RESIDENTIAL FAN COIL UNITS HVAC LOADS (CONT)

Zone Checksums
By WSP USA INC.

B702 unit K FCU bedroom 2

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 18; Outside Air: OADB/WB/HR: 87 / 65 / 76
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	745	0	745	11	745	13	Roof Cond	-904	-904	13.28
Glass Solar	2,734	0	2,734	40	2,734	46	Glass Solar	0	0	0.00
Glass/Door Cond	424	0	424	6	424	7	Glass/Door Cond	-2,610	-2,610	38.32
Wall Cond	669	0	669	10	669	11	Wall Cond	-830	-830	12.19
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	51		51	1	46	1	Infiltration	-281	-281	4.12
Sub Total ==>	4,622	0	4,622	68	4,617	78	*Sub Total ==>*	-4,625	-4,625	67.92
Internal Loads							**Internal Loads**			
Lights	501	125	626	9	501	8	Lights	0	0	0.00
People	900	0	900	13	500	8	People	0	0	0.00
Misc	313	0	313	5	313	5	Misc	0	0	0.00
Sub Total ==>	1,714	125	1,839	27	1,314	22	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	395	6	0	0	**Ventilation Load**	0	-426	6.25
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-10	-10	0			**OA Preheat Diff.**		-1,759	25.83
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,336	116	6,847	100.00	5,932	100.00	***Grand Total ==>***	-4,625	-6,810	100.00

TEMPERATURES	Cooling	Heating
SADB	59.7	81.2
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.1	69.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	437	437
Terminal	437	437
Main Fan	437	437
Sec Fan	0	0
Nom Vent	30	30
AHU Vent	30	30
Infil	4	4
MinStop/Rh	0	0
Return	440	440
Exhaust	34	34
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	6.9	6.9
cfm/ft²	1.19	1.19
cfm/ton	662.53	
ft²/ton	556.94	
Btu/hr·ft²	21.55	-26.30
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.7	7.9	6.4	437	75.1	61.4	74.0	59.7	55.0	68.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	30	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	7.9								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	367		
Part	0		
Int Door	1		
ExFlr	0		
Roof	367	0	0
Wall	249	80	32
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	437	65.9	81.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.8	30	-7.0	55.0
Total	-9.7			

Project Name:
Dataset Name: SOMMET220519.TRC
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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 3

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 15; OADB: 93
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	886	0	886	12	886	16	Roof Cond	-1,244	-1,244	13.36
Glass Solar	1,719	0	1,719	24	1,719	32	Glass Solar	0	0	0.00
Glass/Door Cond	796	0	796	11	796	15	Glass/Door Cond	-3,882	-3,882	41.69
Wall Cond	317	0	317	4	317	6	Wall Cond	-793	-793	8.52
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	159		159	2	96	2	Infiltration	-386	-386	4.15
Sub Total ==>	3,877	0	3,877	54	3,814	70	*Sub Total ==>*	-6,306	-6,306	67.72
Internal Loads							**Internal Loads**			
Lights	689	172	862	12	689	13	Lights	0	0	0.00
People	900	0	900	12	500	9	People	0	0	0.00
Misc	431	0	431	6	431	8	Misc	0	0	0.00
Sub Total ==>	2,020	172	2,193	30	1,620	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,192	16	0	0	**Ventilation Load**	0	-586	6.29
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-2,420	25.99
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,897	150	7,239	100.00	5,434	100.00	***Grand Total ==>***	-6,306	-9,312	100.00

TEMPERATURES	Cooling	Heating
SADB	58.0	88.6
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.5	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	359	359
Terminal	359	359
Main Fan	359	359
Sec Fan	0	0
Nom Vent	41	41
AHU Vent	41	41
Infil	5	5
MinStop/Rh	0	0
Return	364	364
Exhaust	47	47
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.5	11.5
cfm/ft²	0.71	0.71
cfm/ton	514.32	
ft²/ton	723.87	
Btu/hr·ft²	16.58	-26.12
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.7	8.3	6.3	359	76.5	62.3	76.2	58.0	54.0	66.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	41	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	505		
Part	0		
Int Door	1		
ExFlr	0		
Roof	505	0	0
Wall	280	119	43
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.8	359	63.2	88.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.4	41	-7.0	55.0
Total	-13.2			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 4

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 12; OADB: 86
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	804	0	804	12	323	6	Roof Cond	-1,131	-1,131	14.23
Glass Solar	1,427	0	1,427	22	2,191	44	Glass Solar	0	0	0.00
Glass/Door Cond	534	0	534	8	269	5	Glass/Door Cond	-2,610	-2,610	32.84
Wall Cond	459	0	459	7	647	13	Wall Cond	-1,124	-1,124	14.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	145		145	2	55	1	Infiltration	-351	-351	4.42
Sub Total ==>	3,369	0	3,369	52	3,484	70	*Sub Total ==>*	-5,216	-5,216	65.62
Internal Loads							**Internal Loads**			
Lights	627	157	783	12	627	13	Lights	0	0	0.00
People	900	0	900	14	500	10	People	0	0	0.00
Misc	392	0	392	6	392	8	Misc	0	0	0.00
Sub Total ==>	1,918	157	2,075	32	1,518	30	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,083	17	0	0	**Ventilation Load**	0	-532	6.70
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-18	-18	0			**OA Preheat Diff.**		-2,200	27.68
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,288	139	6,509	100.00	5,002	100.00	***Grand Total ==>***	-5,216	-7,947	100.00

TEMPERATURES	Cooling	Heating
SADB	59.4	85.3
Ra Plenum	74.0	70.0
Return	74.5	70.0
Ret/OA	76.3	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	361	361
Terminal	361	361
Main Fan	361	361
Sec Fan	0	0
Nom Vent	37	37
AHU Vent	37	37
Infil	5	5
MinStop/Rh	0	0
Return	366	366
Exhaust	42	42
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	10.4	10.4
cfm/ft²	0.79	0.79
cfm/ton	575.36	
ft²/ton	731.64	
Btu/hr·ft²	16.40	-24.36
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	7.5	5.6	361	76.3	62.2	76.0	59.4	54.8	68.1
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	37	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	459		
Part	0		
Int Door	1		
ExFlr	0		
Roof	459	0	0
Wall	308	80	26
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.0	361	64.2	85.3
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	37	-7.0	55.0
Total	-11.2			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU Bedroom 5

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 15; OADB: 93
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	685	0	685	14	685	20	Roof Cond	-963	-963	16.73
Glass Solar	713	0	713	14	713	21	Glass Solar	0	0	0.00
Glass/Door Cond	267	0	267	5	267	8	Glass/Door Cond	-1,305	-1,305	22.65
Wall Cond	354	0	354	7	354	10	Wall Cond	-865	-865	15.02
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	123		123	2	75	2	Infiltration	-299	-299	5.19
Sub Total ==>	2,143	0	2,143	43	2,095	61	*Sub Total ==>*	-3,433	-3,433	59.60
Internal Loads							**Internal Loads**			
Lights	534	133	667	13	534	15	Lights	0	0	0.00
People	900	0	900	18	500	14	People	0	0	0.00
Misc	334	0	334	7	334	10	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	38	1,367	39	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	923	19	0	0	**Ventilation Load**	0	-453	7.87
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-22	-22	0			**OA Preheat Diff.**		-1,874	32.53
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,911	111	4,945	100.00	3,462	100.00	***Grand Total ==>***	-3,433	-5,760	100.00

TEMPERATURES	Cooling	Heating
SADB	56.9	87.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.2	67.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	214	214
Terminal	214	214
Main Fan	214	214
Sec Fan	0	0
Nom Vent	32	32
AHU Vent	32	32
Infil	4	4
MinStop/Rh	0	0
Return	218	218
Exhaust	36	36
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	14.9	14.9
cfm/ft²	0.55	0.55
cfm/ton	448.39	
ft²/ton	819.89	
Btu/hr·ft²	14.64	-20.32
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	5.7	4.1	214	77.2	62.6	76.9	56.9	53.1	64.7
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	32	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	391	0	0
Wall	216	40	19
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.1	214	63.0	87.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.9	32	-7.0	55.0
Total	-8.0			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU den 1

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 15; OADB: 93
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	428	0	428	6	428	8	Roof Cond	-604	-604	6.14
Glass Solar	2,094	0	2,094	31	2,094	37	Glass Solar	0	0	0.00
Glass/Door Cond	1,175	0	1,175	17	1,175	21	Glass/Door Cond	-5,803	-5,803	59.03
Wall Cond	850	0	850	13	850	15	Wall Cond	-1,779	-1,779	18.09
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	47	1	Infiltration	-187	-187	1.91
Sub Total ==>	4,625	0	4,625	69	4,594	81	*Sub Total ==>*	-8,373	-8,373	85.17
Internal Loads							**Internal Loads**			
Lights	334	84	418	6	334	6	Lights	0	0	0.00
People	900	0	900	13	500	9	People	0	0	0.00
Misc	209	0	209	3	209	4	Misc	0	0	0.00
Sub Total ==>	1,444	84	1,527	23	1,044	19	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	578	9	0	0	**Ventilation Load**	0	-284	2.89
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-5	-5	0			**OA Preheat Diff.**		-1,174	11.94
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,068	79	6,725	100.00	5,638	100.00	***Grand Total ==>***	-8,373	-9,831	100.00

TEMPERATURES	Cooling	Heating
SADB	58.8	92.6
Ra Plenum	74.0	70.0
Return	74.2	70.0
Ret/OA	75.1	69.2
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	391	391
Terminal	391	391
Main Fan	391	391
Sec Fan	0	0
Nom Vent	20	20
AHU Vent	20	20
Infil	3	3
MinStop/Rh	0	0
Return	394	394
Exhaust	23	23
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	5.1	5.1
cfm/ft²	1.60	1.60
cfm/ton	604.81	
ft²/ton	379.03	
Btu/hr·ft²	31.66	-60.00
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	7.7	6.1	391	75.1	61.6	74.9	58.8	54.5	67.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	20	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	7.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	245		
Part	0		
Int Door	1		
ExFlr	0		
Roof	245	0	0
Wall	539	178	33
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-13.5	391	63.4	92.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.2	20	-7.0	55.0
Total	-14.7			

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Zone Checksums
By WSP USA INC.

B702 unit K FCU Living Room

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17; Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK — Mo/Hr: 7 / 18; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	4,351	0	4,351	12	4,315	14	Roof Cond	-5,219	-5,219	9.51
Glass Solar	10,364	0	10,364	28	12,486	39	Glass Solar	0	0	0.00
Glass/Door Cond	5,605	0	5,605	15	4,800	15	Glass/Door Cond	-29,384	-29,384	53.52
Wall Cond	3,302	0	3,302	9	3,108	10	Wall Cond	-6,075	-6,075	11.06
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	484		484	1	294	1	Infiltration	-1,621	-1,621	2.95
Sub Total ==>	24,105	0	24,105	65	25,003	79	*Sub Total ==>*	-42,298	-42,298	77.04
Internal Loads							**Internal Loads**			
Lights	2,891	723	3,614	10	2,891	9	Lights	0	0	0.00
People	3,600	0	3,600	10	2,000	6	People	0	0	0.00
Misc	1,807	0	1,807	5	1,807	6	Misc	0	0	0.00
Sub Total ==>	8,299	723	9,022	24	6,699	21	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,762	10	0	0	**Ventilation Load**	0	-2,456	4.47
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-58	-58	0			**OA Preheat Diff.**		-10,151	18.49
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	32,404	664	36,830	100.00	31,702	100.00	***Grand Total ==>***	-42,298	-54,905	100.00

TEMPERATURES	Cooling	Heating
SADB	60.0	88.7
Ra Plenum	74.0	70.0
Return	74.3	70.0
Ret/OA	75.5	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	2,392	2,392
Terminal	2,392	2,392
Main Fan	2,392	2,392
Sec Fan	0	0
Nom Vent	173	173
AHU Vent	173	173
Infil	22	22
MinStop/Rh	0	0
Return	2,414	2,414
Exhaust	195	195
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	7.2	7.2
cfm/ft²	1.13	1.13
cfm/ton	674.51	
ft²/ton	597.31	
Btu/hr·ft²	20.09	-37.81
No. People	8	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	3.5	42.4	34.0	2,392	75.5	61.7	74.7	60.0	55.4	69.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.2	0.2	173	93.2	70.2	93.8	92.0	69.9	93.8
Total	3.6	42.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	2,118		
Part	0		
Int Door	1		
ExFlr	0		
Roof	2,118	0	0
Wall	2,134	901	42
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-69.9	2,392	64.0	88.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-10.2	173	-7.0	55.0
Total	-80.1			

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Zone Checksums
By WSP USA INC.

C202 Unit L FCU Bedroom 1

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 8 / 16; Outside Air: OADB/WB/HR: 89 / 68 / 90
CLG SPACE PEAK — Mo/Hr: 8 / 17; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,449	0	2,449	35	2,650	48	Glass Solar	0	0	0.00
Glass/Door Cond	436	0	436	6	401	7	Glass/Door Cond	-2,610	-2,610	30.53
Wall Cond	670	0	670	10	700	13	Wall Cond	-1,084	-1,084	12.68
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	-22		-22	0	-19.79	0	Floor	-373	-373	4.36
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	135		135	2	60	1	Infiltration	-356	-356	4.16
Sub Total ==>	3,668	0	3,668	53	3,790	69	*Sub Total ==>*	-4,422	-4,422	51.74
Internal Loads							**Internal Loads**			
Lights	740	185	925	13	740	13	Lights	0	0	0.00
People	900	0	900	13	500	9	People	0	0	0.00
Misc	462	0	462	7	462	8	Misc	0	0	0.00
Sub Total ==>	2,102	185	2,287	33	1,702	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	1,051	15	0	0	**Ventilation Load**	0	-539	6.30
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,359	-1,359	15.91
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-26	-26	0			**OA Preheat Diff.**		-2,226	26.05
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	5,771	159	6,981	100.00	5,493	100.00	***Grand Total ==>***	-5,782	-8,547	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.4	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	305	305
Terminal	305	305
Main Fan	305	305
Sec Fan	0	0
Nom Vent	38	38
AHU Vent	38	38
Infil	5	5
MinStop/Rh	0	0
Return	310	310
Exhaust	43	43
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	12.4	12.4
cfm/ft²	0.56	0.56
cfm/ton	454.12	
ft²/ton	805.86	
Btu/hr·ft²	14.89	-22.33
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.7	8.0	6.0	305	76.4	61.0	70.0	55.0	51.2	60.0
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	38	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.1								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	542		
Part	0		
Int Door	1		
ExFlr	95		
Roof	0	0	0
Wall	300	80	27
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.9	305	62.7	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	38	-7.0	55.0
Total	-12.1			

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Zone Checksums
By WSP USA INC.

C202 Unit L FCU Bedroom 2

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 8 / 13; Outside Air: OADB/WB/HR: 87 / 67 / 83
CLG SPACE PEAK — Mo/Hr: 8 / 12; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,340	0	2,340	41	2,534	56	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	37.56
Wall Cond	405	0	405	7	388	9	Wall Cond	-670	-670	9.65
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	82		82	1	32	1	Infiltration	-276	-276	3.97
Sub Total ==>	3,119	0	3,119	55	3,127	69	*Sub Total ==>*	-3,556	-3,556	51.18
Internal Loads							**Internal Loads**			
Lights	575	144	718	13	575	13	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	359	0	359	6	359	8	Misc	0	0	0.00
Sub Total ==>	1,834	144	1,978	35	1,434	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	641	11	0	0	**Ventilation Load**	0	-418	6.02
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,245	-1,245	17.91
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-19	-19	0			**OA Preheat Diff.**		-1,729	24.89
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,953	125	5,719	100.00	4,561	100.00	***Grand Total ==>***	-4,801	-6,949	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.0	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	254	254
Terminal	254	254
Main Fan	254	254
Sec Fan	0	0
Nom Vent	29	29
AHU Vent	29	29
Infil	4	4
MinStop/Rh	0	0
Return	257	257
Exhaust	33	33
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.6	11.6
cfm/ft²	0.60	0.60
cfm/ton	460.38	
ft²/ton	764.26	
Btu/hr·ft²	15.70	-23.48
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	6.6	5.0	254	76.0	60.6	68.4	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	29	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.6	6.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	421		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	216	80	37
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.2	254	62.8	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	29	-7.0	55.0
Total	-9.9			

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Zone Checksums
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C202 Unit L FCU Bedroom 3

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 8 / 13; Outside Air: OADB/WB/HR: 87 / 67 / 83
CLG SPACE PEAK — Mo/Hr: 8 / 12; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,340	0	2,340	42	2,534	56	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	38.69
Wall Cond	405	0	405	7	388	9	Wall Cond	-670	-670	9.94
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	77		77	1	30	1	Infiltration	-258	-258	3.83
Sub Total ==>	3,113	0	3,113	56	3,125	69	*Sub Total ==>*	-3,538	-3,538	52.45
Internal Loads							**Internal Loads**			
Lights	538	134	672	12	538	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	336	0	336	6	336	7	Misc	0	0	0.00
Sub Total ==>	1,774	134	1,909	34	1,374	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	600	11	0	0	**Ventilation Load**	0	-392	5.80
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,197	-1,197	17.75
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-17	-17	0			**OA Preheat Diff.**		-1,619	23.99
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,887	118	5,605	100.00	4,499	100.00	***Grand Total ==>***	-4,736	-6,746	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	250	250
Terminal	250	250
Main Fan	250	250
Sec Fan	0	0
Nom Vent	28	28
AHU Vent	28	28
Infil	4	4
MinStop/Rh	0	0
Return	254	254
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.44	
ft²/ton	729.92	
Btu/hr·ft²	16.44	-24.44
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	6.5	4.9	250	75.9	60.5	68.3	55.0	50.8	58.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	28	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.5								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	394		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	216	80	37
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.0	250	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	28	-7.0	55.0
Total	-9.6			

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Zone Checksums
By WSP USA INC.

C202 Unit L FCU Bedroom 4

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 14; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 7 / 12; OADB: 86
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	843	0	843	18	1,089	31	Glass Solar	0	0	0.00
Glass/Door Cond	242	0	242	5	134	4	Glass/Door Cond	-1,305	-1,305	22.72
Wall Cond	886	0	886	18	923	26	Wall Cond	-2,168	-2,168	37.76
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	109		109	2	40	1	Infiltration	-257	-257	4.48
Sub Total ==>	2,080	0	2,080	43	2,186	61	*Sub Total ==>*	-3,730	-3,730	64.96
Internal Loads							**Internal Loads**			
Lights	535	134	669	14	535	15	Lights	0	0	0.00
People	900	0	900	19	500	14	People	0	0	0.00
Misc	334	0	334	7	334	9	Misc	0	0	0.00
Sub Total ==>	1,770	134	1,903	40	1,370	39	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	842	18	0	0	**Ventilation Load**	0	-390	6.78
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-12	-12	0.22
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-21	-21	0			**OA Preheat Diff.**		-1,610	28.04
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,850	113	4,805	100.00	3,556	100.00	***Grand Total ==>***	-3,743	-5,743	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.1	67.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	198	198
Terminal	198	198
Main Fan	198	198
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	201	201
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	13.9	13.9
cfm/ft²	0.50	0.50
cfm/ton	426.93	
ft²/ton	846.48	
Btu/hr·ft²	14.18	-20.58
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	5.5	4.0	198	77.1	61.5	71.3	55.0	51.1	59.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	5.6								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	392		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	480	40	8
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.5	198	62.4	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-8.1			

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Zone Checksums
By WSP USA INC.

C202 Unit L FCU Living Room

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 15; Outside Air: OADB/WB/HR: 93 / 70 / 94
CLG SPACE PEAK — Mo/Hr: 7 / 14; OADB: 92
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	3,913	0	3,913	17	4,253	24	Glass Solar	0	0	0.00
Glass/Door Cond	2,780	0	2,780	12	2,504	14	Glass/Door Cond	-13,401	-13,401	48.67
Wall Cond	1,247	0	1,247	5	1,307	7	Wall Cond	-2,523	-2,523	9.16
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	531		531	2	279	2	Infiltration	-1,177	-1,177	4.28
Sub Total ==>	8,471	0	8,471	36	8,342	48	*Sub Total ==>*	-17,101	-17,101	62.11
Internal Loads							**Internal Loads**			
Lights	2,450	613	3,063	13	2,450	14	Lights	0	0	0.00
People	3,150	0	3,150	13	1,750	10	People	0	0	0.00
Misc	1,531	0	1,531	7	1,531	9	Misc	0	0	0.00
Sub Total ==>	7,132	613	7,744	33	5,732	33	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	3,989	17	0	0	**Ventilation Load**	0	-1,784	6.48
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,276	-1,276	4.63
Ov/Undr Sizing	3,384		3,384	14	3,384	19	**Exhaust Heat**		0	0.00
Exhaust Heat		-88	-88	0			**OA Preheat Diff.**		-7,373	26.78
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	18,987	525	23,500	100.00	17,458	100.00	***Grand Total ==>***	-18,377	-27,534	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	76.9	68.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	971	971
Terminal	971	971
Main Fan	971	971
Sec Fan	0	0
Nom Vent	126	126
AHU Vent	126	126
Infil	16	16
MinStop/Rh	0	0
Return	987	987
Exhaust	142	142
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	12.9	12.9
cfm/ft²	0.54	0.54
cfm/ton	436.95	
ft²/ton	807.88	
Btu/hr·ft²	14.85	-21.66
No. People	7	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	2.2	26.5	20.0	971	76.9	61.7	72.3	55.0	51.5	61.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.1	0.1	126	93.2	70.2	93.8	92.0	69.9	93.8
Total	2.2	26.7								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	1,795		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	923	411	45
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-31.5	971	62.6	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-7.4	126	-7.0	55.0
Total	-38.9			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 1

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 17; Outside Air: OADB/WB/HR: 90 / 68 / 85
CLG SPACE PEAK — Mo/Hr: 8 / 17; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	818	0	818	11	715	12	Roof Cond	-976	-976	10.59
Glass Solar	2,288	0	2,288	30	2,605	43	Glass Solar	0	0	0.00
Glass/Door Cond	503	0	503	7	398	6	Glass/Door Cond	-2,610	-2,610	28.31
Wall Cond	615	0	615	8	635	10	Wall Cond	-848	-848	9.20
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	128		128	2	60	1	Infiltration	-357	-357	3.87
Sub Total ==>	4,351	0	4,351	57	4,413	72	*Sub Total ==>*	-4,790	-4,790	51.96
Internal Loads							**Internal Loads**			
Lights	743	186	928	12	743	12	Lights	0	0	0.00
People	900	0	900	12	500	8	People	0	0	0.00
Misc	464	0	464	6	464	8	Misc	0	0	0.00
Sub Total ==>	2,107	186	2,293	30	1,707	28	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	993	13	0	0	**Ventilation Load**	0	-541	5.87
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,652	-1,652	17.93
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-23	-23	0			**OA Preheat Diff.**		-2,235	24.24
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,457	163	7,613	100.00	6,120	100.00	***Grand Total ==>***	-6,442	-9,218	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	76.3	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	340	340
Terminal	340	340
Main Fan	340	340
Sec Fan	0	0
Nom Vent	38	38
AHU Vent	38	38
Infil	5	5
MinStop/Rh	0	0
Return	345	345
Exhaust	43	43
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.2	11.2
cfm/ft²	0.63	0.63
cfm/ton	464.18	
ft²/ton	741.98	
Btu/hr·ft²	16.17	-24.16
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.7	8.8	6.8	340	76.3	60.7	68.7	55.0	51.1	59.4
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	38	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.7	8.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	544		
Part	0		
Int Door	1		
ExFlr	0		
Roof	396	0	0
Wall	252	80	32
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.9	340	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-2.2	38	-7.0	55.0
Total	-13.2			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 2

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 14; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 8 / 13; OADB: 87
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,092	0	2,092	26	2,706	41	Glass Solar	0	0	0.00
Glass/Door Cond	922	0	922	12	552	8	Glass/Door Cond	-4,958	-4,958	54.73
Wall Cond	718	0	718	9	647	10	Wall Cond	-1,764	-1,764	19.47
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	119		119	1	44	1	Infiltration	-266	-266	2.94
Sub Total ==>	3,851	0	3,851	48	3,949	59	*Sub Total ==>*	-6,989	-6,989	77.14
Internal Loads							**Internal Loads**			
Lights	554	139	693	9	554	8	Lights	0	0	0.00
People	900	0	900	11	500	8	People	0	0	0.00
Misc	346	0	346	4	346	5	Misc	0	0	0.00
Sub Total ==>	1,801	139	1,939	24	1,401	21	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	917	11	0	0	**Ventilation Load**	0	-404	4.45
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	0	0	0.00
Ov/Undr Sizing	1,290		1,290	16	1,290	19	**Exhaust Heat**		0	0.00
Exhaust Heat		-12	-12	0			**OA Preheat Diff.**		-1,668	18.41
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	6,942	127	7,985	100.00	6,640	100.00	***Grand Total ==>***	-6,989	-9,060	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.4	70.0
Ret/OA	75.8	68.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	369	369
Terminal	369	369
Main Fan	369	369
Sec Fan	0	0
Nom Vent	28	28
AHU Vent	28	28
Infil	4	4
MinStop/Rh	0	0
Return	373	373
Exhaust	32	32
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	7.7	7.7
cfm/ft²	0.91	0.91
cfm/ton	491.08	
ft²/ton	540.03	
Btu/hr·ft²	22.22	-32.56
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.8	9.0	7.1	369	75.8	60.3	67.5	55.0	51.1	59.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	28	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.8	9.0								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	406		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	510	152	30
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-11.6	369	63.6	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.7	28	-7.0	55.0
Total	-13.2			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 3

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 8 / 13; Outside Air: OADB/WB/HR: 87 / 67 / 83
CLG SPACE PEAK — Mo/Hr: 8 / 12; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,340	0	2,340	42	2,534	57	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	39.03
Wall Cond	369	0	369	7	354	8	Wall Cond	-611	-611	9.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	76		76	1	30	1	Infiltration	-256	-256	3.84
Sub Total ==>	3,077	0	3,077	55	3,090	69	*Sub Total ==>*	-3,477	-3,477	52.00
Internal Loads							**Internal Loads**			
Lights	534	133	667	12	534	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	334	0	334	6	334	7	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	34	1,367	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	595	11	0	0	**Ventilation Load**	0	-389	5.81
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,215	-1,215	18.17
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,606	24.02
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,844	117	5,556	100.00	4,458	100.00	***Grand Total ==>***	-4,692	-6,687	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	248	248
Terminal	248	248
Main Fan	248	248
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	251	251
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.28	
ft²/ton	730.79	
Btu/hr·ft²	16.42	-24.41
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	6.4	4.9	248	75.9	60.6	68.4	55.0	50.8	58.4
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	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	248	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-9.6			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 4

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 8 / 13; Outside Air: OADB/WB/HR: 87 / 67 / 83
CLG SPACE PEAK — Mo/Hr: 8 / 12; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	2,340	0	2,340	42	2,534	57	Glass Solar	0	0	0.00
Glass/Door Cond	292	0	292	5	172	4	Glass/Door Cond	-2,610	-2,610	39.03
Wall Cond	369	0	369	7	354	8	Wall Cond	-611	-611	9.14
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	76		76	1	30	1	Infiltration	-256	-256	3.84
Sub Total ==>	3,077	0	3,077	55	3,090	69	*Sub Total ==>*	-3,477	-3,477	52.00
Internal Loads							**Internal Loads**			
Lights	534	133	667	12	534	12	Lights	0	0	0.00
People	900	0	900	16	500	11	People	0	0	0.00
Misc	334	0	334	6	334	7	Misc	0	0	0.00
Sub Total ==>	1,767	133	1,901	34	1,367	31	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	595	11	0	0	**Ventilation Load**	0	-389	5.81
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-1,215	-1,215	18.17
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-16	-16	0			**OA Preheat Diff.**		-1,606	24.02
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	4,844	117	5,556	100.00	4,458	100.00	***Grand Total ==>***	-4,692	-6,687	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.6	70.0
Ret/OA	75.9	68.3
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	248	248
Terminal	248	248
Main Fan	248	248
Sec Fan	0	0
Nom Vent	27	27
AHU Vent	27	27
Infil	4	4
MinStop/Rh	0	0
Return	251	251
Exhaust	31	31
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	11.0	11.0
cfm/ft²	0.63	0.63
cfm/ton	463.28	
ft²/ton	730.79	
Btu/hr·ft²	16.42	-24.41
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	6.4	4.9	248	75.9	60.6	68.4	55.0	50.8	58.4
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	27	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.5	6.4								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	391		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	204	80	39
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.9	248	62.9	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.6	27	-7.0	55.0
Total	-9.6			

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Zone Checksums
By WSP USA INC.

C702 Unit M FCU bedrooM FCU 5

COOLING COIL PEAK — Peaked at Time: Mo/Hr: 7 / 14; Outside Air: OADB/WB/HR: 92 / 69 / 91
CLG SPACE PEAK — Mo/Hr: 8 / 12; OADB: 83
HEATING COIL PEAK — Mo/Hr: Heating Design; OADB: -7

	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	843	0	843	20	1,267	41	Glass Solar	0	0	0.00
Glass/Door Cond	244	0	244	6	86	3	Glass/Door Cond	-1,305	-1,305	25.67
Wall Cond	411	0	411	10	434	14	Wall Cond	-749	-749	14.73
Partition/Door	0		0	0	0	0	Partition/Door	0	0	0.00
Floor	0		0	0	0.00	0	Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00	0.00	0.00	0.00	Adjacent Floor	0.00	0.00	0.00
Infiltration	98		98	2	27	1	Infiltration	-234	-234	4.59
Sub Total ==>	1,596	0	1,596	39	1,814	58	*Sub Total ==>*	-2,287	-2,287	45.00
Internal Loads							**Internal Loads**			
Lights	486	122	608	15	486	16	Lights	0	0	0.00
People	900	0	900	22	500	16	People	0	0	0.00
Misc	304	0	304	7	304	10	Misc	0	0	0.00
Sub Total ==>	1,690	122	1,811	44	1,290	42	*Sub Total ==>*	0	0	0.00
Ceiling Load	0	0	0	0	0	0	**Ceiling Load**	0	0	0.00
Ventilation Load	0	0	756	18	0	0	**Ventilation Load**	0	-354	6.96
Adj Air Trans Heat	0		0	0	0	0	**Adj Air Trans Heat**	0	0	0
Dehumid. Ov Sizing			0	0			**Ov/Undr Sizing**	-980	-980	19.28
Ov/Undr Sizing	0		0	0	0	0	**Exhaust Heat**		0	0.00
Exhaust Heat		-19	-19	0			**OA Preheat Diff.**		-1,462	28.77
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	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			**Supply Air Leakage**		0	0.00
Grand Total ==>	3,286	102	4,143	100.00	3,104	100.00	***Grand Total ==>***	-3,267	-5,084	100.00

TEMPERATURES	Cooling	Heating
SADB	55.0	90.0
Ra Plenum	74.0	70.0
Return	74.7	70.0
Ret/OA	77.2	67.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS	Cooling	Heating
Diffuser	173	173
Terminal	173	173
Main Fan	173	173
Sec Fan	0	0
Nom Vent	25	25
AHU Vent	25	25
Infil	3	3
MinStop/Rh	0	0
Return	176	176
Exhaust	28	28
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS	Cooling	Heating
% OA	14.4	14.4
cfm/ft²	0.48	0.48
cfm/ton	432.12	
ft²/ton	891.26	
Btu/hr·ft²	13.46	-20.00
No. People	2	

COOLING COIL SELECTION	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.4	4.8	3.4	173	77.2	61.7	72.0	55.0	51.5	61.0
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	25	93.2	70.2	93.8	92.0	69.9	93.8
Total	0.4	4.8								

AREAS	Gross Total	Glass ft²	Glass (%)
Floor	356		
Part	0		
Int Door	1		
ExFlr	0		
Roof	0	0	0
Wall	192	40	21
Ext Door	0	0	0

HEATING COIL SELECTION	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.7	173	62.3	90.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-1.5	25	-7.0	55.0
Total	-7.1			

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Reserved for permit stamp

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project manager ____________
drawn by ____________
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checked by Checker
job no.
date 5/17/2024

revisions:

no.	date	by

IFC Set 2 of 3
5/17/2024

HVAC LOAD CALCULATION

M0.12