	0	716	Ceiling Load	0	0	0					
Ventilation Load	0	0	7,245	70	0	Ventilation Load	0	0	0					
Adj Air Trans Heat	0		0	0	0	Adj Air Trans Heat	0	0	0					
Dehumid. Ov Sizing			0	0		Ov/Undr Sizing	19,563	19,563	1,750.97					
Ov/Undr Sizing	0		0	0	0	Exhaust Heat	0	0	0					
Exhaust Heat		0	0	0		OA Preheat Diff.	0	0	0					
Sup. Fan Heat			0	0		RA Preheat Diff.	0	0	0					
Ret. Fan Heat	0		0	0		Additional Reheat	0	0	0					
Duct Heat Pkup	0		0	0		System Plenum Heat	0	0	0					
Underflr Sup Ht Pkup			0	0		Underflr Sup Ht Pkup	0	0	0					
Supply Air Leakage	0		0	0		Supply Air Leakage	0	0	0					
Grand Total ==>	3,098	76	10,419	100.00	3,098	Grand Total ==>	-1,117	-1,117	100.00					

Room Checksums

By ACADEMIC

402 low volt switchgear room

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES									
Peaked at Time:			Mo/Hr: 7 / 14							Mo/Hr: 7 / 15			Mo/Hr: Heating Design							Cooling			Heating			SADB			Ra Plenum										
Outside Air:			OADB/WB/HR: 91 / 77 / 121							OADB: 91			OADB: 17							Cooling			Heating			SADB			Ra Plenum										
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent (%)				Space Sensible	Btu/h	Percent Of Total (%)				Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent (%)																			
Envelope Loads										Envelope Loads																													
Skylite Solar	0	0			0	0				Skylite Solar	0	0																											
Skylite Cond	0	0			0	0				Skylite Cond	0	0																											
Roof Cond	0	0			0	0				Roof Cond	0	0																											
Glass Solar	0	0			0	0				Glass Solar	0	0																											
Glass/Door Cond	0	0			0	0				Glass/Door Cond	0	0																											
Wall Cond	0	0			0	0				Wall Cond	0	0																											
Partition/Door	-81				-81	-2				Partition/Door	-2,143																												
Floor	0				0	0				Floor	0																												
Adjacent Floor	0	0			0	0				Adjacent Floor	0																												
Infiltration	0				0	0				Infiltration	0																												
<i>Sub Total ==></i>	<i>-81</i>	<i>0</i>			<i>-81</i>	<i>-2</i>				<i>Sub Total ==></i>	<i>-2,143</i>																												
Internal Loads										Internal Loads																													
Lights	1,256	314			1,570	39				Lights	0																												
People	0	0			0	0				People	0																												
Misc	0	0			0	0				Misc	0																												
<i>Sub Total ==></i>	<i>1,256</i>	<i>314</i>			<i>1,570</i>	<i>39</i>				<i>Sub Total ==></i>	<i>1,256</i>	<i>86</i>																											
Ceiling Load	284	-284			0	0				Ceiling Load	0																												
Ventilation Load	0	0			2,535	63				Ventilation Load	0																												
Adj Air Trans Heat	0				0	0				Adj Air Trans Heat	0																												
Dehumid. Ov Sizing					0	0				Ov/Undr Sizing																													
Ov/Undr Sizing	0				0	0				Exhaust Heat	0																												
Exhaust Heat					0	0				OA Preheat Diff.	0																												
Sup. Fan Heat					0	0				RA Preheat Diff.	0																												
Ret. Fan Heat	0	0			0	0				Additional Reheat	0																												
Duct Heat Pkup	0	0			0	0				System Plenum Heat	0																												
Underflr Sup Ht Pkup					0	0				Underflr Sup Ht Pkup	0																												
Supply Air Leakage	0	0			0	0				Supply Air Leakage	0																												
<i>Grand Total ==></i>	<i>1,459</i>	<i>30</i>			<i>4,024</i>	<i>100.00</i>				<i>Grand Total ==></i>	<i>1,459</i>	<i>100.00</i>																											
COOLING COIL SELECTION										AREAS										HEATING COIL SELECTION										ENGINNEERING CKS									
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR/gr/lb	Leave DB/°F	WB/°F	HR/gr/lb		Gross Total		Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F																						
Main Clg	0.3	4.0	2.3	65	86.1	73.2	102.5		Floor	460				Main Htg	-0.7	20	70.0	100.0																					
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0		Part	560				Aux Htg	0.0	0	0.0	0.0																					
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0		Int Door	0				Preheat	0.0	0	0.0	0.0																					
<i>Total</i>	<i>0.3</i>	<i>4.0</i>							ExFlr	0				<i>Humidif</i>	<i>0.0</i>	<i>55</i>	<i>2.6</i>	<i>2.6</i>																					
									Roof	0				<i>Opt Vent</i>	<i>0.0</i>	<i>0</i>	<i>0.0</i>	<i>0.0</i>																					
									Wall	0				<i>Total</i>	<i>-0.7</i>																								

Room Checksums

By ACADEMIC

404 building management controls

COOLING COIL PEAK				CLG SPACE PEAK				HEATING COIL PEAK				TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14		Mo/Hr: 7 / 15				Mo/Hr: Heating Design				Cooling	Heating	
Envelope Loads	Space Sens. + Lat.	Plenum Sens. + Lat.	Net Total Btu/h	Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)	SADB	50.1	100.0	
	Btu/h	Btu/h									Ra Plenum	77.0	70.0	
Skylite Solar	0	0	0	0	0	0					Return	77.0	70.0	
Skylite Cond	0	0	0	0	0	0					Ret/OA	90.5	70.0	
Roof Cond	0	0	0	0	0	0					Fn MtrTD	0.0	0.0	
Glass Solar	0	0	0	0	0	0					Fn BldTD	0.0	0.0	
Glass/Door Cond	0	0	0	0	0	0					Fn Frict	0.0	0.0	
Wall Cond	0	0	0	0	0	0								
Partition/Door	-285		-285	-8	-285	-26								
Floor	0		0	0	0	0								
Adjacent Floor	0	0	0	0	0	0								
Infiltration	0		0	0	0	0								
<i>Sub Total ==></i>	-285	0	-285	-8	-285	-26								
Internal Loads							Internal Loads							
Lights	1,128	282	1,410	38	1,128	102	Lights	0	0	0				
People	0	0	0	0	0	0	People	0	0	0				
Misc	0	0	0	0	0	0	Misc	0	0	0				
<i>Sub Total ==></i>	1,128	282	1,410	38	1,128	102	<i>Sub Total ==></i>	0	0	0				
Ceiling Load	260	-260	0	0	260	24	Ceiling Load	0	0	0				
Ventilation Load	0	0	2,579	70	0	0	Ventilation Load	0	0	0				
Adj Air Trans Heat	0		0	0	0	0	Adj Air Trans Heat	0	0	0				
Dehumid. Ov Sizing			0	0			Ov/Undr Sizing	7,103	7,103	1,785.53				
Ov/Undr Sizing	0		0	0	0	0	Exhaust Heat	0	0	0				
Exhaust Heat			0	0			OA Preheat Diff.	0	0	0				
Sup. Fan Heat			0	0			RA Preheat Diff.	0	0	0				
Ret. Fan Heat	0		0	0			Additional Reheat	0	0	0				
Duct Heat Pkup	0		0	0			System Plenum Heat	0	0	0				
Underflr Sup Ht Pkup			0	0			Underflr Sup Ht Pkup	0	0	0				
Supply Air Leakage	0		0	0			Supply Air Leakage	0	0	0				
<i>Grand Total ==></i>	1,103	22	3,704	100.00	1,103	100.00	<i>Grand Total ==></i>	-398	-398	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	MBh	cfm	°F	°F						
Main Clg	0.3	3.7	1.8	40	90.5	77.4	121.1	50.1	50.0	53.5			Main Htg	-0.4	12	70.0	100.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0			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			Preheat	0.0	0	0.0	0.0
<i>Total</i>	0.3	3.7											Humidif	0.0	40	2.6	3.6
													Opt Vent	0.0	0	0.0	0.0
													<i>Total</i>	-0.4			

Room Checksums

By ACADEMIC

406 elevator #3 control

COOLING COIL PEAK						CLG SPACE PEAK						HEATING COIL PEAK						TEMPERATURES		
Peaked at Time:		Mo/Hr: 7 / 14				Mo/Hr: 7 / 15		Mo/Hr: Heating Design				Space Peak	Space Sens	Coil Peak	Tot Sens	Percent	Cooling	Heating		
Envelope Loads	Outside Air:	OADB/WB/HR: 91 / 77 / 121				OADB: 91				OADB: 17	Space Sens	Tot Sens	Btu/h	Btu/h	(%)	(%)				
		Space Sens. + Lat.	Plenum Sens. + Lat	Net Total	Percent Of Total			Space Sensible	Percent Of Total											
		Btu/h	Btu/h	Btu/h	(%)			Btu/h	(%)											
Skylite Solar	0	0	0	0	0			0	0		Envelope Loads	Skylite Solar	0	0	0.00					
Skylite Cond	0	0	0	0	0			0	0		Skylite Cond	0	0	0.00						
Roof Cond	0	0	0	0	0			0	0		Roof Cond	0	0	0.00						
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	-81			-81	-8			-81	-23		Partition/Door	-2,143		-2,143	1,367.60					
Floor	0			0	0			0	0		Floor	0		0	0.00					
Adjacent Floor	0	0	0	0	0			0	0		Adjacent Floor	0		0	0.00					
Infiltration	0			0	0			0	0		Infiltration	0		0	0.00					
<i>Sub Total ==></i>	<i>-81</i>	<i>0</i>	<i>-81</i>	<i>-8</i>	<i>-23</i>			<i>-81</i>	<i>-23</i>		<i>Sub Total ==></i>	<i>-2,143</i>		<i>-2,143</i>	<i>1,367.60</i>					
Internal Loads								Internal Loads												
Lights	349	87	437	41				349	100		Lights	0		0	0.00					
People	0	0	0	0				0	0		People	0		0	0.00					
Misc	0	0	0	0				0	0		Misc	0		0	0.00					
<i>Sub Total ==></i>	<i>349</i>	<i>87</i>	<i>437</i>	<i>41</i>				<i>349</i>	<i>100</i>		<i>Sub Total ==></i>	<i>0</i>		<i>0</i>	<i>0.00</i>					
Ceiling Load	80	-80	0	0				80	23		Ceiling Load	0		0	0.00					
Ventilation Load	0	0	705	66				0	0		Ventilation Load	0		0	0.00					
Adj Air Trans Heat	0			0	0			0	0		Adj Air Trans Heat	0		0	0.00					
Dehumid. Ov Sizing				0	0						Ov/Undr Sizing	1,986		1,986	1,267.60					
Ov/Undr Sizing	0			0	0			0	0		Exhaust Heat	0		0	0.00					
Exhaust Heat				0	0						OA Preheat Diff.	0		0	0.00					
Sup. Fan Heat				0	0						RA Preheat Diff.	0		0	0.00					
Ret. Fan Heat	0			0	0						Additional Reheat	0		0	0.00					
Duct Heat Pkup	0			0	0						System Plenum Heat	0		0	0.00					
Underflr Sup Ht Pkup				0	0						Underflr Sup Ht Pkup	0		0	0.00					
Supply Air Leakage	0			0	0						Supply Air Leakage	0		0	0.00					
<i>Grand Total ==></i>	<i>348</i>	<i>7</i>	<i>1,061</i>	<i>100.00</i>				<i>348</i>	<i>100.00</i>		<i>Grand Total ==></i>	<i>-157</i>		<i>-157</i>	<i>100.00</i>					

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	ft ²	cfm	°F	°F							
Main Clg	0.1	1.1	0.6	16	87.6	74.7	108.9	55.0	55.0	64.5	Floor	128		Main Htg	-0.2	5	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	560		Aux Htg	0.0	70.0	
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	
<i>Total</i>	<i>0.1</i>	<i>1.1</i>									ExFlr	0		Humidif	0.0	2.6	
											Roof	0	0	Opt Vent	0.0	3.4	
											Wall	0	0	<i>Total</i>	<i>-0.2</i>	<i>0.0</i>	
											Ext Door	0	0				

Room Checksums

By ACADEMIC

407 elevator #1 control

COOLING COIL PEAK										CLG SPACE PEAK										HEATING COIL PEAK										TEMPERATURES											
Peaked at Time:			Mo/Hr: 7 / 14							Mo/Hr: 7 / 15			Mo/Hr: Heating Design							Cooling			Heating			SADB			Ra Plenum												
Outside Air:			OADB/WB/HR: 91 / 77 / 121							OADB: 91			OADB: 17							SADB			Ra Plenum			Return			Ret/OA												
	Space Sens. + Lat.	Btu/h	Plenum Sens. + Lat	Btu/h	Net Total	Percent Of Total				Space Sensible	Btu/h	Percent Of Total				Space Peak Space Sens	Btu/h	Coil Peak Tot Sens	Btu/h	Percent Of Total (%)																					
Envelope Loads										Envelope Loads																															
Skylite Solar	0	0			0	0				Skylite Solar	0	0																													
Skylite Cond	0	0			0	0				Skylite Cond	0	0																													
Roof Cond	0	0			0	0				Roof Cond	0	0																													
Glass Solar	0	0			0	0				Glass Solar	0	0																													
Glass/Door Cond	0	0			0	0				Glass/Door Cond	0	0																													
Wall Cond	0	0			0	0				Wall Cond	0	0																													
Partition/Door	-61				-61	-12				Partition/Door	-1,607																														
Floor	0				0	0				Floor	0																														
Adjacent Floor	0	0			0	0				Adjacent Floor	0																														
Infiltration	0				0	0				Infiltration	0																														
<i>Sub Total ==></i>	<i>-61</i>	<i>0</i>			<i>-61</i>	<i>-12</i>				<i>Sub Total ==></i>	<i>-1,607</i>																														
Internal Loads										Internal Loads																															
Lights	167	42			208	41				Lights	0																														
People	0	0			0	0				People	0																														
Misc	0	0			0	0				Misc	0																														
<i>Sub Total ==></i>	<i>167</i>	<i>42</i>			<i>208</i>	<i>41</i>				<i>Sub Total ==></i>	<i>0</i>																														
Ceiling Load										Ceiling Load																															
Ventilation Load	42	-42			0	0				Ventilation Load	0																														
Adj Air Trans Heat	0		0		360	71				Adj Air Trans Heat	0																														
Dehumid. Ov Sizing										Ov/Undr Sizing																															
Ov/Undr Sizing	0									Exhaust Heat																															
Exhaust Heat										OA Preheat Diff.																															
Sup. Fan Heat										RA Preheat Diff.																															
Ret. Fan Heat										Additional Reheat																															
Duct Heat Pkup										System Plenum Heat																															
Underflr Sup Ht Pkup										Underflr Sup Ht Pkup																															
Supply Air Leakage										Supply Air Leakage																															
<i>Grand Total ==></i>	<i>147</i>	<i>0</i>			<i>507</i>	<i>100.00</i>				<i>Grand Total ==></i>	<i>147</i>	<i>100.00</i>										<i>-59</i>	<i>-59</i>	<i>100.00</i>																	
COOLING COIL SELECTION										AREAS										HEATING COIL SELECTION																					
Total Capacity ton	Sens Cap. MBh	Coil Airflow cfm	Enter DB/°F	WB/°F	HR gr/lb	Leave DB/°F	WB/°F	HR gr/lb		Gross Total	Glass ft²	(%)	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F																									
Main Clg	0.0	0.5	0.3	6	90.5	77.4	121.1		52.5	52.4	58.6		Main Htg	-0.1		2	70.0	100.0																							
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0		0.0	0.0	0.0		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		Preheat	0.0		0	0.0	0.0																							
<i>Total</i>	<i>0.0</i>	<i>0.5</i>								<i>Roof</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>Humidif</i>	<i>0.0</i>	<i>6</i>	<i>2.6</i>	<i>3.6</i>																							
										<i>Wall</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>Opt Vent</i>	<i>0.0</i>	<i>0</i>	<i>0.0</i>	<i>0.0</i>	<i>Total</i>	<i>-0.1</i>																					