

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

Alternative 1

		WALL				WINDOW						
System Zone Room		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
10-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	694	25.2	4,006	28.6	1,452	0	0.925	1,900	17.9	0	0.0
10-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
2-East-Zone 1	Zn Tot/Ave	2,872	59.6	14,461	62.1	16,320	0	0.839	2,534	9.9	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
2-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
3-East-Zone 1	Zn Tot/Ave	2,872	59.6	14,461	62.1	16,320	0	0.839	2,534	9.9	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
3-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
4-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
4-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
5-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
5-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
6-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
6-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
7-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
7-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
8-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

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System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
8-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
8-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
9-East-Zone 1	Zn Tot/Ave	817	60.8	4,103	63.1	4,246	0	0.801	736	10.3	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	649	23.6	3,738	26.7	1,372	0	0.945	1,824	17.2	0	0.0
9-West-Zone 1	Zn Tot/Ave	2,576	66.0	14,727	69.4	5,039	0	0.948	1,192	16.6	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	40,540	51.3	224,094	54.8	120,138	0	0.877	37,434	14.3	0	0.0
Water Package AC-30 Ton	Sys Block	30,762	39.0	172,962	42.3	62,279	0	0.458	45,000	17.2	0	0.0
11- Pavilion	Zn Tot/Ave	2,178	42.1	10,792	42.8	32,367	0	0.625	3,652	12.0	0	0.0
RTU-1	Sys Tot/Ave	2,178	42.1	10,792	42.8	32,367	0	0.625	3,652	12.0	0	0.0
RTU-1	Sys Block	2,178	42.1	10,792	42.8	32,367	0	0.625	3,652	12.0	0	0.0
1-East-Zone 1	Zn Tot/Ave	2,583	53.6	13,510	58.0	12,658	0	0.667	3,067	12.0	0	0.0
1-East-Zone 2	Zn Tot/Ave	2,976	53.6	15,564	58.0	14,582	0	0.667	3,533	12.0	0	0.0
1-East-Zone 3	Zn Tot/Ave	2,323	55.3	12,081	59.4	14,103	0	0.851	2,156	9.6	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Landmark	Zn Tot/Ave	597	21.7	3,647	26.0	2,706	0	0.959	1,506	16.6	0	0.0
1-North-Zone 2	Zn Tot/Ave	1,236	22.3	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
1-North-Zone 3	Zn Tot/Ave	43	22.3	264	26.7	301	0	0.945	140	16.3	0	0.0
1-South-Zone 1	Zn Tot/Ave	2,770	56.0	12,861	60.4	21,630	0	0.963	6,791	16.3	0	0.0
1-South-Landmark	Zn Tot/Ave	1,083	61.2	4,969	65.2	19,567	0	0.955	1,029	8.1	0	0.0
1-South-Zone 3	Zn Tot/Ave	373	61.2	1,713	65.2	10,761	0	0.955	455	7.8	0	0.0
1-West-Zone 1	Zn Tot/Ave	2,106	54.0	12,363	58.3	4,298	0	0.809	1,239	17.3	0	0.0
1-West-Zone 2	Zn Tot/Ave	814	65.2	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
1-North-Zone 1	Zn Tot/Ave	600	21.8	3,662	26.1	1,332	0	0.917	1,773	16.7	0	0.0
WSHP	Sys Tot/Ave	17,506	45.7	92,864	49.6	109,703	0	0.846	25,772	13.6	0	0.0
WSHP	Sys Block	13,050	34.2	71,882	38.4	64,651	0	0.529	31,980	16.9	0	0.0
10-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
10-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

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System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD		Solar		Conduction	CLTD	Conduction	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	1,389	25.1	8,054	28.6	2,919	0	0.925	3,820	17.9	0	0.0
10-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
10-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
10-South-Zone 2	Zn Tot/Ave	1,008	57.0	4,604	60.4	7,743	0	0.963	2,431	16.3	0	0.0
10-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
10-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
2-East-Zone 2	Zn Tot/Ave	3,293	59.4	16,660	62.1	18,801	0	0.839	2,920	9.9	0	0.0
2-East-Zone 3	Zn Tot/Ave	2,496	59.4	12,624	62.1	14,246	0	0.839	2,212	9.9	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
2-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
2-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
2-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
2-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
2-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
3-East-Zone 2	Zn Tot/Ave	3,293	59.4	16,660	62.1	18,801	0	0.839	2,920	9.9	0	0.0
3-East-Zone 3	Zn Tot/Ave	2,496	59.4	12,624	62.1	14,246	0	0.839	2,212	9.9	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
3-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
3-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
3-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
3-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
3-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
4-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
4-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
4-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
4-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
4-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
4-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
4-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0

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		WALL				WINDOW						
System Zone Room		Plenum Load	Plenum CLTD	Space Load	Space CLTD	Space Solar	Plenum Solar	Solar CLF	Space Conduction	Space CLTD	Plenum Conduction	Plenum CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
5-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
5-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
5-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
5-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
5-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
5-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
5-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
6-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
6-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
6-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
6-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
6-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
6-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
6-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
7-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
7-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
7-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
7-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
7-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
7-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
7-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
8-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
8-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
8-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum Load	Plenum CLTD	Space Load	Space CLTD	Space Solar	Plenum Solar	Solar CLF	Space Conduction	Space CLTD	Plenum Conduction	Plenum CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
8-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
8-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
8-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
8-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
9-East-Zone 2	Zn Tot/Ave	935	60.4	4,727	63.1	4,892	0	0.801	848	10.3	0	0.0
9-East-Zone 3	Zn Tot/Ave	709	60.4	3,582	63.1	3,707	0	0.801	642	10.3	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	1,282	23.2	7,515	26.7	2,758	0	0.945	3,666	17.2	0	0.0
9-North-Zone 3	Zn Tot/Ave	45	23.2	264	26.7	301	0	0.945	140	16.3	0	0.0
9-South-Zone 1	Zn Tot/Ave	3,069	62.1	13,883	65.2	28,117	0	0.955	3,397	8.2	0	0.0
9-South-Zone 2	Zn Tot/Ave	1,099	62.1	4,969	65.2	10,065	0	0.955	1,216	8.2	0	0.0
9-South-Zone 3	Zn Tot/Ave	343	56.2	1,542	58.7	12,605	0	0.973	-166	-2.8	0	0.0
9-West-Zone 2	Zn Tot/Ave	825	66.0	4,714	69.4	5,008	0	0.948	414	15.8	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	83,072	49.6	412,898	52.0	653,808	0	0.928	100,072	10.1	0	0.0
Water Package AC-35 Ton	Sys Block	64,246	38.8	333,463	41.9	422,828	0	0.729	160,152	16.2	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
10-East-Zone 1	Zn Tot/Ave	685	21.1	0	23.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	2,169	64.4	0	67.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	2,513	64.4	0	67.5	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	4,160	71.7	0	75.1	0	0	0.000	0	0.0	0	0.0
10-West-Zone 1	Zn Tot/Ave	7,764	68.3	0	71.7	0	0	0.000	0	0.0	0	0.0
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System	Zone	Room	ROOF				SKYLIGHT					
			Plenum	Plenum	Space	Space	Plenum	Plenum	Space	Space	Space	Space
			Sensible	CLTD	Sensible	CLTD	Conduction	CLTD	Conduction	CLTD	Conduction	CLTD
			Load	°F	Load	°F	Load	°F	Load	°F	Load	°F
			Btu/h		Btu/h		Btu/h		Btu/h		Btu/h	
							Solar CLF					
		8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		Water Package AC-30 Ton	Sys Tot/Ave	17,291	62.5	0	65.7	0	0	0.000	0	0.0
		Water Package AC-30 Ton	Sys Block	18,812	68.0	0	71.2	0	0	0.000	0	0.0
		11- Pavilion	Zn Tot/Ave	3,605	35.6	0	36.3	0	8,095	0.915	998	11.4
		RTU-1	Sys Tot/Ave	3,605	35.6	0	36.3	0	8,095	0.915	998	11.4
		RTU-1	Sys Block	3,605	35.6	0	36.3	0	8,095	0.915	998	11.4
		1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		WSHP	Sys Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0
		WSHP	Sys Block	0	0.0	0	0.0	0	0	0.000	0	0.0
		10-East-Zone 2	Zn Tot/Ave	1,323	20.7	0	23.5	0	0	0.000	0	0.0
		10-East-Zone 3	Zn Tot/Ave	567	20.7	0	23.5	0	0	0.000	0	0.0
		10-Interior-Zone 3	Zn Tot/Ave	4,274	64.0	0	67.5	0	0	0.000	0	0.0
		10-Interior-Zone 4	Zn Tot/Ave	1,493	64.0	0	67.5	0	0	0.000	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
10-Interior-Zone 5	Zn Tot/Ave	1,419	64.0	0	67.5	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	13,937	71.6	0	75.1	0	0	0.000	0	0.0	0	0.0
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 1	Zn Tot/Ave	1,260	41.3	0	44.4	0	0	0.000	0	0.0	0	0.0
10-South-Zone 2	Zn Tot/Ave	2,403	56.2	0	59.6	0	0	0.000	0	0.0	0	0.0
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 2	Zn Tot/Ave	784	68.3	0	71.7	0	0	0.000	0	0.0	0	0.0
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	27,460	56.9	0	60.2	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Block	26,431	54.7	0	58.2	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
10-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	11,269
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	5,421
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	8,193
10-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	94	135	75.4	569	13,011
10-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	32,964
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	68	115	74.4	437	36,807
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	68	115	74.4	437	36,807
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	200	74.3	417	10,584
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,403	75.1	3,634	5,681
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	200	75.1	519	8,394
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	354	75.4	1,144	25,200
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	1,610	15.1	5	95	208	75.3	590	2,503
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	75.1	2,080	3,252
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	1,552	15.1	5	90	195	75.3	554	2,391
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	2,351	14.2	10	183	399	75.1	1,033	3,966
Water Package AC-30 Ton	Sys Tot/Ave	0	0.0	5,514	14.7	752	13,135	28,828	75.1	76,580	563,555
Water Package AC-30 Ton	Sys Block	0	0.0	5,676	15.1	752	13,241	28,859	75.3	81,756	459,347
11- Pavilion	Zn Tot/Ave	0	0.0	0	0.0	42	610	1,615	72.7	998	64,911
RTU-1	Sys Tot/Ave	0	0.0	0	0.0	42	610	1,615	72.7	998	64,911
RTU-1	Sys Block	0	0.0	0	0.0	42	610	1,615	72.7	998	64,911
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	79	208	76.4	780	32,884
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	92	245	76.4	917	37,909
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	76.1	620	31,504
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	572	76.3	2,933	3,873
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	992	76.3	5,124	6,759
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,240	76.3	6,420	8,466
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	425	76.3	2,608	3,361
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	516	76.3	2,884	3,762
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	3	54	119	76.3	433	9,061
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	76.3	1,646	17,478
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	73	76.3	360	1,227
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	425	76.4	1,576	46,248
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	76.0	564	27,332
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	25	51	76.0	358	13,735
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	178	389	76.3	1,448	22,021
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	76.3	1,151	12,523
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	2	30	66	76.3	244	7,708
WSHP	Sys Tot/Ave	0	0.0	0	0.0	210	3,639	6,304	76.3	30,064	285,852
WSHP	Sys Block	0	0.0	0	0.0	210	3,793	6,524	76.3	30,207	222,086
10-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	13,609
10-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,832
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	12,013
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	4,637

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	4,896
10-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	212	305	75.5	1,322	31,957
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
10-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	51,156
10-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	166	75.4	482	18,913
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
10-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	13,086
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	80	135	74.7	572	42,461
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	56	96	74.7	405	32,135
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	80	135	74.7	572	42,461
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	56	96	74.7	405	32,135
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	235	74.7	570	12,285
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	167	74.7	404	9,265
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	790	75.5	2,325	3,477
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	451	75.5	1,326	17,205
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	75.5	290	1,185
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	100	205	75.1	1,125	49,896
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	39	80	75.1	439	17,907
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-5	-6	74.5	222	14,534
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	75.4	918	12,301
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	1,855	15.1	6	112	245	75.5	738	2,950
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	1,405	15.1	5	80	173	75.5	523	2,182
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,759	75.5	5,175	7,739
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	75.5	2,102	3,144
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	18	323	705	75.5	2,074	3,101
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	3,122	15.1	11	202	440	75.5	1,326	5,089
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	602	15.1	3	44	96	75.5	290	1,032
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	2,991	15.1	11	193	420	75.5	1,267	4,871
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	1,070	15.1	4	75	164	75.5	495	1,805
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	959	15.1	3	48	104	75.5	314	1,425
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	2,326	15.1	8	144	314	75.5	948	3,733
Water Package AC-35 Ton	Sys Tot/Ave	0	0.0	14,330	15.1	1,336	21,737	47,749	75.4	149,371	1,510,498
Water Package AC-35 Ton	Sys Block	0	0.0	11,960	12.6	1,336	23,536	51,954	75.4	150,810	1,245,380

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
10-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
7-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
11- Pavilion	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

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UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
1-South-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	6-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
9-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-35 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

Alternative 2

		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
System Zone Room												
10-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	469	24.7	2,513	26.0	1,516	0	0.959	929	16.1	0	0.0
10-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
2-East-Zone 1	Zn Tot/Ave	1,937	58.4	9,534	59.4	17,601	0	0.850	1,290	9.3	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
2-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
3-East-Zone 1	Zn Tot/Ave	1,937	58.4	9,534	59.4	17,601	0	0.850	1,290	9.3	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
3-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
4-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
4-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
5-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
5-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
6-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
6-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
7-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
7-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
8-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
8-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
8-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
9-East-Zone 1	Zn Tot/Ave	575	62.1	2,826	63.1	4,624	0	0.800	384	9.9	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	481	25.4	2,575	26.7	1,494	0	0.945	952	16.5	0	0.0
9-West-Zone 1	Zn Tot/Ave	1,829	68.0	10,145	69.4	5,492	0	0.948	622	16.0	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	28,675	52.7	153,271	54.4	130,466	0	0.880	19,414	13.7	0	0.0
Water Package AC-30 Ton	Sys Block	22,209	40.8	119,152	42.3	67,827	0	0.458	23,494	16.6	0	0.0
11- Pavilion	Zn Tot/Ave	7,915	77.7	39,415	79.4	32,485	0	0.625	5,015	12.2	0	0.0
RTU-1	Sys Tot/Ave	7,915	77.7	39,415	79.4	32,485	0	0.625	5,015	12.2	0	0.0
RTU-1	Sys Block	7,915	77.7	39,415	79.4	32,485	0	0.625	5,015	12.2	0	0.0
1-East-Zone 1	Zn Tot/Ave	1,882	56.7	9,307	58.0	13,780	0	0.665	1,601	11.5	0	0.0
1-East-Zone 2	Zn Tot/Ave	2,168	56.7	10,722	58.0	15,875	0	0.665	1,845	11.5	0	0.0
1-East-Zone 3	Zn Tot/Ave	1,643	56.7	8,124	58.0	12,029	0	0.665	1,398	11.5	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 1	Zn Tot/Ave	470	24.8	2,523	26.1	1,450	0	0.917	926	16.1	0	0.0
1-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
1-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
1-South-Zone 1	Zn Tot/Ave	2,013	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
1-South-Landmark	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
1-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
1-West-Zone 1	Zn Tot/Ave	1,531	57.0	8,517	58.3	4,681	0	0.808	647	16.6	0	0.0
1-West-Zone 2	Zn Tot/Ave	2,896	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
1-North-Landmark	Zn Tot/Ave	469	24.7	2,513	26.0	1,516	0	0.959	929	16.1	0	0.0
WSHP	Sys Tot/Ave	16,195	55.8	81,223	57.1	97,909	0	0.801	16,089	14.3	0	0.0
WSHP	Sys Block	12,208	42.1	61,567	43.3	60,915	0	0.499	18,347	16.3	0	0.0
10-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
10-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
System Zone Room												
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	942	24.7	5,051	26.0	3,048	0	0.959	1,868	16.1	0	0.0
10-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
10-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
10-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
10-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
10-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
2-East-Zone 2	Zn Tot/Ave	2,232	58.4	10,983	59.4	20,278	0	0.850	1,486	9.3	0	0.0
2-East-Zone 3	Zn Tot/Ave	1,691	58.4	8,322	59.4	15,365	0	0.850	1,126	9.3	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
2-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
2-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
2-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
2-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
2-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
3-East-Zone 2	Zn Tot/Ave	2,232	58.4	10,983	59.4	20,278	0	0.850	1,486	9.3	0	0.0
3-East-Zone 3	Zn Tot/Ave	1,691	58.4	8,322	59.4	15,365	0	0.850	1,126	9.3	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
3-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
3-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
3-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
3-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
3-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
4-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
4-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
4-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
4-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
4-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
4-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
4-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

		WALL				WINDOW						
System Zone Room		Plenum Load	Plenum CLTD	Space Load	Space CLTD	Space Solar	Plenum Solar	Solar CLF	Space Conduction	Space CLTD	Plenum Conduction	Plenum CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
5-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
5-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
5-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
5-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
5-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
5-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
5-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
6-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
6-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
6-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
6-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
6-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
6-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
6-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
7-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
7-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
7-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
7-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
7-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
7-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
7-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
8-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
8-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
8-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum Load	Plenum CLTD	Space Load	Space CLTD	Space Solar	Plenum Solar	Solar CLF	Space Conduction	Space CLTD	Plenum Conduction	Plenum CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
8-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
8-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
8-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
8-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
9-East-Zone 2	Zn Tot/Ave	663	62.1	3,257	63.1	5,328	0	0.800	443	9.9	0	0.0
9-East-Zone 3	Zn Tot/Ave	502	62.1	2,467	63.1	4,037	0	0.800	335	9.9	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	967	25.3	5,177	26.7	3,004	0	0.945	1,914	16.5	0	0.0
9-North-Zone 3	Zn Tot/Ave	148	38.6	779	39.9	293	0	0.918	196	16.8	0	0.0
9-South-Zone 1	Zn Tot/Ave	2,014	59.1	8,860	60.4	23,536	0	0.963	3,546	15.7	0	0.0
9-South-Zone 2	Zn Tot/Ave	721	59.1	3,172	60.4	8,425	0	0.963	1,269	15.7	0	0.0
9-South-Zone 3	Zn Tot/Ave	1,286	107.1	5,606	108.4	8,297	0	0.963	1,250	15.7	0	0.0
9-West-Zone 2	Zn Tot/Ave	2,897	117.8	15,924	119.2	5,023	0	0.948	569	16.0	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	88,280	63.5	434,215	65.1	574,086	0	0.924	89,315	14.7	0	0.0
Water Package AC-35 Ton	Sys Block	69,127	49.8	339,324	50.9	410,901	0	0.662	99,906	16.5	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System	Zone Room	Plenum Sensible Load Btu/h	Plenum CLTD °F	Space Sensible Load Btu/h	Space CLTD °F	Plenum Solar Btu/h	Space Solar Btu/h	Solar CLF	Plenum Conduction Load Btu/h	Plenum CLTD °F	Space Conduction Load Btu/h	Space CLTD °F
10-East-Zone 1	Zn Tot/Ave	281	22.4	0	23.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	5,850	66.2	0	67.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	6,778	66.2	0	67.5	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	1,417	63.2	0	64.5	0	0	0.000	0	0.0	0	0.0
10-West-Zone 1	Zn Tot/Ave	3,089	70.3	0	71.7	0	0	0.000	0	0.0	0	0.0
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum	Plenum	Space	Space	Plenum	Space	Plenum	Plenum	Space	Space	
		Sensible	CLTD	Sensible	CLTD	Solar	Solar	Conduction	CLTD	Conduction	CLTD	
		Load	°F	Load	°F	Load	Load	Load	°F	Load	°F	
		Btu/h		Btu/h		Btu/h	Btu/h	Solar CLF	Btu/h		Btu/h	
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	17,414	64.6	0	65.9	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Block	18,913	70.1	0	71.5	0	0	0.000	0	0.0	0	0.0
11- Pavilion	Zn Tot/Ave	16,201	61.0	0	62.7	0	17,309	0.915	1,277	10.6	0	12.3
RTU-1	Sys Tot/Ave	16,201	61.0	0	62.7	0	17,309	0.915	1,277	10.6	0	12.3
RTU-1	Sys Block	16,201	61.0	0	62.7	0	17,309	0.915	1,277	10.6	0	12.3
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Block	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-East-Zone 2	Zn Tot/Ave	554	22.5	0	23.5	0	0	0.000	0	0.0	0	0.0
10-East-Zone 3	Zn Tot/Ave	237	22.5	0	23.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	11,603	66.2	0	67.5	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	4,053	66.2	0	67.5	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
10-Interior-Zone 5	Zn Tot/Ave	4,336	74.5	0	75.8	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	4,753	63.1	0	64.5	0	0	0.000	0	0.0	0	0.0
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 1	Zn Tot/Ave	688	58.4	0	59.6	0	0	0.000	0	0.0	0	0.0
10-South-Zone 2	Zn Tot/Ave	965	58.4	0	59.6	0	0	0.000	0	0.0	0	0.0
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 2	Zn Tot/Ave	1,777	58.9	0	60.3	0	0	0.000	0	0.0	0	0.0
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System	Zone	Room	ROOF				SKYLIGHT						
			Plenum	Plenum	Space	Space	Plenum	Space	Plenum	Plenum	Space	Space	
			Sensible	CLTD	Sensible	CLTD	Solar	Solar	Conduction	CLTD	Conduction	CLTD	
			Load	°F	Load	°F	Btu/h	Btu/h	Load	°F	Load	°F	
			Btu/h		Btu/h			Solar CLF	Btu/h		Btu/h		
8-North-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 1	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-West-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 1	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave		0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave		28,965	62.5	0	63.8	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Block		31,194	67.3	0	68.6	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
10-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	9,124
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	7,843
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	10,260
10-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	7,340
10-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	22,141
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	30,795
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	30,795
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	65	184	73.0	184	8,843
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,300	73.3	1,538	3,482
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	92	186	73.3	220	6,000
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	167	325	73.4	471	19,052
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	1,610	15.1	5	95	192	73.4	246	2,143
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	20	368	744	73.3	881	1,993
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	1,552	15.1	5	90	181	73.4	231	2,054
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	2,514	15.1	10	178	360	73.4	459	3,511
Water Package AC-30 Ton	Sys Tot/Ave	0	0.0	5,676	15.1	752	13,124	26,882	73.3	32,340	427,263
Water Package AC-30 Ton	Sys Block	0	0.0	5,676	15.1	752	13,241	26,687	73.4	34,061	331,260
11- Pavilion	Zn Tot/Ave	0	0.0	0	0.0	42	610	1,608	73.7	2,408	124,243
RTU-1	Sys Tot/Ave	0	0.0	0	0.0	42	610	1,608	73.7	2,408	124,243
RTU-1	Sys Block	0	0.0	0	0.0	42	610	1,608	73.7	2,408	124,243
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	79	208	73.3	226	27,082
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	92	244	73.3	266	31,212
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	65	173	73.3	188	23,621
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	368	803	73.3	882	2,053
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	643	1,402	73.3	1,541	3,586
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,757	73.3	1,931	4,494
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	714	73.3	784	1,826
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	789	73.3	867	2,019
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	2	30	65	73.3	75	5,541
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	450	73.3	495	12,214
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	99	73.3	108	1,669
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	425	73.3	464	39,037
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	4	75	166	73.3	181	14,009
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	105	73.3	115	16,707
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	178	388	73.3	447	16,389
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	286	73.4	372	25,205
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	3	54	118	73.3	130	5,729
WSHP	Sys Tot/Ave	0	0.0	0	0.0	210	3,709	8,192	73.3	9,074	232,392
WSHP	Sys Block	0	0.0	0	0.0	210	3,793	8,265	73.3	9,085	174,180
10-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,746
10-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,935
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	15,961
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	5,824

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	6,294
10-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	16,779
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
10-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	39,683
10-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	14,957
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
10-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	26,946
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	35,482
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	26,861
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	35,482
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	26,861
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION			CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Latent Btu/h	Plenum Dry Bulb °F	Load Btu/h	
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	77	215	73.0	211	10,192
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	54	153	73.0	149	7,698
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	362	727	73.3	869	1,958
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	207	415	73.3	496	12,179
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	45	91	73.3	108	1,661
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	193	391	73.3	455	38,995
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	75	153	73.3	178	13,992
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	48	97	73.3	113	16,697
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	135	260	73.3	360	25,169
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	1,855	15.1	6	112	225	73.3	282	2,474
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	1,405	15.1	5	80	159	73.3	200	1,844
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	806	1,619	73.3	1,934	4,359
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	328	658	73.3	786	1,771
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	18	323	649	73.3	775	1,747
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	3,122	15.1	11	202	404	73.3	507	4,234
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	602	15.1	3	44	88	73.3	111	845
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	2,991	15.1	11	193	386	73.3	484	4,053
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	1,070	15.1	4	75	151	73.3	189	1,485
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	959	15.1	3	48	96	73.3	120	1,222
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	2,326	15.1	8	144	289	73.3	362	3,121
Water Package AC-35 Ton	Sys Tot/Ave	0	0.0	14,330	15.1	1,336	23,321	47,727	73.3	56,675	1,356,914
Water Package AC-35 Ton	Sys Block	0	0.0	13,403	14.2	1,336	24,117	48,423	73.3	57,857	1,094,251

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
10-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
7-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
11- Pavilion	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	1-South-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	1-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	1-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	1-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	1-North-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
WSHP	Sys Tot/Ave		0	0	0.0	0.0	0	0	0	0	0
WSHP	Sys Block		0	0	0.0	0.0	0	0	0	0	0
	10-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
4-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
5-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	6-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE COOLING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply	Uflr Plen Air	--- Supply Temperature ---		Uflr Plenum	Conduction	Conduction	Conduction	Conduction	Conduction
		Airflow into Uflr Plen cfm	Leakage To Space cfm	Entering Uflr Plen °F	Leaving Uflr Plen °F	Air Heat Pickup °F	From Adj Ceiling Plen Btu/h	From Adj Ceiling No Plen Btu/h	From Exp Floor Slab Btu/h	From Ext Wall Btu/h	Into Space Btu/h
System Zone Room											
9-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-35 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

Alternative 1

System Zone Room		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
10-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
10-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
2-East-Zone 1	Zn Tot/Ave	-2,540	-52.7	-12,814	-55.0	0	0	0.000	-13,917	-53.6	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
2-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
3-East-Zone 1	Zn Tot/Ave	-2,540	-52.7	-12,814	-55.0	0	0	0.000	-13,917	-53.6	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
3-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
4-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
4-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
5-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
5-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
6-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
6-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
7-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
7-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
8-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
System Zone Room												
8-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
9-East-Zone 1	Zn Tot/Ave	-709	-52.7	-3,576	-55.0	0	0	0.000	-3,884	-53.6	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	-1,453	-52.7	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
9-West-Zone 1	Zn Tot/Ave	-2,058	-52.7	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	-41,643	-52.7	-225,070	-55.0	0	0	0.000	-141,915	-53.6	0	0.0
Water Package AC-30 Ton	Sys Block	-41,643	-52.7	-225,070	-55.0	0	0	0.000	-141,915	-53.6	0	0.0
11- Pavilion	Zn Tot/Ave	-2,784	-53.8	-13,868	-55.0	0	0	0.000	-16,585	-54.4	0	0.0
RTU-1	Sys Tot/Ave	-2,784	-53.8	-13,868	-55.0	0	0	0.000	-16,585	-54.4	0	0.0
RTU-1	Sys Block	-2,784	-53.8	-13,868	-55.0	0	0	0.000	-16,585	-54.4	0	0.0
1-East-Zone 1	Zn Tot/Ave	-2,511	-52.1	-12,814	-55.0	0	0	0.000	-13,917	-53.6	0	0.0
1-East-Zone 2	Zn Tot/Ave	-2,892	-52.1	-14,762	-55.0	0	0	0.000	-16,033	-53.6	0	0.0
1-East-Zone 3	Zn Tot/Ave	-2,192	-52.1	-11,186	-55.0	0	0	0.000	-12,149	-53.6	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Landmark	Zn Tot/Ave	-1,436	-52.1	-7,713	-55.0	0	0	0.000	-4,945	-53.8	0	0.0
1-North-Zone 2	Zn Tot/Ave	-2,887	-52.1	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
1-North-Zone 3	Zn Tot/Ave	-102	-52.1	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
1-South-Zone 1	Zn Tot/Ave	-2,577	-52.1	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
1-South-Landmark	Zn Tot/Ave	-923	-52.1	-4,193	-55.0	0	0	0.000	-6,941	-53.8	0	0.0
1-South-Zone 3	Zn Tot/Ave	-318	-52.1	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
1-West-Zone 1	Zn Tot/Ave	-2,034	-52.1	-11,666	-55.0	0	0	0.000	-3,895	-53.6	0	0.0
1-West-Zone 2	Zn Tot/Ave	-651	-52.1	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
1-North-Zone 1	Zn Tot/Ave	-1,436	-52.1	-7,713	-55.0	0	0	0.000	-5,759	-53.6	0	0.0
WSHP	Sys Tot/Ave	-19,959	-52.1	-102,990	-55.0	0	0	0.000	-102,915	-53.6	0	0.0
WSHP	Sys Block	-19,905	-52.1	-103,047	-55.0	0	0	0.000	-102,915	-53.6	0	0.0
10-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
10-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
System Zone Room												
10-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
10-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
10-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
10-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
10-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
2-East-Zone 2	Zn Tot/Ave	-2,910	-52.4	-14,762	-55.0	0	0	0.000	-16,033	-53.6	0	0.0
2-East-Zone 3	Zn Tot/Ave	-2,205	-52.4	-11,186	-55.0	0	0	0.000	-12,149	-53.6	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
2-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
2-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
2-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
2-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
2-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
3-East-Zone 2	Zn Tot/Ave	-2,910	-52.4	-14,762	-55.0	0	0	0.000	-16,033	-53.6	0	0.0
3-East-Zone 3	Zn Tot/Ave	-2,205	-52.4	-11,186	-55.0	0	0	0.000	-12,149	-53.6	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
3-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
3-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
3-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
3-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
3-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
4-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
4-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
4-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
4-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
4-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
4-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
4-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
5-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
5-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
5-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
5-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
5-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
5-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
5-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
6-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
6-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
6-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
6-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
6-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
6-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
6-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
7-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
7-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
7-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
7-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
7-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
7-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
7-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
8-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
8-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
8-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
8-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
8-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
8-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
8-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
9-East-Zone 2	Zn Tot/Ave	-812	-52.4	-4,121	-55.0	0	0	0.000	-4,476	-53.6	0	0.0
9-East-Zone 3	Zn Tot/Ave	-615	-52.4	-3,122	-55.0	0	0	0.000	-3,391	-53.6	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	-2,905	-52.4	-15,506	-55.0	0	0	0.000	-11,578	-53.6	0	0.0
9-North-Zone 3	Zn Tot/Ave	-102	-52.4	-546	-55.0	0	0	0.000	-469	-54.4	0	0.0
9-South-Zone 1	Zn Tot/Ave	-2,593	-52.4	-11,713	-55.0	0	0	0.000	-22,581	-53.6	0	0.0
9-South-Zone 2	Zn Tot/Ave	-928	-52.4	-4,193	-55.0	0	0	0.000	-8,083	-53.6	0	0.0
9-South-Zone 3	Zn Tot/Ave	-320	-52.4	-1,445	-55.0	0	0	0.000	-3,209	-54.4	0	0.0
9-West-Zone 2	Zn Tot/Ave	-655	-52.4	-3,735	-55.0	0	0	0.000	-1,436	-54.4	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	-87,747	-52.4	-436,832	-55.0	0	0	0.000	-537,650	-53.6	0	0.0
Water Package AC-35 Ton	Sys Block	-86,921	-52.4	-437,698	-55.0	0	0	0.000	-537,650	-53.6	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum	Plenum	Space	Space	Plenum	Space		Plenum	Plenum	Space	Space
		Sensible	CLTD	Sensible	CLTD	Conduction	Solar		Conduction	CLTD	Conduction	CLTD
		Load	°F	Load	°F	Load	Solar	Solar CLF	Load	°F	Load	°F
		Btu/h		Btu/h		Btu/h	Btu/h		Btu/h		Btu/h	
10-East-Zone 1	Zn Tot/Ave	-1,709	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	-1,775	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	-2,057	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	-3,061	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 1	Zn Tot/Ave	-5,997	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum	Plenum CLTD	Space	Space CLTD	Plenum	Space Solar	Solar CLF	Plenum	Plenum CLTD	Space	Space CLTD
		Sensible		Sensible		Conduction			Conduction		Conduction	
		Load		Load		Load			Load		Load	
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	-14,600	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Block	-14,600	-52.7	0	-55.0	0	0	0.000	0	0.0	0	0.0
11- Pavilion	Zn Tot/Ave	-5,442	-53.8	0	-55.0	0	0	0.000	-4,675	-53.1	0	-54.3
RTU-1	Sys Tot/Ave	-5,442	-53.8	0	-55.0	0	0	0.000	-4,675	-53.1	0	-54.3
RTU-1	Sys Block	-5,442	-53.8	0	-55.0	0	0	0.000	-4,675	-53.1	0	-54.3
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Block	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-East-Zone 2	Zn Tot/Ave	-3,345	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-East-Zone 3	Zn Tot/Ave	-1,432	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	-3,501	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	-1,223	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum		Space		Plenum	Space		Plenum		Space	
		Sensible	Plenum	Sensible	Space	Solar	Solar		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Btu/h	Btu/h	Solar CLF	Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F				Btu/h	°F	Btu/h	°F
10-Interior-Zone 5	Zn Tot/Ave	-1,163	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	-10,212	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 1	Zn Tot/Ave	-1,599	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 2	Zn Tot/Ave	-2,241	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 2	Zn Tot/Ave	-602	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum		Space		Plenum	Space		Plenum		Space	
		Sensible	Plenum	Sensible	Space	Solar	Solar		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Btu/h	Btu/h	Solar CLF	Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F				Btu/h	°F	Btu/h	°F
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF							SKYLIGHT				
		Plenum		Space					Plenum		Space		
		Sensible	Plenum	Sensible	Space				Conduction	Plenum	Conduction	Space	
		Load	CLTD	Load	CLTD				Load	CLTD	Load	CLTD	
System	Zone Room	Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	Solar CLF	Btu/h	°F	Btu/h	°F	
	8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
	Water Package AC-35 Ton	Sys Tot/Ave	-25,319	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0
	Water Package AC-35 Ton	Sys Block	-25,319	-52.4	0	-55.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
10-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-10,617
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-4,553
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-6,909
10-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-18,679
10-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-24,996
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-30,009
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-30,009
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.7	-406	-8,908
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.7	-2,667	-4,853
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	67.7	-381	-15,618
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.7	-758	-18,999
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	-5,852	-55.0	5	-332	67.7	-406	-6,590
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.7	-1,527	-2,778
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	-5,643	-55.0	5	-312	67.7	-381	-6,336
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	-9,138	-55.0	10	-621	67.7	-758	-10,517
Water Package AC-30 Ton	Sys Tot/Ave	0	0.0	-20,633	-55.0	752	-46,091	67.7	-56,243	-546,194
Water Package AC-30 Ton	Sys Block	0	0.0	-20,633	-55.0	752	-46,091	67.7	-56,243	-546,194
11- Pavilion	Zn Tot/Ave	0	0.0	0	0.0	42	-2,580	68.8	-1,697	-47,630
RTU-1	Sys Tot/Ave	0	0.0	0	0.0	42	-2,580	68.8	-1,697	-47,630
RTU-1	Sys Block	0	0.0	0	0.0	42	-2,580	68.8	-1,697	-47,630
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	67.1	-515	-30,089
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.1	-605	-34,684
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.1	-429	-26,232
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	67.1	-1,938	-3,189
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	67.1	-3,385	-5,571
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.1	-4,242	-6,981
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.1	-1,723	-2,836
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.1	-1,906	-3,136
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	3	-185	67.1	-286	-14,565
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.1	-1,087	-31,761
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.1	-238	-1,508
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.1	-1,039	-38,581
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.1	-406	-12,724
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.1	-258	-5,396
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	67.1	-962	-19,179
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.1	-778	-7,102
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	2	-105	67.1	-162	-15,175
WSHP	Sys Tot/Ave	0	0.0	0	0.0	210	-12,886	67.1	-19,959	-258,709
WSHP	Sys Block	0	0.0	0	0.0	210	-12,886	67.1	-19,959	-258,712
10-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-13,684
10-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-9,220
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-10,020
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-3,871
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-4,091
10-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-41,873

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
10-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-40,082
10-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-16,069
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
10-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,623
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-34,635
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-26,198
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-34,635
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-26,198
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	67.4	-539	-10,339
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	67.4	-382	-7,788
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	67.4	-1,698	-2,928
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	67.4	-969	-31,660
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	67.4	-212	-1,483
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	67.4	-926	-38,484
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	67.4	-362	-13,827
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	67.4	-229	-5,370
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	67.4	-693	-7,021
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	-6,742	-55.0	6	-391	67.4	-539	-7,672
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	-5,108	-55.0	5	-277	67.4	-382	-5,768
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	67.4	-3,780	-6,518
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	67.4	-1,535	-2,648
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	18	-1,097	67.4	-1,515	-2,612
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	-11,348	-55.0	11	-702	67.4	-969	-13,019
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	-2,188	-55.0	3	-154	67.4	-212	-2,554
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	-10,870	-55.0	11	-671	67.4	-926	-12,467
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	-3,891	-55.0	4	-262	67.4	-362	-4,514
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	-3,485	-55.0	3	-166	67.4	-229	-3,881
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	-8,455	-55.0	8	-502	67.4	-693	-9,649
Water Package AC-35 Ton	Sys Tot/Ave	0	0.0	-52,086	-55.0	1,336	-81,928	67.4	-113,068	-1,334,631
Water Package AC-35 Ton	Sys Block	0	0.0	-52,086	-55.0	1,336	-81,928	67.4	-113,066	-1,334,669

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	10-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
7-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
11- Pavilion	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
1-South-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	3-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

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		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
6-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
6-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

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UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	9-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Water Package AC-35 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

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Alternative 2

System Zone Room		WALL				WINDOW						
		Plenum Load Btu/h	Plenum CLTD °F	Space Load Btu/h	Space CLTD °F	Space Solar Btu/h	Plenum Solar Btu/h	Solar CLF	Space Conduction Btu/h	Space CLTD °F	Plenum Conduction Btu/h	Plenum CLTD °F
10-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
10-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
2-East-Zone 1	Zn Tot/Ave	-1,788	-53.9	-8,827	-55.0	0	0	0.000	-7,600	-54.2	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
2-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
3-East-Zone 1	Zn Tot/Ave	-1,788	-53.9	-8,827	-55.0	0	0	0.000	-7,600	-54.2	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
3-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
4-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
4-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
5-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
5-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
6-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
6-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
7-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
7-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
8-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
8-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
9-East-Zone 1	Zn Tot/Ave	-499	-53.9	-2,464	-55.0	0	0	0.000	-2,121	-54.2	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	-1,023	-53.9	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
9-West-Zone 1	Zn Tot/Ave	-1,449	-53.9	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	-29,322	-53.9	-155,048	-55.0	0	0	0.000	-77,503	-54.2	0	0.0
Water Package AC-30 Ton	Sys Block	-29,322	-53.9	-155,048	-55.0	0	0	0.000	-77,503	-54.2	0	0.0
11- Pavilion	Zn Tot/Ave	-5,276	-51.8	-27,296	-55.0	0	0	0.000	-22,466	-54.2	0	0.0
RTU-1	Sys Tot/Ave	-5,276	-51.8	-27,296	-55.0	0	0	0.000	-22,466	-54.2	0	0.0
RTU-1	Sys Block	-5,276	-51.8	-27,296	-55.0	0	0	0.000	-22,466	-54.2	0	0.0
1-East-Zone 1	Zn Tot/Ave	-1,795	-54.1	-8,827	-55.0	0	0	0.000	-7,600	-54.2	0	0.0
1-East-Zone 2	Zn Tot/Ave	-2,068	-54.1	-10,169	-55.0	0	0	0.000	-8,756	-54.2	0	0.0
1-East-Zone 3	Zn Tot/Ave	-1,567	-54.1	-7,706	-55.0	0	0	0.000	-6,635	-54.2	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 1	Zn Tot/Ave	-1,027	-54.1	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
1-North-Zone 2	Zn Tot/Ave	-2,065	-54.1	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
1-North-Zone 3	Zn Tot/Ave	-208	-54.1	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
1-South-Zone 1	Zn Tot/Ave	-1,843	-54.1	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
1-South-Landmark	Zn Tot/Ave	-660	-54.1	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
1-South-Zone 3	Zn Tot/Ave	-650	-54.1	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
1-West-Zone 1	Zn Tot/Ave	-1,455	-54.1	-8,037	-55.0	0	0	0.000	-2,127	-54.2	0	0.0
1-West-Zone 2	Zn Tot/Ave	-1,331	-54.1	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
1-North-Landmark	Zn Tot/Ave	-1,027	-54.1	-5,313	-55.0	0	0	0.000	-3,145	-54.2	0	0.0
WSHP	Sys Tot/Ave	-15,695	-54.1	-78,273	-55.0	0	0	0.000	-61,407	-54.2	0	0.0
WSHP	Sys Block	-15,695	-54.1	-78,273	-55.0	0	0	0.000	-61,407	-54.2	0	0.0
10-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
10-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		WALL				WINDOW						
		Plenum Load	Plenum CLTD	Space Load	Space CLTD	Space Solar	Plenum Solar	Solar CLF	Space Conduction	Space CLTD	Plenum Conduction	Plenum CLTD
System Zone Room		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
10-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
10-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
10-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
10-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
10-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
2-East-Zone 2	Zn Tot/Ave	-2,056	-53.8	-10,169	-55.0	0	0	0.000	-8,756	-54.2	0	0.0
2-East-Zone 3	Zn Tot/Ave	-1,558	-53.8	-7,706	-55.0	0	0	0.000	-6,635	-54.2	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
2-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
2-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
2-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
2-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
2-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
3-East-Zone 2	Zn Tot/Ave	-2,056	-53.8	-10,169	-55.0	0	0	0.000	-8,756	-54.2	0	0.0
3-East-Zone 3	Zn Tot/Ave	-1,558	-53.8	-7,706	-55.0	0	0	0.000	-6,635	-54.2	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
3-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
3-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
3-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
3-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
3-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
4-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
4-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
4-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
4-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
4-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
4-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
4-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
5-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
5-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD							
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
5-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
5-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
5-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
5-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
5-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
6-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
6-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
6-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
6-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
6-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
6-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
6-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
7-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
7-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
7-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
7-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
7-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
7-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
7-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
8-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
8-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
8-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
8-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
8-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
8-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
8-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		WALL				WINDOW						
		Plenum	Plenum	Space	Space	Space	Plenum	Solar	Space	Space	Plenum	Plenum
		Load	CLTD	Load	CLTD		Solar		Conduction	CLTD	Conduction	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h	CLF	Btu/h	°F	Btu/h	°F
9-East-Zone 2	Zn Tot/Ave	-574	-53.8	-2,839	-55.0	0	0	0.000	-2,444	-54.2	0	0.0
9-East-Zone 3	Zn Tot/Ave	-435	-53.8	-2,151	-55.0	0	0	0.000	-1,852	-54.2	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	-2,053	-53.8	-10,682	-55.0	0	0	0.000	-6,323	-54.2	0	0.0
9-North-Zone 3	Zn Tot/Ave	-206	-53.8	-1,074	-55.0	0	0	0.000	-636	-54.2	0	0.0
9-South-Zone 1	Zn Tot/Ave	-1,832	-53.8	-8,069	-55.0	0	0	0.000	-12,332	-54.2	0	0.0
9-South-Zone 2	Zn Tot/Ave	-656	-53.8	-2,888	-55.0	0	0	0.000	-4,414	-54.2	0	0.0
9-South-Zone 3	Zn Tot/Ave	-646	-53.8	-2,844	-55.0	0	0	0.000	-4,347	-54.2	0	0.0
9-West-Zone 2	Zn Tot/Ave	-1,323	-53.8	-7,350	-55.0	0	0	0.000	-1,946	-54.2	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	-74,729	-53.8	-366,852	-55.0	0	0	0.000	-330,840	-54.2	0	0.0
Water Package AC-35 Ton	Sys Block	-74,729	-53.8	-366,852	-55.0	0	0	0.000	-330,840	-54.2	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum		Space		Plenum	Space		Plenum		Space	
		Sensible	Plenum	Sensible	Space	Solar	Solar		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Btu/h	Btu/h	Solar CLF	Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F				Btu/h	°F	Btu/h	°F
10-East-Zone 1	Zn Tot/Ave	-675	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 1	Zn Tot/Ave	-4,763	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 2	Zn Tot/Ave	-5,519	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 1	Zn Tot/Ave	-1,209	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 1	Zn Tot/Ave	-2,369	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum		Space		Plenum			Plenum		Space	
		Sensible	Plenum	Sensible	Space	Sensible	Space		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Solar	Solar	Solar CLF	Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	-14,535	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-30 Ton	Sys Block	-14,535	-53.9	0	-55.0	0	0	0.000	0	0.0	0	0.0
11- Pavilion	Zn Tot/Ave	-13,755	-51.8	0	-55.0	0	0	0.000	-6,193	-50.8	0	-54.1
RTU-1	Sys Tot/Ave	-13,755	-51.8	0	-55.0	0	0	0.000	-6,193	-50.8	0	-54.1
RTU-1	Sys Block	-13,755	-51.8	0	-55.0	0	0	0.000	-6,193	-50.8	0	-54.1
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
WSHP	Sys Block	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-East-Zone 2	Zn Tot/Ave	-1,326	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-East-Zone 3	Zn Tot/Ave	-568	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 3	Zn Tot/Ave	-9,428	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-Interior-Zone 4	Zn Tot/Ave	-3,293	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum	Plenum	Space	Space	Plenum	Space	Solar CLF	Plenum	Plenum	Space	Space
		Sensible		Sensible					Conduction		Conduction	
		Load	CLTD	Load	CLTD	Solar	Solar		Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
10-Interior-Zone 5	Zn Tot/Ave	-3,132	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 2	Zn Tot/Ave	-4,049	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 1	Zn Tot/Ave	-634	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 2	Zn Tot/Ave	-889	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
10-West-Zone 2	Zn Tot/Ave	-1,622	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

		ROOF				SKYLIGHT						
System Zone Room		Plenum Sensible Load	Plenum CLTD	Space Sensible Load	Space CLTD	Plenum Solar	Space Solar	Solar CLF	Plenum Conduction Load	Plenum CLTD	Space Conduction Load	Space CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		ROOF				SKYLIGHT						
		Plenum		Space					Plenum		Space	
		Sensible	Plenum	Sensible	Space	Plenum	Space		Conduction	Plenum	Conduction	Space
		Load	CLTD	Load	CLTD	Solar	Solar	Solar CLF	Load	CLTD	Load	CLTD
		Btu/h	°F	Btu/h	°F	Btu/h	Btu/h		Btu/h	°F	Btu/h	°F
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	-24,940	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0
Water Package AC-35 Ton	Sys Block	-24,940	-53.8	0	-55.0	0	0	0.000	0	0.0	0	0.0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
10-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-6,288
10-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-6,754
10-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-8,996
10-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-11,187
10-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-14,971
2-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-18,745
2-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
2-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
2-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
2-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
3-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-18,745
3-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
3-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
3-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
3-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
4-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
4-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
4-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
4-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
4-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
5-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
5-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
5-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
5-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
5-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
6-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
6-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
6-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
6-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
6-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
7-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
7-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
7-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
7-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
7-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
8-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
8-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
8-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
8-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
8-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
9-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	68.9	-196	-5,613
9-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
9-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	68.9	-1,292	-3,478
9-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-312	68.9	-185	-9,978
9-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	68.9	-367	-12,602
Cellar-East-Zone 1	Zn Tot/Ave	0	0.0	-5,852	-55.0	5	-332	68.9	-196	-6,381
Cellar-Interior Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	68.9	-740	-1,991
Cellar-North-Zone 1	Zn Tot/Ave	0	0.0	-5,643	-55.0	5	-312	68.9	-185	-6,140
Cellar-West-Zone 1	Zn Tot/Ave	0	0.0	-9,138	-55.0	10	-621	68.9	-367	-10,126
Water Package AC-30 Ton	Sys Tot/Ave	0	0.0	-20,633	-55.0	752	-46,091	68.9	-27,249	-370,380
Water Package AC-30 Ton	Sys Block	0	0.0	-20,633	-55.0	752	-46,091	68.9	-27,249	-370,381
11- Pavilion	Zn Tot/Ave	0	0.0	0	0.0	42	-2,580	66.8	-4,470	-82,035
RTU-1	Sys Tot/Ave	0	0.0	0	0.0	42	-2,580	66.8	-4,470	-82,035
RTU-1	Sys Block	0	0.0	0	0.0	42	-2,580	66.8	-4,470	-82,035
1-East-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	5	-332	69.1	-159	-18,715
1-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	69.1	-187	-21,572
1-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	69.1	-133	-16,317
1-Interior-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	20	-1,251	69.1	-600	-1,851
1-Interior-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	36	-2,186	69.1	-1,048	-3,233
1-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	69.1	-1,313	-4,051
1-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	69.1	-533	-1,646
1-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	69.1	-590	-1,820
1-North-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	2	-105	69.1	-50	-9,640
1-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	69.1	-337	-20,109
1-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	69.1	-74	-2,145
1-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	69.1	-322	-23,236
1-South-Landmark	Zn Tot/Ave	0	0.0	0	0.0	4	-262	69.1	-126	-8,350
1-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	69.1	-80	-8,087
1-West-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	10	-621	69.1	-298	-12,538
1-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	69.1	-241	-11,369
1-North-Landmark	Zn Tot/Ave	0	0.0	0	0.0	3	-185	69.1	-88	-9,758
WSHP	Sys Tot/Ave	0	0.0	0	0.0	210	-12,886	69.1	-6,177	-174,438
WSHP	Sys Block	0	0.0	0	0.0	210	-12,886	69.1	-6,177	-174,438
10-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-7,829
10-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-5,463
10-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-13,951
10-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-5,131
10-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-5,163
10-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-24,266

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
10-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
10-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,975
10-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-9,280
10-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
10-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-13,070
2-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-21,627
2-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-16,356
2-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
2-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
2-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
2-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
2-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
2-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
2-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
2-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
2-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
3-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-21,627
3-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-16,356
3-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
3-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
3-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
3-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
3-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
3-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
3-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
3-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
3-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
4-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
4-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895
4-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
4-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
4-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
4-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
4-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
4-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
4-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
4-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
4-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
5-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
5-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
5-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
5-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
5-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
5-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
5-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
5-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
5-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
5-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
5-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
6-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
6-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895
6-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
6-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
6-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
6-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
6-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
6-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
6-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
6-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
6-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
7-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
7-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895
7-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
7-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
7-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
7-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
7-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
7-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
7-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
7-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
7-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
8-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
8-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895
8-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
8-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
8-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
8-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
8-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
8-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
8-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

System Zone Room		FLOOR		PARTITION		INFILTRATION		CEILING		Envelope Total Btu/h
		Load Btu/h	CLTD °F	Load Btu/h	CLTD °F	Airflow cfm	Sensible Btu/h	Plenum Dry Bulb Temp °F	Load Btu/h	
8-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
8-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
9-East-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	6	-391	68.8	-255	-6,503
9-East-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	5	-277	68.8	-180	-4,895
9-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
9-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
9-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	20	-1,230	68.8	-802	-2,032
9-North-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	11	-702	68.8	-457	-20,217
9-North-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-154	68.8	-100	-2,170
9-South-Zone 1	Zn Tot/Ave	0	0.0	0	0.0	11	-671	68.8	-437	-23,341
9-South-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	4	-262	68.8	-171	-8,391
9-South-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	3	-166	68.8	-108	-8,112
9-West-Zone 2	Zn Tot/Ave	0	0.0	0	0.0	8	-502	68.8	-327	-11,448
Cellar-East-Zone 2	Zn Tot/Ave	0	0.0	-6,742	-55.0	6	-391	68.8	-255	-7,387
Cellar-East-Zone 3	Zn Tot/Ave	0	0.0	-5,108	-55.0	5	-277	68.8	-180	-5,566
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0.0	0	0.0	45	-2,739	68.8	-1,785	-4,523
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0.0	0	0.0	18	-1,113	68.8	-725	-1,838
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0.0	0	0.0	18	-1,097	68.8	-715	-1,813
Cellar-North-Zone 2	Zn Tot/Ave	0	0.0	-11,348	-55.0	11	-702	68.8	-457	-12,507
Cellar-North-Zone 3	Zn Tot/Ave	0	0.0	-2,188	-55.0	3	-154	68.8	-100	-2,442
Cellar-South-Zone 1	Zn Tot/Ave	0	0.0	-10,870	-55.0	11	-671	68.8	-437	-11,978
Cellar-South-Zone 2	Zn Tot/Ave	0	0.0	-3,891	-55.0	4	-262	68.8	-171	-4,323
Cellar-South-Zone 3	Zn Tot/Ave	0	0.0	-3,485	-55.0	3	-166	68.8	-108	-3,759
Cellar-West-Zone 2	Zn Tot/Ave	0	0.0	-8,455	-55.0	8	-502	68.8	-327	-9,284
Water Package AC-35 Ton	Sys Tot/Ave	0	0.0	-52,086	-55.0	1,336	-81,928	68.8	-53,386	-984,760
Water Package AC-35 Ton	Sys Block	0	0.0	-52,086	-55.0	1,336	-81,928	68.8	-53,385	-984,759

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	10-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	10-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	2-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
7-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
7-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
8-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
9-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
Water Package AC-30 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
11- Pavilion	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
RTU-1	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System Zone Room											
1-South-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
1-North-Landmark	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
WSHP	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
10-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
2-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	3-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	3-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	4-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	5-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Pln cfm	Uflr Pln Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Pln °F	Leaving Uflr Pln °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Pln Btu/h	Conduction From Adj Ceiling No Pln Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	6-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	6-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	7-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	8-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0
	9-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0	0	0	0	0

BUILDING ENVELOPE HEATING LOADS

at Coil Peak

By MG Engineering D.P.C

UNDER FLOOR		SUPPLY AIR TEMPERATURES AIRFLOWS					CONDUCTION HEAT GAIN / LOSSES				
		Supply Airflow into Uflr Plen cfm	Uflr Plen Air Leakage To Space cfm	--- Supply Temperature --- Entering Uflr Plen °F	Leaving Uflr Plen °F	Uflr Plenum Air Heat Pickup °F	Conduction From Adj Ceiling Plen Btu/h	Conduction From Adj Ceiling No Plen Btu/h	Conduction From Exp Floor Slab Btu/h	Conduction From Ext Wall Btu/h	Conduction Into Space Btu/h
System	Zone Room										
	9-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	9-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.0	0.0	0.0	0	0	0	0
	Water Package AC-35 Ton	Sys Block	0	0	0.0	0.0	0.0	0	0	0	0

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
Alternative 1															
	10-East-Zone 1		1	1	566	566	0	0	0	0	199	68	14	0	436
	10-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	1,403	0	0	0	0
	10-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	1,625	0	0	0	0
	10-North-Zone 1		1	1	531	531	0	0	0	0	356	101	10	0	932
	10-West-Zone 1		1	1	1,057	1,057	0	0	0	0	698	68	5	0	1,395
	2-East-Zone 1		1	1	566	566	0	0	0	0	0	244	14	0	1,562
	2-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	2-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	2-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	2-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	3-East-Zone 1		1	1	566	566	0	0	0	0	0	244	14	0	1,562
	3-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	3-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	3-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	3-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	4-East-Zone 1		1	1	566	566	0	0	0	0	0	68	14	0	436
	4-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	4-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	4-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	4-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	5-East-Zone 1		1	1	566	566	0	0	0	0	0	68	14	0	436
	5-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	5-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	5-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	5-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	6-East-Zone 1		1	1	566	566	0	0	0	0	0	68	14	0	436
	6-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	6-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	6-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	6-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	7-East-Zone 1		1	1	566	566	0	0	0	0	0	68	14	0	436
	7-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	7-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	7-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932
	7-West-Zone 1		1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
	8-East-Zone 1		1	1	566	566	0	0	0	0	0	68	14	0	436
	8-Interior-Zone 1		1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
	8-Interior-Zone 2		1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
	8-North-Zone 1		1	1	531	531	0	0	0	0	0	101	10	0	932

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		8-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		9-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		9-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		9-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		9-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		9-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		Cellar-East-Zone 1	1	1	566	566	1,064	0	0	0	0	0	0	0	0
		Cellar-Interior Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 2	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		Cellar-North-Zone 1	1	1	531	531	1,026	0	0	0	0	0	0	0	0
		Cellar-West-Zone 1	1	1	1,057	1,057	1,661	0	0	0	0	0	0	0	0
Water Package AC-30 Ton						78,445	3,751	0	0	0	4,280	2,490	8	0	27,121
		11- Pavilion	1	1	4,391	4,391	0	0	0	175	4,216	722	13	0	4,824
RTU-1						4,391	0	0	0	175	4,216	722	13	0	4,824
		1-East-Zone 1	1	1	566	566	0	0	0	0	0	244	14	0	1,562
		1-East-Zone 2	1	1	665	665	0	0	0	0	0	281	14	0	1,799
		1-East-Zone 3	1	1	471	471	0	0	0	0	0	213	14	0	1,363
		1-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		1-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		1-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		1-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		1-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		1-North-Landmark	1	1	314	314	0	0	0	0	0	101	10	0	932
		1-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		1-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		1-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		1-South-Landmark	1	1	446	446	0	0	0	0	0	142	21	0	522
		1-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		1-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		1-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		1-North-Zone 1	1	1	178	178	0	0	0	0	0	101	10	0	932
WSHP						21,931	0	0	0	0	0	1,973	12	0	13,816
		10-East-Zone 2	1	1	665	665	0	0	0	0	391	79	14	0	502
		10-East-Zone 3	1	1	471	471	0	0	0	0	168	59	14	0	381
		10-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	2,782	0	0	0	0
		10-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	972	0	0	0	0
		10-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	924	0	0	0	0
		10-North-Zone 2	1	1	1,195	1,195	0	0	0	0	1,195	203	10	0	1,874
		10-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		10-South-Zone 1	1	1	1,142	1,142	0	0	0	0	187	396	21	0	1,458
		10-South-Zone 2	1	1	446	446	0	0	0	0	262	142	21	0	522

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		10-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		10-West-Zone 2	1	1	854	854	0	0	0	0	479	63	5	0	1,276
		2-East-Zone 2	1	1	665	665	0	0	0	0	0	281	14	0	1,799
		2-East-Zone 3	1	1	471	471	0	0	0	0	0	213	14	0	1,363
		2-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		2-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		2-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		2-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		2-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		2-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		2-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		2-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		2-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		3-East-Zone 2	1	1	665	665	0	0	0	0	0	281	14	0	1,799
		3-East-Zone 3	1	1	471	471	0	0	0	0	0	213	14	0	1,363
		3-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		3-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		3-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		3-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		3-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		3-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		3-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		3-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		3-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		4-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		4-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		4-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		4-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		4-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		4-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		4-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		4-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		4-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		4-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		4-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		5-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		5-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		5-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		5-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		5-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		5-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		5-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		5-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		5-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		5-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		5-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		6-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		6-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		6-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		6-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		6-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		6-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		6-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		6-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		6-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		6-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		6-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		7-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		7-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		7-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		7-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		7-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		7-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		7-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		7-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		7-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		7-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		7-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		8-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		8-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		8-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		8-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		8-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		8-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		8-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		8-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		8-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		8-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		8-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		9-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		9-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		9-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		9-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		9-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		9-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		9-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		9-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		9-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		9-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		9-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		Cellar-East-Zone 2	1	1	665	665	1,226	0	0	0	0	0	0	0	0
		Cellar-East-Zone 3	1	1	471	471	929	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 5	1	1	1,868	1,868	0	0	0	0	0	0	0	0	0
		Cellar-North-Zone 2	1	1	1,195	1,195	2,063	0	0	0	0	0	0	0	0
		Cellar-North-Zone 3	1	1	261	261	398	0	0	0	0	0	0	0	0
		Cellar-South-Zone 1	1	1	1,142	1,142	1,976	0	0	0	0	0	0	0	0
		Cellar-South-Zone 2	1	1	446	446	707	0	0	0	0	0	0	0	0
		Cellar-South-Zone 3	1	1	283	283	634	0	0	0	0	0	0	0	0
		Cellar-West-Zone 2	1	1	854	854	1,537	0	0	0	0	0	0	0	0
Water Package AC-35 Ton						139,438	9,470	0	0	0	7,359	10,629	14	0	64,994

Total building Window Area: 15,814 ft²

Total building Wall Area: 126,569 ft²

Building Total Window %: 12.5%

Total building Skylight Area: 175 ft²

Total building Roof Area: 16,031 ft²

Building Total Skylight %: 1.1%

Total building Floor Area: 244,205 ft²

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
Alternative 2															
		10-East-Zone 1	1	1	566	566	0	0	0	0	199	68	14	0	436
		10-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	1,403	0	0	0	0
		10-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	1,625	0	0	0	0
		10-North-Zone 1	1	1	531	531	0	0	0	0	356	101	10	0	932
		10-West-Zone 1	1	1	1,057	1,057	0	0	0	0	698	68	5	0	1,395
		2-East-Zone 1	1	1	566	566	0	0	0	0	0	244	14	0	1,562
		2-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		2-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		2-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		2-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		3-East-Zone 1	1	1	566	566	0	0	0	0	0	244	14	0	1,562
		3-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		3-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		3-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		3-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		4-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		4-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		4-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		4-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		4-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		5-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		5-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		5-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		5-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		5-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		6-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		6-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		6-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		6-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		6-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		7-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		7-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		7-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		7-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932
		7-West-Zone 1	1	1	1,057	1,057	0	0	0	0	0	68	5	0	1,395
		8-East-Zone 1	1	1	566	566	0	0	0	0	0	68	14	0	436
		8-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0	0
		8-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0	0
		8-North-Zone 1	1	1	531	531	0	0	0	0	0	101	10	0	932

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		8-West-Zone 1	1	1	1,057	1,057	0	0	0	0	68	5	0	1,395
		9-East-Zone 1	1	1	566	566	0	0	0	0	68	14	0	436
		9-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0
		9-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0
		9-North-Zone 1	1	1	531	531	0	0	0	0	101	10	0	932
		9-West-Zone 1	1	1	1,057	1,057	0	0	0	0	68	5	0	1,395
		Cellar-East-Zone 1	1	1	566	566	1,064	0	0	0	0	0	0	0
		Cellar-Interior Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 2	1	1	2,129	2,129	0	0	0	0	0	0	0	0
		Cellar-North-Zone 1	1	1	531	531	1,026	0	0	0	0	0	0	0
		Cellar-West-Zone 1	1	1	1,057	1,057	1,661	0	0	0	0	0	0	0
Water Package AC-30 Ton					78,445	3,751	0	0	0	4,280	2,490	8	0	27,121
		11- Pavilion	1	1	4,391	4,391	0	0	175	4,216	722	13	0	4,824
RTU-1					4,391	0	0	0	175	4,216	722	13	0	4,824
		1-East-Zone 1	1	1	566	566	0	0	0	0	244	14	0	1,562
		1-East-Zone 2	1	1	665	665	0	0	0	0	281	14	0	1,799
		1-East-Zone 3	1	1	471	471	0	0	0	0	213	14	0	1,363
		1-Interior-Zone 1	1	1	2,129	2,129	0	0	0	0	0	0	0	0
		1-Interior-Zone 2	1	1	3,720	3,720	0	0	0	0	0	0	0	0
		1-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0
		1-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0
		1-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0
		1-North-Zone 1	1	1	178	178	0	0	0	0	101	10	0	932
		1-North-Zone 2	1	1	1,195	1,195	0	0	0	0	203	10	0	1,874
		1-North-Zone 3	1	1	261	261	0	0	0	0	20	10	0	188
		1-South-Zone 1	1	1	1,142	1,142	0	0	0	0	396	21	0	1,458
		1-South-Landmark	1	1	446	446	0	0	0	0	142	21	0	522
		1-South-Zone 3	1	1	283	283	0	0	0	0	140	21	0	514
		1-West-Zone 1	1	1	1,057	1,057	0	0	0	0	68	5	0	1,395
		1-West-Zone 2	1	1	854	854	0	0	0	0	63	5	0	1,276
		1-North-Landmark	1	1	314	314	0	0	0	0	101	10	0	932
WSHP					21,931	0	0	0	0	0	1,973	12	0	13,816
		10-East-Zone 2	1	1	665	665	0	0	0	391	79	14	0	502
		10-East-Zone 3	1	1	471	471	0	0	0	168	59	14	0	381
		10-Interior-Zone 3	1	1	4,661	4,661	0	0	0	2,782	0	0	0	0
		10-Interior-Zone 4	1	1	1,894	1,894	0	0	0	972	0	0	0	0
		10-Interior-Zone 5	1	1	2,094	2,094	0	0	0	924	0	0	0	0
		10-North-Zone 2	1	1	1,195	1,195	0	0	0	1,195	203	10	0	1,874
		10-North-Zone 3	1	1	261	261	0	0	0	0	20	10	0	188
		10-South-Zone 1	1	1	1,142	1,142	0	0	0	187	396	21	0	1,458
		10-South-Zone 2	1	1	446	446	0	0	0	262	142	21	0	522

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		10-South-Zone 3	1	1	283	283	0	0	0	0	140	21	0	514
		10-West-Zone 2	1	1	854	854	0	0	0	479	63	5	0	1,276
		2-East-Zone 2	1	1	665	665	0	0	0	0	281	14	0	1,799
		2-East-Zone 3	1	1	471	471	0	0	0	0	213	14	0	1,363
		2-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0
		2-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0
		2-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0
		2-North-Zone 2	1	1	1,195	1,195	0	0	0	0	203	10	0	1,874
		2-North-Zone 3	1	1	261	261	0	0	0	0	20	10	0	188
		2-South-Zone 1	1	1	1,142	1,142	0	0	0	0	396	21	0	1,458
		2-South-Zone 2	1	1	446	446	0	0	0	0	142	21	0	522
		2-South-Zone 3	1	1	283	283	0	0	0	0	140	21	0	514
		2-West-Zone 2	1	1	854	854	0	0	0	0	63	5	0	1,276
		3-East-Zone 2	1	1	665	665	0	0	0	0	281	14	0	1,799
		3-East-Zone 3	1	1	471	471	0	0	0	0	213	14	0	1,363
		3-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0
		3-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0
		3-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0
		3-North-Zone 2	1	1	1,195	1,195	0	0	0	0	203	10	0	1,874
		3-North-Zone 3	1	1	261	261	0	0	0	0	20	10	0	188
		3-South-Zone 1	1	1	1,142	1,142	0	0	0	0	396	21	0	1,458
		3-South-Zone 2	1	1	446	446	0	0	0	0	142	21	0	522
		3-South-Zone 3	1	1	283	283	0	0	0	0	140	21	0	514
		3-West-Zone 2	1	1	854	854	0	0	0	0	63	5	0	1,276
		4-East-Zone 2	1	1	665	665	0	0	0	0	79	14	0	502
		4-East-Zone 3	1	1	471	471	0	0	0	0	59	14	0	381
		4-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0
		4-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0
		4-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0
		4-North-Zone 2	1	1	1,195	1,195	0	0	0	0	203	10	0	1,874
		4-North-Zone 3	1	1	261	261	0	0	0	0	20	10	0	188
		4-South-Zone 1	1	1	1,142	1,142	0	0	0	0	396	21	0	1,458
		4-South-Zone 2	1	1	446	446	0	0	0	0	142	21	0	522
		4-South-Zone 3	1	1	283	283	0	0	0	0	140	21	0	514
		4-West-Zone 2	1	1	854	854	0	0	0	0	63	5	0	1,276
		5-East-Zone 2	1	1	665	665	0	0	0	0	79	14	0	502
		5-East-Zone 3	1	1	471	471	0	0	0	0	59	14	0	381
		5-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0
		5-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0
		5-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0
		5-North-Zone 2	1	1	1,195	1,195	0	0	0	0	203	10	0	1,874

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Number of Duplicate Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		5-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		5-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		5-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		5-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		5-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		6-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		6-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		6-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		6-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		6-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		6-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		6-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		6-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		6-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		6-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		6-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		7-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		7-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		7-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		7-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		7-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		7-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		7-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		7-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		7-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		7-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		7-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		8-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		8-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		8-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		8-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		8-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		8-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		8-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		8-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		8-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		8-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		8-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		9-East-Zone 2	1	1	665	665	0	0	0	0	0	79	14	0	502
		9-East-Zone 3	1	1	471	471	0	0	0	0	0	59	14	0	381
		9-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0

BUILDING AREAS

By MG Engineering D.P.C

Sys	Zon	Room	Number of Duplicate Floors	Rooms	Floor Area/ Duplicate Room ft²	Total Floor Area ft²	Partition Area ft²	Int Door Area ft²	Exposed Floor Area ft²	Skylight Area ft²	Net Roof Area ft²	Window Area ft²	Window/ Wall %	Ext Door Area ft²	Net Wall Area ft²
		9-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		9-Interior-Zone 5	1	1	2,094	2,094	0	0	0	0	0	0	0	0	0
		9-North-Zone 2	1	1	1,195	1,195	0	0	0	0	0	203	10	0	1,874
		9-North-Zone 3	1	1	261	261	0	0	0	0	0	20	10	0	188
		9-South-Zone 1	1	1	1,142	1,142	0	0	0	0	0	396	21	0	1,458
		9-South-Zone 2	1	1	446	446	0	0	0	0	0	142	21	0	522
		9-South-Zone 3	1	1	283	283	0	0	0	0	0	140	21	0	514
		9-West-Zone 2	1	1	854	854	0	0	0	0	0	63	5	0	1,276
		Cellar-East-Zone 2	1	1	665	665	1,226	0	0	0	0	0	0	0	0
		Cellar-East-Zone 3	1	1	471	471	929	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 3	1	1	4,661	4,661	0	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 4	1	1	1,894	1,894	0	0	0	0	0	0	0	0	0
		Cellar-Interior-Zone 5	1	1	1,868	1,868	0	0	0	0	0	0	0	0	0
		Cellar-North-Zone 2	1	1	1,195	1,195	2,063	0	0	0	0	0	0	0	0
		Cellar-North-Zone 3	1	1	261	261	398	0	0	0	0	0	0	0	0
		Cellar-South-Zone 1	1	1	1,142	1,142	1,976	0	0	0	0	0	0	0	0
		Cellar-South-Zone 2	1	1	446	446	707	0	0	0	0	0	0	0	0
		Cellar-South-Zone 3	1	1	283	283	634	0	0	0	0	0	0	0	0
		Cellar-West-Zone 2	1	1	854	854	1,537	0	0	0	0	0	0	0	0
		Water Package AC-35 Ton				139,438	9,470	0	0	0	7,359	10,629	14	0	64,994

Total building Window Area: 15,814 ft²

Total building Skylight Area: 175 ft²

Total building Wall Area: 126,569 ft²

Total building Roof Area: 16,031 ft²

Total building Floor Area: 244,205 ft²

Building Total Window %: 12.5%

Building Total Skylight %: 1.1%

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
Alternative 1													
10-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	31.9	6.7
10-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.317	25.1	5.6
10-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.317	21.1	4.6
10-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	53.2	11.2
10-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	46.1	9.8
2-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	57.3	11.5
2-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
2-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
3-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	57.3	11.5
3-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
3-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
4-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1
4-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
4-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
5-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1
5-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
5-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
6-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1
6-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
6-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
7-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1

Project Name: 8981-02-122 5th
Dataset Name: 898102-122 5TH.TRC

TRACE® 700 v6.3.5 calculated at 11:35 AM on 11/09/2022
Building U-Factors Report Page 1 of 12

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
7-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
7-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
8-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1
8-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
8-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
9-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.6	5.1
9-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	41.3	8.3
9-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
Cellar-East-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	36.8	7.4
Cellar-Interior Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-North-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	37.5	7.5
Cellar-West-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	33.0	6.6
Water Package AC-30 Ton - System	0.100	0.000	0.000	0.000	0.000	0.065	1.050	1.064	0.000	0.180	0.317	20.4	4.1
11- Pavilion - Zone	0.000	0.000	0.000	0.500	0.503	0.024	0.420	0.422	0.000	0.063	0.317	47.9	10.4
RTU-1 - System	0.000	0.000	0.000	0.500	0.503	0.024	0.420	0.422	0.000	0.063	0.317	47.9	10.4
1-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	57.3	11.5
1-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	56.4	11.3
1-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	59.4	11.9
1-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-North-Landmark - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.900	0.910	0.000	0.180	0.317	60.6	12.1
1-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
1-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
1-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
1-South-Landmark - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.900	0.910	0.000	0.180	0.317	32.0	6.4
1-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
1-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	34.3	6.9
1-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
1-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	96.6	19.3
WSHP - System	0.000	0.000	0.000	0.000	0.000	0.000	0.960	0.973	0.000	0.163	0.317	23.4	4.7
10-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	35.8	7.7
10-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	32.5	6.8
10-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.317	24.0	5.3
10-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.317	22.5	5.0
10-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.317	21.2	4.6
10-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	56.1	12.1
10-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
10-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	36.6	7.5
10-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.163	1.050	1.064	0.000	0.180	0.317	42.4	9.0
10-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
10-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.024	0.420	0.422	0.000	0.063	0.317	47.1	9.9
2-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	56.4	11.3
2-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	59.4	11.9
2-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
2-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
2-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
2-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
2-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
2-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
3-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	56.4	11.3
3-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	59.4	11.9

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft²·°F					Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
3-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
3-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
3-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
3-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
3-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
3-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
4-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1
4-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
4-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
4-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
4-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
4-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
4-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
4-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
5-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1
5-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
5-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
5-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
5-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
5-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
5-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
5-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
6-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft²·°F					Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
6-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
6-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
6-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
6-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
6-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
6-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
6-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
7-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1
7-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
7-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
7-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
7-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
7-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
7-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
7-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
8-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1
8-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
8-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
8-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
8-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
8-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
8-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
8-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft²·°F					Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
9-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	25.4	5.1
9-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	26.2	5.2
9-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	38.3	7.7
9-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	24.8	5.0
9-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	33.7	6.7
9-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	1.050	1.064	0.000	0.180	0.317	32.0	6.4
9-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	42.2	8.4
9-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.422	0.000	0.063	0.317	37.1	7.4
Cellar-East-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	36.4	7.3
Cellar-East-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	38.0	7.6
Cellar-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-North-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	34.9	7.0
Cellar-North-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	32.3	6.5
Cellar-South-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	35.0	7.0
Cellar-South-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	33.2	6.6
Cellar-South-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	41.3	8.3
Cellar-West-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	35.8	7.2
Water Package AC-35 Ton - System	0.100	0.000	0.000	0.000	0.000	0.066	0.931	0.943	0.000	0.148	0.317	22.5	4.6

Overall U-Factors

Roof	0.059 Btu/h·ft²·°F
Wall	0.251 Btu/h·ft²·°F
Building	0.229 Btu/h·ft²·°F

Overall Thermal Transfer Values

Roof (OTTVr)	3.47 Btu/hr·ft²
Wall (OTTVw)	14.37 Btu/hr·ft²

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
Alternative 2													
10-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	31.9	6.7
10-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.317	25.1	5.6
10-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.317	21.1	4.6
10-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	53.2	11.2
10-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	46.1	9.8
2-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	57.3	11.5
2-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
2-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
3-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	57.3	11.5
3-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
3-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
4-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1
4-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
4-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
5-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1
5-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
5-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
6-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1
6-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
6-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
7-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1

Project Name: 8981-02-122 5th
Dataset Name: 898102-122 5TH.TRC

TRACE® 700 v6.3.5 calculated at 11:35 AM on 11/09/2022
Building U-Factors Report Page 7 of 12

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
7-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
7-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
8-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1
8-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
8-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
9-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.6	5.1
9-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	41.3	8.3
9-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
Cellar-East-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	36.8	7.4
Cellar-Interior Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-North-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	37.5	7.5
Cellar-West-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	33.0	6.6
Water Package AC-30 Ton - System	0.100	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	20.4	4.1
11- Pavilion - Zone	0.000	0.000	0.000	0.690	0.696	0.063	0.570	0.574	0.000	0.124	0.317	25.3	5.4
RTU-1 - System	0.000	0.000	0.000	0.690	0.696	0.063	0.570	0.574	0.000	0.124	0.317	25.3	5.4
1-East-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	57.3	11.5
1-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	56.4	11.3
1-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	59.4	11.9
1-Interior-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
1-North-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	96.6	19.3
1-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room	Room
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling	Mass lb/ft ²	Capacitance Btu/lb·°F
1-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
1-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
1-South-Landmark - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
1-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
1-West-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	34.3	6.9
1-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
1-North-Landmark - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	60.6	12.1
WSHP - System	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	22.8	4.6
10-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	35.8	7.7
10-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	32.5	6.8
10-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.317	24.0	5.3
10-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.317	22.5	5.0
10-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0.317	13.9	2.8
10-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	56.1	12.1
10-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
10-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	36.6	7.5
10-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	42.4	9.0
10-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
10-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	28.8	6.2
2-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	56.4	11.3
2-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	59.4	11.9
2-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
2-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
2-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
2-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
2-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
2-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
2-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
3-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	56.4	11.3
3-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	59.4	11.9

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room Mass lb/ft ²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
3-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
3-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
3-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
3-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
3-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
3-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
3-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
4-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1
4-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
4-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
4-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
4-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
4-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
4-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
4-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
4-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
5-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1
5-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
5-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
5-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
5-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
5-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
5-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
5-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
5-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
6-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft ² ·°F					Room Mass lb/ft ²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
6-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
6-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
6-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
6-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
6-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
6-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
6-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
6-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
7-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1
7-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
7-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
7-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
7-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
7-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
7-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
7-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
7-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
8-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1
8-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
8-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
8-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
8-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
8-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
8-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
8-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
8-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1

BUILDING U-FACTORS

By MG Engineering D.P.C

Description	ROOM U-FACTORS						Btu/h·ft²·°F					Room Mass lb/ft²	Room Capacitance Btu/lb·°F
	Partition	Internal Door	Exposed Floor	Summer Skylight	Winter Skylight	Roof	Summer Window	Winter Window	External Door	Wall	Ceiling		
9-East-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	25.4	5.1
9-East-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	26.2	5.2
9-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
9-North-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	38.3	7.7
9-North-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	20.5	4.3
9-South-Zone 1 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	33.7	6.7
9-South-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	32.0	6.4
9-South-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	31.3	6.8
9-West-Zone 2 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.570	0.574	0.000	0.124	0.317	28.1	6.1
Cellar-East-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	36.4	7.3
Cellar-East-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	38.0	7.6
Cellar-Interior-Zone 3 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 4 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-Interior-Zone 5 - Zone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	13.3	2.7
Cellar-North-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	34.9	7.0
Cellar-North-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	32.3	6.5
Cellar-South-Zone 1 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	35.0	7.0
Cellar-South-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	33.2	6.6
Cellar-South-Zone 3 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	41.3	8.3
Cellar-West-Zone 2 - Zone	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.317	35.8	7.2
Water Package AC-35 Ton - System	0.100	0.000	0.000	0.000	0.000	0.063	0.570	0.574	0.000	0.124	0.317	21.6	4.4

Overall U-Factors

Roof	0.070 Btu/h·ft²·°F
Wall	0.180 Btu/h·ft²·°F
Building	0.167 Btu/h·ft²·°F

Overall Thermal Transfer Values

Roof (OTTVr)	5.08 Btu/hr·ft²
Wall (OTTVw)	12.96 Btu/hr·ft²

SYSTEM SUMMARY

DESIGN AIRFLOW QUANTITIES

By MG Engineering D.P.C

		MAIN SYSTEM					Auxiliary System	Room
		Outside Airflow cfm	Cooling Airflow cfm	Heating Airflow cfm	Return Airflow cfm	Exhaust Airflow cfm	Supply Airflow cfm	Exhaust Airflow cfm
System Description	System Type							
Alternative 1								
Water Package AC-30 Ton	Water Source Heat Pump	7,449	40,179	40,179	48,380	8,201	0	0
RTU-1	Variable Temperature Constant Volume	5,354	8,198	8,198	8,240	5,396	0	0
WSHP	Water Source Heat Pump	6,897	24,945	24,945	32,052	7,107	0	0
Water Package AC-35 Ton	Water Source Heat Pump	13,242	105,269	105,269	119,847	14,578	0	0
Totals		32,942	178,591	178,591	208,519	35,282	0	0
Alternative 2								
Water Package AC-30 Ton	System 7 - 2010 - VAV Reheat Chill Water & Hot Water	31,013	31,013	12,838	31,765	31,765	0	0
RTU-1	System 7 - 2010 - VAV Reheat Chill Water & Hot Water	5,753	13,563	5,753	13,605	5,795	0	0
WSHP	System 7 - 2010 - VAV Reheat Chill Water & Hot Water	14,334	14,334	9,395	14,545	14,545	0	0
Water Package AC-35 Ton	System 7 - 2010 - VAV Reheat Chill Water & Hot Water	79,286	79,286	33,026	80,622	80,622	0	0
Totals		130,386	138,196	61,012	140,537	132,726	0	0

Note: Airflows on this report are not additive because they are each taken at the time of their respective peaks. To view the balanced system design airflows, see the appropriate Checksums report (Airflows section).

SYSTEM SUMMARY

DESIGN COOLING CAPACITIES

By MG Engineering D.P.C

Alternative 1

Building Airside Systems and Plant Capacities

Plant	System	Peak Plant Loads								Block Plant Loads								
		Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1 Desic Cond ton	Stg 2 Desic Cond ton	Base Utility ton	Peak Total ton	Time Of Peak mo/hr	Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1 Desic Cond ton	Stg 2 Desic Cond ton	Base Utility ton	Block Total ton
ACs		376.1	0.0	0.0	0.0	0.0	0.0	0.0	376.1	8/14	233.1	0.0	0.0	0.0	0.0	0.0	0.0	233.1
	Water Package AC-30 Ton	121.4	0.0	0.0	0.0	0.0	0.0	0.0	121.4	8/14	67.6	0.0	0.0	0.0	0.0	0.0	0.0	67.6
	Water Package AC-35 Ton	254.7	0.0	0.0	0.0	0.0	0.0	0.0	254.7	8/14	165.5	0.0	0.0	0.0	0.0	0.0	0.0	165.5
RTU		30.8	0.0	1.1	0.0	0.0	0.0	0.0	31.9	8/13	28.9	0.0	1.1	0.0	0.0	0.0	0.0	30.0
	RTU-1	30.8	0.0	1.1	0.0	0.0	0.0	0.0	31.9	8/13	28.9	0.0	1.1	0.0	0.0	0.0	0.0	30.0
AC-1FL		80.9	0.0	0.0	0.0	0.0	0.0	0.0	80.9	8/14	46.5	0.0	0.0	0.0	0.0	0.0	0.0	46.5
	WSHP	80.9	0.0	0.0	0.0	0.0	0.0	0.0	80.9	8/14	46.5	0.0	0.0	0.0	0.0	0.0	0.0	46.5
Building totals		487.9	0.0	1.1	0.0	0.0	0.0	0.0	489.0		308.4	0.0	1.1	0.0	0.0	0.0	0.0	309.5

Building peak load is 489.0 tons.

Building maximum block load of 309.2 tons occurs in August at hour 14 based on system simulation.

Alternative 2

Building Airside Systems and Plant Capacities

Plant	System	Peak Plant Loads								Block Plant Loads								
		Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1 Desic Cond ton	Stg 2 Desic Cond ton	Base Utility ton	Peak Total ton	Time Of Peak mo/hr	Main Coil ton	Aux Coil ton	Opt Vent Coil ton	Misc Load ton	Stg 1 Desic Cond ton	Stg 2 Desic Cond ton	Base Utility ton	Block Total ton
ACs		835.0	0.0	0.0	0.0	0.0	0.0	0.0	835.0	8/14	433.1	0.0	0.0	0.0	0.0	0.0	0.0	433.1
	Water Package AC-30 Ton	235.5	0.0	0.0	0.0	0.0	0.0	0.0	235.5	8/14	118.3	0.0	0.0	0.0	0.0	0.0	0.0	118.3
	Water Package AC-35 Ton	599.4	0.0	0.0	0.0	0.0	0.0	0.0	599.4	8/14	314.8	0.0	0.0	0.0	0.0	0.0	0.0	314.8
RTU		46.8	0.0	1.6	0.0	0.0	0.0	0.0	48.3	8/14	34.5	0.0	1.6	0.0	0.0	0.0	0.0	36.1
	RTU-1	46.8	0.0	1.6	0.0	0.0	0.0	0.0	48.3	8/14	34.5	0.0	1.6	0.0	0.0	0.0	0.0	36.1
AC-1FL		129.8	0.0	0.0	0.0	0.0	0.0	0.0	129.8	8/14	72.6	0.0	0.0	0.0	0.0	0.0	0.0	72.6
	WSHP	129.8	0.0	0.0	0.0	0.0	0.0	0.0	129.8	8/14	72.6	0.0	0.0	0.0	0.0	0.0	0.0	72.6
Building totals		1,011.5	0.0	1.6	0.0	0.0	0.0	0.0	1,013.1		540.2	0.0	1.6	0.0	0.0	0.0	0.0	541.8

Building peak load is 1,013.1 tons.

Building maximum block load of 541.8 tons occurs in August at hour 14 based on system simulation.

SYSTEM SUMMARY

DESIGN HEATING CAPACITIES

By MG Engineering D.P.C

Alternative 1

System Coil Capacities

System Description	System Type	Main System Btu/h	Aux System Btu/h	Preheat Btu/h	Reheat Btu/h	Humid. Btu/h	Optional Vent Btu/h	Stg 1 Desic Regen Btu/h	Stg 2 Desic Regen Btu/h	Stg 1 Frost Prevention Btu/h	Stg 2 Frost Prevention Btu/h	Heating Totals Btu/h
Water Package AC-30 Ton	Water Source Heat Pump	-817,918	0	0	0	0	0	0	0	0	0	-817,918
RTU-1	Variable Temperature Constant Volume	-38,597	0	0	0	0	0	0	0	0	0	-38,597
WSHP	Water Source Heat Pump	-535,462	0	0	0	0	0	0	0	0	0	-535,462
Water Package AC-35 Ton	Water Source Heat Pump	-1,818,918	0	0	0	0	0	0	0	0	0	-1,818,918
Totals		-3,210,895	0	0	0	0	0	0	0	0	0	-3,210,895

Building Plant Capacities

Plant System		Peak Loads												
		Main Coil MBh	Preheat Coil MBh	Reheat Coil MBh	Humid. Coil MBh	Aux Coil MBh	Opt Vent Coil MBh	Misc Load MBh	Stg 1	Stg 2	Stg 1	Stg 2	Base Utility MBh	Absorption Load MBh
									Desic.	Desic.	Frost	Frost		
									Regen. MBh	Regen. MBh	Prev. MBh	Prev. MBh		
DHW		0	0	0	0	0	0	0	0	0	0	0	71	0
Heating plant - 005		3,211	0	0	0	0	0	0	0	0	0	0	0	0
	Water Package AC-30 Ton	818	0	0	0	0	0	0	0	0	0	0	0	0
	RTU-1	39	0	0	0	0	0	0	0	0	0	0	0	0
	WSHP	535	0	0	0	0	0	0	0	0	0	0	0	0
	Water Package AC-35 Ton	1,819	0	0	0	0	0	0	0	0	0	0	0	0

Building peak load is 3,282.2 MBh.

Alternative 2

System Coil Capacities

System Description	System Type	Main System Btu/h	Aux System Btu/h	Preheat Btu/h	Reheat Btu/h	Humid. Btu/h	Optional Vent Btu/h	Stg 1 Desic Regen Btu/h	Stg 2 Desic Regen Btu/h	Stg 1 Frost Prevention Btu/h	Stg 2 Frost Prevention Btu/h	Heating Totals Btu/h
Water Package AC-30 Ton	System 7 - 2010 - VAV Reheat Chill Water & Hot	-733,409	0	-1,591,026	-325,255	0	0	0	0	0	0	-2,324,435

System Coil Capacities

System Description	System Type	Main	Aux	Preheat	Reheat	Humid.	Optional	Stg 1	Stg 2	Stg 1	Stg 2	Heating
		System	System					Desic	Desic	Frost	Frost	
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Regen	Regen	Prevention	Prevention	Totals
								Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
RTU-1	System 7 - 2010 - VAV Reheat Chill Water & Hot	-223,004	0	0	-151,990	0	0	0	0	0	0	-223,004
WSHP	System 7 - 2010 - VAV Reheat Chill Water & Hot	-519,253	0	-583,137	-320,824	0	0	0	0	0	0	-1,102,390
Water Package AC-35 Ton	System 7 - 2010 - VAV Reheat Chill Water & Hot	-1,904,121	0	-4,161,099	-797,758	0	0	0	0	0	0	-6,065,220
Totals		-3,379,786	0	-6,335,262	-1,595,826	0	0	0	0	0	0	-9,715,048

Building Plant Capacities

		Peak Loads											
Plant	System	Main	Preheat	Reheat	Humid.	Aux	Opt Vent	Misc	Stg 1	Stg 2	Stg 1	Stg 2	Base
		Coil	Coil	Coil	Coil	Coil	Coil	Load	Desic.	Desic.	Frost	Frost	
		MBh	MBh	MBh	MBh	MBh	MBh	MBh	Regen.	Regen.	Prev.	Prev.	Utility
									MBh	MBh	MBh	MBh	MBh
DHW		0	0	0	0	0	0	0	0	0	0	0	71
Heating plant - 005		3,380	6,335	0	0	0	0	0	0	0	0	0	0
	Water Package AC-30 Ton	733	1,591	0	0	0	0	0	0	0	0	0	0
	RTU-1	223	0	0	0	0	0	0	0	0	0	0	0
	WSHP	519	583	0	0	0	0	0	0	0	0	0	0
	Water Package AC-35 Ton	1,904	4,161	0	0	0	0	0	0	0	0	0	0

Building peak load is 9,786.4 MBh.

MONTHLY UTILITY COSTS

By MG Engineering D.P.C

Utility	Jan	Feb	Mar	Apr	----- May	Monthly Utility Costs June	July	----- Aug	Sept	Oct	Nov	Dec	Total
Alternative 1													
Electric													
On-Pk Cons. (\$)	0	0	0	0	0	103,280	101,533	116,203	92,150	0	0	0	413,166
Off-Pk Cons. (\$)	16	16	16	16	16	0	0	0	0	16	16	16	126
Total (\$):	16	16	16	16	16	103,280	101,533	116,203	92,150	16	16	16	413,292
Gas													
On-Pk Cons. (\$)	8,560	6,804	8,315	2,338	844	22	22	22	149	1,436	3,258	9,332	41,102
Monthly Total (\$):	8,575	6,820	8,331	2,353	860	103,302	101,555	116,225	92,299	1,452	3,274	9,348	454,393

Building Area = 244,205 ft²

Utility Cost Per Area = 1.86 \$/ft²

Alternative 2 - 0° Rotation

Electric													
On-Pk Cons. (\$)	0	0	0	0	0	194,767	211,078	262,635	167,832	0	0	0	836,312
Off-Pk Cons. (\$)	16	16	16	16	16	0	0	0	0	16	16	16	126
Total (\$):	16	16	16	16	16	194,767	211,078	262,635	167,832	16	16	16	836,438
Gas													
On-Pk Cons. (\$)	11,548	8,838	11,723	2,621	1,194	348	303	344	525	1,984	3,802	12,470	55,700
Monthly Total (\$):	11,563	8,854	11,739	2,636	1,210	195,115	211,380	262,979	168,357	2,000	3,818	12,486	892,137

Building Area = 244,205 ft²

Utility Cost Per Area = 3.65 \$/ft²

MONTHLY UTILITY COSTS

By MG Engineering D.P.C

Utility	Jan	Feb	Mar	Apr	----- May	Monthly Utility Costs June	July	----- Aug	Sept	Oct	Nov	Dec	Total
Alternative 2 - 90° Rotation													
Electric													
On-Pk Cons. (\$)	0	0	0	0	0	200,317	216,517	266,412	167,955	0	0	0	851,201
Off-Pk Cons. (\$)	16	16	16	16	16	0	0	0	0	16	16	16	126
Total (\$):	16	16	16	16	16	200,317	216,517	266,412	167,955	16	16	16	851,327
Gas													
On-Pk Cons. (\$)	12,088	9,215	12,085	2,696	1,181	376	310	356	575	2,069	3,983	12,997	57,932
Monthly Total (\$):	12,104	9,230	12,101	2,712	1,197	200,693	216,827	266,769	168,530	2,085	3,999	13,013	909,259
Building Area =	244,205 ft²												
Utility Cost Per Area =	3.72 \$/ft²												
Alternative 2 - 180° Rotation													
Electric													
On-Pk Cons. (\$)	0	0	0	0	0	193,213	206,797	255,275	162,988	0	0	0	818,273
Off-Pk Cons. (\$)	16	16	16	16	16	0	0	0	0	16	16	16	126
Total (\$):	16	16	16	16	16	193,213	206,797	255,275	162,988	16	16	16	818,399
Gas													
On-Pk Cons. (\$)	11,551	8,897	11,666	2,619	1,163	325	288	311	546	2,029	3,853	12,360	55,608
Monthly Total (\$):	11,566	8,913	11,682	2,635	1,179	193,538	207,085	255,586	163,534	2,045	3,869	12,376	874,007
Building Area =	244,205 ft²												
Utility Cost Per Area =	3.58 \$/ft²												

MONTHLY UTILITY COSTS

By MG Engineering D.P.C

Utility	Jan	Feb	Mar	Apr	----- May	----- Monthly Utility Costs ----- June	July	Aug	Sept	Oct	Nov	Dec	Total
Alternative 2 - 270° Rotation													
Electric													
On-Pk Cons. (\$)	0	0	0	0	0	197,852	213,187	261,331	163,532	0	0	0	835,902
Off-Pk Cons. (\$)	16	16	16	16	16	0	0	0	0	16	16	16	126
Total (\$):	16	16	16	16	16	197,852	213,187	261,331	163,532	16	16	16	836,028
Gas													
On-Pk Cons. (\$)	12,249	9,403	12,178	2,673	1,124	306	278	307	538	2,149	4,115	13,137	58,456
Monthly Total (\$):	12,264	9,419	12,194	2,689	1,140	198,157	213,465	261,637	164,070	2,165	4,131	13,153	894,484

Building Area = 244,205 ft²

Utility Cost Per Area = 3.66 \$/ft²

ENERGY CONSUMPTION SUMMARY

By MG Engineering D.P.C

	Elect Cons. (kWh)	Gas Cons. (kBtu)	Water Cons. (1000 gals)	% of Total Building Energy	Total Building Energy (kBtu/yr)	Total Source Energy* (kBtu/yr)
Alternative 1						
Primary heating						
Primary heating	48,101	3,432,684		53.9 %	3,596,854	4,105,911
Other Htg Accessories	16,721			0.9 %	57,070	171,227
Heating Subtotal	64,823	3,432,684		54.7 %	3,653,924	4,277,139
Primary cooling						
Cooling Compressor	126,706			6.5 %	432,446	1,297,468
Tower/Cond Fans	7,723		1,013	0.4 %	26,358	79,081
Condenser Pump	3,362			0.2 %	11,476	34,431
Other Clg Accessories	1,104			0.1 %	3,767	11,301
Cooling Subtotal....	138,894		1,013	7.1 %	474,046	1,422,281
Auxiliary						
Supply Fans	112,585			5.8 %	384,253	1,152,875
Pumps				0.0 %	0	0
Stand-alone Base Utilities	50,686			2.6 %	172,990	519,023
Aux Subtotal....	163,271			8.3 %	557,243	1,671,897
Lighting						
Lighting	461,567			23.6 %	1,575,328	4,726,458
Receptacle						
Receptacles	122,658			6.3 %	418,632	1,256,020
Cogeneration						
Cogeneration				0.0 %	0	0
Totals						
Totals**	951,213	3,432,684	1,013	100.0 %	6,679,174	13,353,795

* Note: Resource Utilization factors are included in the Total Source Energy value .

** Note: This report can display a maximum of 7 utilities. If additional utilities are used, they will be included in the total.

ENERGY CONSUMPTION SUMMARY

By MG Engineering D.P.C

	Elect Cons. (kWh)	Gas Cons. (kBtu)	Water Cons. (1000 gals)		% of Total Building Energy	Total Building Energy (kBtu/yr)	Total Source Energy* (kBtu/yr)
Alternative 2							
Primary heating							
Primary heating	48,102	4,659,181			49.1 %	4,823,351	5,396,961
Other Htg Accessories	7,103		19,184		0.3 %	24,243	72,735
Heating Subtotal	55,205	4,659,181	19,184		49.4 %	4,847,593	5,469,696
Primary cooling							
Cooling Compressor	293,202				10.2 %	1,000,697	3,002,391
Tower/Cond Fans	91,506		1,252		3.2 %	312,311	937,028
Condenser Pump	20,570				0.7 %	70,207	210,641
Other Clg Accessories	8,914				0.3 %	30,423	91,280
Cooling Subtotal....	414,192		1,252		14.4 %	1,413,638	4,241,340
Auxiliary							
Supply Fans	208,833				7.3 %	712,747	2,138,454
Pumps	76,431				2.7 %	260,859	782,656
Stand-alone Base Utilities	50,686				1.8 %	172,990	519,023
Aux Subtotal....	335,950				11.7 %	1,146,596	3,440,132
Lighting							
Lighting	583,506				20.3 %	1,991,507	5,975,119
Receptacle							
Receptacles	122,658				4.3 %	418,632	1,256,020
Cogeneration							
Cogeneration					0.0 %	0	0
Totals							
Totals**	1,511,511	4,659,181	20,436		100.0 %	9,817,967	20,382,306

* Note: Resource Utilization factors are included in the Total Source Energy value .

** Note: This report can display a maximum of 7 utilities. If additional utilities are used, they will be included in the total.

Energy Cost Budget / PRM Summary

By MG Engineering D.P.C

Project Name: 8981-02-122 5th	Date: November 09, 2022
City: 122 5th Avenue	Weather Data: New York (LaGuardia), New York

Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-1 8981-02-122 5th-Propose			Alt-2 Baseline- Appendix CA- NY		
		Energy 10^6 Btu/yr	Proposed / Base %	Peak kBtuh	Energy 10^6 Btu/yr	Proposed / Base %	Peak kBtuh
Lighting - Conditioned	Electricity	1,575.3	24	542	1,991.5	126	685
Space Heating	Electricity	221.2	3	84	188.1	85	75
	Gas	3,432.7	51	3,180	4,762.0	139	3,757
Space Cooling	Electricity	436.2	7	399	1,025.9	235	1,305
Pumps	Electricity	11.5	0	11	333.4	2,906	276
Heat Rejection	Electricity	26.4	0	18	312.1	1,184	269
Fans - Conditioned	Electricity	384.3	6	124	705.4	184	407
Receptacles - Conditioned	Electricity	418.6	6	159	418.6	100	159
Stand-alone Base Utilities	Electricity	173.0	3	70	173.0	100	70
Total Building Consumption		6,679.2			9,910.1		

		* Alt-1 8981-02-122 5th-Propose	Alt-2 Baseline- Appendix CA- NY
Total	Number of hours heating load not met	31	57
	Number of hours cooling load not met	0	0

		* Alt-1 8981-02-122 5th-Propose		Alt-2 Baseline- Appendix CA- NY	
		Energy 10^6 Btu/yr	Cost/yr \$/yr	Energy 10^6 Btu/yr	Cost/yr \$/yr
Electricity		3,246.5	413,292	5,148.1	835,548
Gas		3,432.7	41,102	4,762.0	56,924
Total		6,679	454,393	9,910	892,472

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 1 8981-02-122 5th-Proposed

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Lights													
Electric (kWh)	38,512.0	34,830.6	41,340.1	36,813.5	39,926.1	39,641.6	37,098.0	41,340.1	36,813.5	39,926.1	38,227.6	37,098.0	461,567.1
Peak (kW)	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0	159.0
Misc. Ld													
Electric (kWh)	10,202.0	9,229.0	11,085.8	9,730.4	10,643.9	10,614.2	9,760.1	11,085.8	9,730.4	10,643.9	10,172.3	9,760.1	122,658.0
Peak (kW)	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
Cooling Coil Condensate													
Recoverable Water (1000gal)	0.1	0.2	0.1	1.6	6.7	11.4	14.1	22.7	10.7	3.2	1.2	0.1	72.0
Peak (1000gal/Hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Bsu 1: Elevators													
Electric (kWh)	4,036.2	3,651.8	4,420.6	3,844.0	4,228.4	4,228.4	3,844.0	4,420.6	3,844.0	4,228.4	4,036.2	3,844.0	48,626.6
Peak (kW)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Bsu 2: Exterior Lighting													
Electric (kWh)	175.4	158.4	173.3	170.1	174.4	168.0	176.4	173.3	170.1	174.4	169.0	176.4	2,059.1
Peak (kW)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Bsu 3: DHW													
Proc. Hot Water (therms)	136.3	123.3	149.3	129.8	142.8	142.8	129.8	149.3	129.8	142.8	136.3	129.8	1,641.7
Peak (therms/Hr)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Cpl 1: ACs [Sum of dsn coil capacities=376.1 tons]													
Water-cooled unitary - 001 [Clg Nominal Capacity/F.L.Rate=630 tons / 252 kW] (Cooling Equipment)													
Electric (kWh)	1,468.4	1,703.9	1,671.1	4,285.0	7,567.0	11,982.1	13,754.0	17,019.2	9,151.4	5,539.6	3,670.3	1,443.2	79,255.2
Peak (kW)	11.1	14.5	12.7	28.7	42.9	59.6	71.0	80.2	52.8	31.3	23.5	11.4	80.2
Cooling Tower/VFD [Design Heat Rejection/F.L.Rate=701.7 tons / 4.63 kW]													
Electric (kWh)	30.5	32.3	33.2	79.3	342.1	1,237.7	1,713.9	1,695.0	1,022.6	142.5	64.7	28.8	6,422.5
Peak (kW)	0.2	0.2	0.2	0.5	2.1	4.6	4.6	4.6	4.6	0.7	0.4	0.2	4.6
Cooling Tower/VFD													
Make Up Water (1000gal)	10.6	13.5	12.4	42.7	80.1	124.8	140.6	171.1	95.0	54.8	34.8	10.6	791.1
Peak (1000gal/Hr)	0.1	0.1	0.1	0.3	0.5	0.6	0.8	0.8	0.6	0.3	0.2	0.1	0.8

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 1 8981-02-122 5th-Proposed

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<u>Cpl 1: ACs [Sum of dsn coil capacities=376.1 tons]</u>													
Var vol cnd water pump [F.L.Rate=16.84 kW] (Misc Accessory Equipment)													
Electric (kWh)	42.0	52.6	48.9	151.5	264.3	398.9	448.2	542.0	306.4	191.2	127.7	41.9	2,615.5
Peak (kW)	0.3	0.5	0.4	1.0	1.5	2.0	2.5	2.6	1.8	1.1	0.9	0.4	2.6
Cntl panel & interlocks - 0.1 kW [F.L.Rate=0.10 kW] (Misc Accessory Equipment)													
Electric (kWh)	14.7	14.8	16.1	19.8	24.6	35.6	39.4	36.6	30.1	26.1	20.6	14.1	292.5
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<u>Cpl 2: RTU [Sum of dsn coil capacities=31.92 tons]</u>													
Air-cooled unitary - 002 [Clg Nominal Capacity/F.L.Rate=31.92 tons / 23.94 kW] (Cooling Equipment)													
Electric (kWh)	1,185.3	1,142.7	1,373.8	1,682.6	2,336.8	3,182.2	3,359.6	4,122.7	2,556.9	1,934.8	1,542.4	1,111.4	25,531.1
Peak (kW)	7.0	7.3	7.4	10.4	13.2	16.1	18.0	19.9	15.3	10.4	9.2	6.9	19.9
Fan Condenser [Design Heat Rejection/F.L.Rate=38.73 tons / 0.15 kW]													
Electric (kWh)	1.2	1.3	1.5	3.3	5.6	9.9	12.4	19.1	7.8	3.9	2.5	1.1	69.6
Peak (kW)	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Cntl panel & interlocks - 0.1 kW [F.L.Rate=0.10 kW] (Misc Accessory Equipment)													
Electric (kWh)	18.9	17.8	22.4	20.0	23.4	30.8	33.5	32.8	24.1	22.2	21.0	18.0	284.9
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<u>Cpl 3: AC-1FL [Sum of dsn coil capacities=80.94 tons]</u>													
Water-cooled unitary - 003 [Clg Nominal Capacity/F.L.Rate=80.94 tons / 32.38 kW] (Cooling Equipment)													
Electric (kWh)	479.8	516.6	487.5	1,265.7	2,144.5	3,173.8	3,797.6	4,395.5	2,639.5	1,513.2	1,040.1	465.5	21,919.2
Peak (kW)	1.8	2.2	1.8	5.2	8.4	11.8	13.4	16.4	10.3	5.8	4.1	1.7	16.4
Cooling Tower/VFD [Design Heat Rejection/F.L.Rate=90.15 tons / 0.59 kW]													
Electric (kWh)	10.3	9.8	10.1	23.1	92.6	229.6	276.9	292.7	222.3	35.4	18.0	9.9	1,230.7
Peak (kW)	0.0	0.0	0.0	0.1	0.4	0.6	0.6	0.6	0.6	0.1	0.1	0.0	0.6
Cooling Tower/VFD													
Make Up Water (1000gal)	3.4	4.0	3.5	12.6	23.1	33.9	39.9	44.5	28.2	15.5	9.9	3.2	221.7
Peak (1000gal/Hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.2
Var vol cnd water pump [F.L.Rate=2.16 kW] (Misc Accessory Equipment)													
Electric (kWh)	13.2	15.7	13.8	43.8	74.8	109.3	130.1	154.4	91.0	52.6	35.6	12.7	747.0
Peak (kW)	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.4	0.2	0.2	0.1	0.6

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 1 8981-02-122 5th-Proposed

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<u>Cpl 3: AC-1FL [Sum of dsn coil capacities=80.94 tons]</u>													
Cntl panel & interlocks - 0.1 KW [F.L.Rate=0.10 kW] (Misc Accessory Equipment)													
Electric (kWh)	39.1	35.5	38.3	44.6	46.5	47.6	49.1	49.2	47.0	46.5	44.5	38.3	526.2
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<u>Hpl 1: DHW [Sum of dsn coil capacities=71.31 mbh]</u>													
Boiler - 001 [Nominal Capacity/F.L.Rate=71.31 mbh / 20.89 kW] (Heating Equipment)													
Electric (kWh)	3,992.6	3,612.4	4,372.9	3,802.5	4,182.7	4,182.7	3,802.5	4,372.9	3,802.5	4,182.7	3,992.6	3,802.5	48,101.5
Peak (kW)	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
<u>Hpl 2: Heating plant - 005 [Sum of dsn coil capacities=3,210 mbh]</u>													
Boiler - 002 [Nominal Capacity/F.L.Rate=3,210 mbh / 35.68 Therms] (Heating Equipment)													
Gas (therms)	7,172.8	5,698.8	6,967.2	1,947.7	693.9	3.3	0.0	0.0	110.0	1,190.8	2,720.8	7,821.5	34,326.8
Peak (therms/Hr)	31.8	31.6	28.3	22.2	18.6	3.2	0.0	0.0	4.7	20.1	23.4	31.2	31.8
Boiler forced draft fan [F.L.Rate=3.21 kW] (Misc Accessory Equipment)													
Electric (kWh)	2,385.7	2,157.7	2,388.9	1,265.1	510.5	6.4	0.0	0.0	163.8	963.3	2,238.0	2,388.9	14,468.4
Peak (kW)	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0	3.2	3.2	3.2	3.2	3.2
Cntl panel & interlocks - 0.5 KW [F.L.Rate=0.50 kW] (Misc Accessory Equipment)													
Electric (kWh)	371.5	336.0	372.0	197.0	79.5	1.0	0.0	0.0	25.5	150.0	348.5	372.0	2,253.0
Peak (kW)	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5
<u>Sys 1: Water Package AC-30 Ton</u>													
Axial fan with VFD [DsnAirflow/F.L.Rate=40,178 cfm / 7.46 kW] (Main Clg Fan)													
Electric (kWh)	2,501.3	2,209.5	2,621.5	1,898.3	1,905.6	1,856.7	1,747.7	1,956.6	1,659.5	1,971.9	2,076.8	2,484.3	24,889.6
Peak (kW)	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
<u>Sys 2: RTU-1</u>													
Total-energy wheel (OA precondition) [Stage 1 Energy Recovery]													
Energy Recovered (therms)	404.7	330.7	449.0	145.1	38.3	23.6	20.3	24.5	21.9	114.5	200.5	402.6	2,175.6
Peak (therms/Hr)	2.3	2.2	2.4	1.3	0.6	0.2	0.2	0.1	0.4	1.0	1.4	2.5	2.5
Total-energy wheel (OA precondition) [Stage 1 Parasitics]													
Electric (kWh)	92.4	83.6	101.2	88.0	61.6	88.0	88.0	101.2	80.0	96.8	92.4	88.0	1,061.2
Peak (kW)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 1 8981-02-122 5th-Proposed

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Sys 2: RTU-1													
AF Centrifugal var freq drv [DsnAirflow/F.L.Rate=8,197 cfm / 11.19 kW] (Main Clg Fan)													
Electric (kWh)	3,535.1	3,051.1	3,668.7	2,539.1	2,527.6	2,716.7	2,560.3	2,880.6	2,422.6	2,679.8	2,873.3	3,447.8	34,902.5
Peak (kW)	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
AF Centrifugal var freq drv [DsnAirflow/F.L.Rate=5,396 cfm / 5.59 kW] (System Exhaust Fan)													
Electric (kWh)	1,115.8	1,007.3	1,217.4	1,052.2	1,059.9	1,132.7	1,054.7	1,208.3	1,031.6	1,159.5	1,103.9	1,054.7	13,198.0
Peak (kW)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Sys 3: WSHP													
Axial fan with VFD [DsnAirflow/F.L.Rate=24,945 cfm / 0.28 kW] (Main Clg Fan)													
Electric (kWh)	109.3	97.4	111.9	92.8	94.2	89.6	89.7	93.4	87.1	95.1	95.5	110.0	1,165.9
Peak (kW)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sys 4: Water Package AC-35 Ton													
Axial fan with VFD [DsnAirflow/F.L.Rate=105,269 cfm / 11.19 kW] (Main Clg Fan)													
Electric (kWh)	3,723.4	3,279.1	3,958.2	2,873.5	2,879.8	2,774.2	2,614.7	2,945.4	2,535.0	2,956.4	3,112.9	3,715.5	37,367.9
Peak (kW)	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 2 Baseline- Appendix CA- NYCECC

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Lights													
Electric (kWh)	48,689.9	44,035.4	52,250.4	46,545.0	50,470.2	50,105.5	46,909.6	52,250.4	46,545.0	50,470.2	48,325.2	46,909.6	583,506.4
Peak (kW)	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7	200.7
Misc. Ld													
Electric (kWh)	10,202.0	9,229.0	11,085.8	9,730.4	10,643.9	10,614.2	9,760.1	11,085.8	9,730.4	10,643.9	10,172.3	9,760.1	122,657.9
Peak (kW)	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
Cooling Coil Condensate													
Recoverable Water (1000gal)	0.2	0.2	0.2	1.3	11.1	23.8	33.3	65.2	23.5	2.6	1.0	0.2	162.4
Peak (1000gal/Hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.1	0.0	0.0	0.0	0.3
Bsu 1: Elevators													
Electric (kWh)	4,036.2	3,651.8	4,420.6	3,844.0	4,228.4	4,228.4	3,844.0	4,420.6	3,844.0	4,228.4	4,036.2	3,844.0	48,626.6
Peak (kW)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Bsu 2: Exterior Lighting													
Electric (kWh)	175.4	158.4	173.3	170.1	174.4	168.0	176.4	173.3	170.1	174.4	169.0	176.4	2,059.1
Peak (kW)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Bsu 3: DHW													
Proc. Hot Water (therms)	136.3	123.3	149.3	129.8	142.8	142.8	129.8	149.3	129.8	142.8	136.3	129.8	1,641.7
Peak (therms/Hr)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Cpl 1: ACs [Sum of dsn coil capacities=834.9 tons]													
Water-cooled unitary - 001 [Clg Nominal Capacity/F.L.Rate=834.9 tons / 659.6 kW] (Cooling Equipment)													
Electric (kWh)	0.0	0.0	0.0	4,506.8	16,649.6	32,287.0	39,535.0	60,562.5	24,866.3	7,776.7	1,675.2	9.3	187,868.3
Peak (kW)	0.0	0.0	0.0	146.1	146.1	185.9	237.6	316.2	149.6	146.1	146.1	146.1	316.2
90.1 Min Cooling Tower [Design Heat Rejection/F.L.Rate=1,022 tons / 65.14 kW]													
Electric (kWh)	0.0	0.0	0.0	1,338.1	3,830.7	11,707.5	17,797.2	21,397.7	8,386.7	2,092.0	1,013.2	7.2	67,570.2
Peak (kW)	0.0	0.0	0.0	8.5	21.0	65.1	65.1	65.1	49.1	9.2	8.1	7.2	65.1
90.1 Min Cooling Tower													
Make Up Water (1000gal)	0.0	0.0	0.0	19.3	71.3	139.2	169.2	252.4	106.5	33.3	7.2	0.0	798.5
Peak (1000gal/Hr)	0.0	0.0	0.0	0.2	0.4	0.8	1.0	1.3	0.6	0.2	0.2	0.0	1.3

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 2 Baseline- Appendix CA- NYCECC

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<u>Cpl 1: ACs [Sum of dsn coil capacities=834.9 tons]</u>													
90.1-13 Min Var Vol Chilled Water Pump [F.L.Rate=63.46 kW] (Misc Accessory Equipment)													
Electric (kWh)	0.0	0.0	0.0	250.5	821.4	1,483.1	1,797.0	2,815.9	1,144.4	417.8	99.5	0.6	8,830.2
Peak (kW)	0.0	0.0	0.0	2.5	4.5	8.3	10.7	15.7	6.6	2.9	1.9	0.6	15.7
90.1-13 Min Var Vol Cond Water Pump [F.L.Rate=93.26 kW] (Misc Accessory Equipment)													
Electric (kWh)	0.0	0.0	0.0	368.1	1,207.2	2,179.6	2,640.9	4,138.4	1,681.9	614.0	146.2	0.9	12,977.1
Peak (kW)	0.0	0.0	0.0	3.7	6.6	12.2	15.8	23.1	9.7	4.3	2.8	0.9	23.1
Cntl panel & interlocks - 1 KW [F.L.Rate=1 kW] (Misc Accessory Equipment)													
Electric (kWh)	0.0	0.0	0.0	160.0	242.0	310.0	362.0	346.0	259.0	240.0	126.0	1.0	2,046.0
Peak (kW)	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Var vol cnd water pump [F.L.Rate=66.41 kW] (Cooling Plant Circulation Pump)													
Electric (kWh)	0.0	0.0	0.0	262.1	859.7	1,552.2	1,880.7	2,947.1	1,197.7	437.3	104.1	0.6	9,241.5
Peak (kW)	0.0	0.0	0.0	2.6	4.7	8.7	11.2	16.5	6.9	3.1	2.0	0.6	16.5
<u>Cpl 2: RTU [Sum of dsn coil capacities=48.34 tons]</u>													
Air-cooled unitary - 002 [Clg Nominal Capacity/F.L.Rate=48.34 tons / 38.19 kW] (Cooling Equipment)													
Electric (kWh)	1,856.8	1,776.0	2,122.2	2,519.4	3,254.0	4,007.6	4,104.1	5,372.4	3,287.6	2,810.4	2,365.9	1,738.8	35,215.2
Peak (kW)	9.9	10.4	10.5	14.3	16.9	20.8	23.3	26.6	18.3	14.0	12.8	9.7	26.6
90.1 Min Cooling Tower [Design Heat Rejection/F.L.Rate=59.21 tons / 3.77 kW]													
Electric (kWh)	105.8	97.8	116.6	196.0	522.0	825.7	894.3	1,079.6	710.7	276.7	152.9	100.2	5,078.2
Peak (kW)	0.5	0.5	0.5	1.3	3.0	3.8	3.8	3.8	3.8	1.6	0.9	0.5	3.8
90.1 Min Cooling Tower													
Make Up Water (1000gal)	8.1	7.8	9.3	11.3	14.8	17.8	17.8	22.3	14.8	12.6	10.5	7.5	154.5
Peak (1000gal/Hr)	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
90.1-13 Min Var Vol Chilled Water Pump [F.L.Rate=3.67 kW] (Misc Accessory Equipment)													
Electric (kWh)	84.1	80.9	96.7	123.8	172.8	232.4	247.2	338.1	183.4	138.0	111.7	78.8	1,887.9
Peak (kW)	0.5	0.5	0.5	0.7	1.0	1.3	1.5	1.9	1.1	0.7	0.6	0.4	1.9
90.1-13 Min Var Vol Cond Water Pump [F.L.Rate=5.40 kW] (Misc Accessory Equipment)													
Electric (kWh)	123.6	118.9	142.2	181.9	254.0	341.6	363.2	496.9	269.5	202.9	164.2	115.7	2,774.5
Peak (kW)	0.7	0.7	0.7	1.1	1.5	1.9	2.2	2.7	1.6	1.1	0.9	0.6	2.7

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 2 Baseline- Appendix CA- NYCECC

----- Monthly Consumption -----													
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<u>Cpl 2: RTU [Sum of dsn coil capacities=48.34 tons]</u>													
Cntl panel & interlocks - 1 KW [F.L.Rate=1 kW] (Misc Accessory Equipment)													
Electric (kWh)	231.0	209.0	253.0	220.0	246.0	279.0	273.0	296.0	230.0	242.0	231.0	220.0	2,930.0
Peak (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<u>Cpl 3: AC-1FL [Sum of dsn coil capacities=129.8 tons]</u>													
Water-cooled unitary - 003 [Clg Nominal Capacity/F.L.Rate=129.8 tons / 102.5 kW] (Cooling Equipment)													
Electric (kWh)	247.5	300.9	262.1	3,578.2	7,586.5	10,975.9	13,240.6	16,421.1	9,679.7	5,074.5	2,540.7	210.4	70,118.1
Peak (kW)	22.7	22.7	22.7	22.7	23.2	35.6	43.5	53.1	30.1	22.7	22.7	22.7	53.1
90.1 Min Cooling Tower [Design Heat Rejection/F.L.Rate=158.9 tons / 10.12 kW]													
Electric (kWh)	78.1	104.3	78.1	540.8	1,318.2	3,538.2	4,290.7	4,767.0	2,909.2	647.9	516.5	69.0	18,858.0
Peak (kW)	1.1	1.1	1.1	1.4	4.4	10.1	10.1	10.1	9.3	2.0	1.3	1.1	10.1
90.1 Min Cooling Tower													
Make Up Water (1000gal)	1.1	1.3	1.1	15.3	32.5	47.4	56.5	68.4	42.0	21.7	10.9	0.9	299.0
Peak (1000gal/Hr)	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
90.1-13 Min Var Vol Chilled Water Pump [F.L.Rate=9.86 kW] (Misc Accessory Equipment)													
Electric (kWh)	13.9	16.9	14.7	184.8	348.2	495.0	596.8	771.8	438.5	249.0	137.6	11.8	3,278.9
Peak (kW)	0.4	0.4	0.4	0.6	1.0	1.7	2.1	2.8	1.4	0.8	0.5	0.3	2.8
90.1-13 Min Var Vol Cond Water Pump [F.L.Rate=14.49 kW] (Misc Accessory Equipment)													
Electric (kWh)	20.4	24.8	21.6	271.6	511.7	727.4	877.1	1,134.3	644.5	365.9	202.2	17.4	4,818.7
Peak (kW)	0.5	0.6	0.5	0.9	1.5	2.5	3.1	4.1	2.0	1.2	0.8	0.5	4.1
Cntl panel & interlocks - 1 KW [F.L.Rate=1 kW] (Misc Accessory Equipment)													
Electric (kWh)	70.0	93.0	70.0	420.0	445.0	464.0	505.0	496.0	457.0	436.0	420.0	62.0	3,938.0
Peak (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cnst vol cnd water pump [F.L.Rate=10.32 kW] (Cooling Plant Circulation Pump)													
Electric (kWh)	722.5	959.9	722.5	4,334.9	4,592.9	4,789.0	5,212.2	5,119.3	4,716.8	4,500.0	4,334.9	639.9	40,644.6
Peak (kW)	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
<u>Hpl 1: DHW [Sum of dsn coil capacities=71.31 mbh]</u>													
Boiler - 001 [Nominal Capacity/F.L.Rate=71.31 mbh / 20.89 kW] (Heating Equipment)													
Electric (kWh)	3,909.0	3,612.4	4,372.9	3,886.1	4,099.2	4,182.7	3,802.5	4,372.9	3,886.1	4,099.2	3,992.6	3,886.1	48,101.5
Peak (kW)	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 2 Baseline- Appendix CA- NYCECC

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
<u>Hpl 2: Heating plant - 005 [Sum of dsn coil capacities=9,715 mbh]</u>													
Boiler - 002 [Nominal Capacity/F.L.Rate=9,715 mbh / 121.4 Therms] (Heating Equipment)													
Gas (therms)	9,682.1	7,407.0	9,829.3	2,185.5	987.7	277.0	238.9	273.6	425.6	1,650.7	3,177.5	10,456.8	46,591.8
Peak (therms/Hr)	36.2	33.8	32.1	23.0	18.8	3.3	2.2	2.4	5.7	19.7	24.0	37.6	37.6
90.1-13 Min Var Vol HW Pump [F.L.Rate=14.77 kW] (Misc Accessory Equipment)													
Electric (kWh)	2,574.4	2,014.2	2,602.2	621.8	284.5	79.8	68.8	78.8	122.6	471.4	899.3	2,730.0	12,547.9
Peak (kW)	7.6	7.3	7.1	5.9	5.3	0.9	0.6	0.7	1.7	5.4	6.0	7.8	7.8
Make-up water - 0.000278 gal/btu (Misc Accessory Equipment)													
Make Up Water (1000gal)	2,004.0	1,814.9	2,009.4	1,782.5	1,412.5	1,142.4	1,131.6	1,158.6	1,191.1	1,644.8	1,882.5	2,009.4	19,183.8
Peak (1000gal/Hr)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Cntl panel & interlocks - 1 KW [F.L.Rate=1 kW] (Misc Accessory Equipment)													
Electric (kWh)	742.0	672.0	744.0	660.0	523.0	423.0	419.0	429.0	441.0	609.0	697.0	744.0	7,103.0
Peak (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<u>Sys 1: Water Package AC-30 Ton</u>													
90.1-10 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=31,012 cfm / 31.83 kW (**Orig F.L.Rate=289.6 kW)] (Main Clg Fan)													
Electric (kWh)	3,086.0	2,810.9	3,345.4	3,098.3	3,825.1	4,624.9	4,610.2	4,941.0	3,354.8	3,360.6	3,249.9	3,086.5	43,393.5
Peak (kW)	14.0	14.3	14.3	15.7	18.7	24.4	26.0	25.5	20.3	15.4	15.4	14.4	26.0
<u>Sys 2: RTU-1</u>													
Total-energy wheel (OA precondition) [Stage 1 Energy Recovery]													
Energy Recovered (therms)	434.9	355.4	482.5	155.9	41.1	27.8	25.6	33.4	22.7	123.0	215.4	432.7	2,350.2
Peak (therms/Hr)	2.5	2.3	2.6	1.4	0.6	0.2	0.2	0.2	0.4	1.1	1.5	2.7	2.7
Total-energy wheel (OA precondition) [Stage 1 Parasitics]													
Electric (kWh)	92.4	83.6	101.2	88.0	61.6	88.0	88.0	101.2	88.0	96.8	92.4	88.0	1,069.2
Peak (kW)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90.1-10 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=13,563 cfm / 10.93 kW (**Orig F.L.Rate=368.0 kW)] (Main Clg Fan)													
Electric (kWh)	1,251.4	1,161.2	1,447.0	1,351.3	1,507.5	1,619.3	1,538.4	1,708.2	1,331.0	1,342.7	1,262.1	1,222.9	16,743.1
Peak (kW)	6.1	6.4	6.8	7.8	8.2	8.3	8.5	8.6	8.1	7.0	6.8	6.0	8.6
90.1-10 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=5,795 cfm / 3.21 kW (**Orig F.L.Rate=108.2 kW)] (System Exhaust Fan)													
Electric (kWh)	628.5	567.9	687.0	595.2	655.1	654.7	596.0	683.9	595.8	655.4	624.6	595.9	7,539.9
Peak (kW)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

EQUIPMENT ENERGY CONSUMPTION

By MG Engineering D.P.C

Alternative: 2 Baseline- Appendix CA- NYCECC

	----- Monthly Consumption -----												
Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Sys 3: WSHP													
90.1-10 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=14,334 cfm / 14.95 kW (**Orig F.L.Rate=33.45 kW)] (Main Clg Fan)													
Electric (kWh)	3,575.2	3,305.0	3,693.1	3,201.7	3,330.9	3,402.2	3,504.9	3,579.7	3,198.0	3,327.0	3,253.6	3,500.5	40,871.8
Peak (kW)	9.0	9.0	9.0	10.1	9.9	10.3	10.5	11.4	10.7	9.9	9.7	9.0	11.4
Sys 4: Water Package AC-35 Ton													
90.1-10 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=79,285 cfm / 80.60 kW (**Orig F.L.Rate=740.1 kW)] (Main Clg Fan)													
Electric (kWh)	7,432.6	6,632.9	7,998.9	7,210.5	8,130.9	9,420.0	9,753.3	11,245.3	8,510.7	7,839.8	7,632.6	7,407.9	99,215.3
Peak (kW)	29.7	30.1	30.0	45.1	43.2	50.9	63.9	61.2	54.4	42.1	41.0	30.3	63.9

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

Alternative 1

		Lights			People				Misc. Equipment			
		Space Load	Ret Air Load		Space Sensible	Ret Air Sensible	Space Latent		Space Sensible	Space Latent	Ret Air Load	
System Zone Room		Btu/h	Btu/h	CLF	Btu/h	Btu/h	Btu/h	CLF	Btu/h	Btu/h	Btu/h	CLF
10-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
10-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
10-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
10-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
10-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
2-East-Zone 1	Zn Tot/Ave	883	221	0.938	659	0	791	0.940	357	0	0	0.925
2-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
2-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
2-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
2-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
3-East-Zone 1	Zn Tot/Ave	883	221	0.938	659	0	791	0.940	357	0	0	0.925
3-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
3-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
3-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
3-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
4-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
4-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
4-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
4-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
4-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
5-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
5-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
5-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
5-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
5-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
6-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
6-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
6-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
6-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
6-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
7-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
7-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
7-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
7-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
7-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
8-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
8-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
8-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
8-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
8-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
9-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
9-Interior-Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
9-Interior-Zone 2	Zn Tot/Ave	6,195	1,549	1.000	4,942	0	5,203	1.000	2,539	0	0	1.000
9-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
9-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
Cellar-East-Zone 1	Zn Tot/Ave	942	236	1.000	752	0	791	1.000	386	0	0	1.000
Cellar-Interior Zone 1	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
Cellar-Interior-Zone 2	Zn Tot/Ave	3,547	887	1.000	2,829	0	2,978	1.000	1,454	0	0	1.000
Cellar-North-Zone 1	Zn Tot/Ave	885	221	1.000	706	0	743	1.000	363	0	0	1.000
Cellar-West-Zone 1	Zn Tot/Ave	1,761	440	1.000	1,405	0	1,479	1.000	722	0	0	1.000
Water Package AC-30 Ton	Sys Tot/Ave	130,535	32,634	0.999	104,043	0	109,713	0.999	53,488	0	0	0.999
Water Package AC-30 Ton	Sys Block	130,653	32,663	1.000	104,227	0	109,713	1.000	53,546	0	0	1.000
11- Pavilion	Zn Tot/Ave	3,237	809	1.000	124,523	0	68,815	1.000	1,195	0	0	1.000
RTU-1	Sys Tot/Ave	3,237	809	1.000	124,523	0	68,815	1.000	1,195	0	0	1.000
RTU-1	Sys Block	3,237	809	1.000	124,523	0	68,815	1.000	1,195	0	0	1.000
1-East-Zone 1	Zn Tot/Ave	1,958	489	0.975	2,098	0	3,397	0.829	651	0	0	0.545
1-East-Zone 2	Zn Tot/Ave	2,302	576	0.975	2,467	0	3,995	0.829	651	0	0	0.545
1-East-Zone 3	Zn Tot/Ave	869	217	0.938	2,360	0	2,831	0.940	0	0	0	0.000
1-Interior-Zone 1	Zn Tot/Ave	7,559	1,890	1.000	12,150	0	12,790	1.000	956	0	0	0.800
1-Interior-Zone 2	Zn Tot/Ave	13,203	3,301	1.000	21,224	0	22,341	1.000	956	0	0	0.800
1-Interior-Zone 3	Zn Tot/Ave	16,544	4,136	1.000	26,594	0	27,994	1.000	956	0	0	0.800
1-Interior-Zone 4	Zn Tot/Ave	3,723	931	1.000	10,804	0	11,373	1.000	0	0	0	0.000
1-Interior-Zone 5	Zn Tot/Ave	4,116	1,029	1.000	11,947	0	12,575	1.000	0	0	0	0.000
1-North-Landmark	Zn Tot/Ave	1,115	279	1.000	1,792	0	1,886	1.000	956	0	0	0.800
1-North-Zone 2	Zn Tot/Ave	4,241	1,060	1.000	6,817	0	7,176	1.000	956	0	0	0.800
1-North-Zone 3	Zn Tot/Ave	514	129	1.000	1,492	0	1,571	1.000	0	0	0	0.000
1-South-Zone 1	Zn Tot/Ave	4,053	1,013	1.000	6,515	0	6,858	1.000	956	0	0	0.800
1-South-Landmark	Zn Tot/Ave	877	219	1.000	2,544	0	2,678	1.000	0	0	0	0.000
1-South-Zone 3	Zn Tot/Ave	556	139	1.000	1,615	0	1,700	1.000	0	0	0	0.000
1-West-Zone 1	Zn Tot/Ave	3,753	938	1.000	6,032	0	6,350	1.000	956	0	0	0.800
1-West-Zone 2	Zn Tot/Ave	1,679	420	1.000	4,874	0	5,131	1.000	0	0	0	0.000
1-North-Zone 1	Zn Tot/Ave	633	158	1.000	1,017	0	1,070	1.000	956	0	0	0.800
WSHP	Sys Tot/Ave	67,694	16,924	0.998	122,343	0	131,717	0.991	8,947	0	0	0.749
WSHP	Sys Block	67,861	16,965	1.000	125,074	0	131,717	1.000	9,499	0	0	0.795
10-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
10-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
10-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
10-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
10-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
10-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
10-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
10-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
10-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
10-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
10-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
2-East-Zone 2	Zn Tot/Ave	1,039	260	0.938	776	0	930	0.940	420	0	0	0.925
2-East-Zone 3	Zn Tot/Ave	736	184	0.938	550	0	659	0.940	298	0	0	0.925
2-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
2-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
2-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
2-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
2-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
2-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
2-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
2-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
2-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
3-East-Zone 2	Zn Tot/Ave	1,039	260	0.938	776	0	930	0.940	420	0	0	0.925
3-East-Zone 3	Zn Tot/Ave	736	184	0.938	550	0	659	0.940	298	0	0	0.925
3-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
3-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
3-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
3-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
3-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
3-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
3-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
3-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
3-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
4-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
4-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
4-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
4-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
4-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
4-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
4-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
4-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
4-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
4-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
4-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Lights			People				Misc. Equipment			
		Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
System Zone Room		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
5-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
5-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
5-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
5-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
5-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
5-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
5-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
5-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
5-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
5-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
5-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
6-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
6-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
6-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
6-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
6-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
6-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
6-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
6-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
6-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
6-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
6-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
7-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
7-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
7-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
7-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
7-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
7-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
7-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
7-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
7-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
7-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
7-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
8-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
8-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
8-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
8-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
8-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
8-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
8-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
8-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
8-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
8-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
8-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
9-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
9-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
9-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
9-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
9-Interior-Zone 5	Zn Tot/Ave	3,487	872	1.000	2,782	0	2,928	1.000	1,429	0	0	1.000
9-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
9-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
9-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
9-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
9-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
9-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
Cellar-East-Zone 2	Zn Tot/Ave	1,108	277	1.000	884	0	930	1.000	454	0	0	1.000
Cellar-East-Zone 3	Zn Tot/Ave	785	196	1.000	626	0	659	1.000	322	0	0	1.000
Cellar-Interior-Zone 3	Zn Tot/Ave	7,763	1,941	1.000	6,193	0	6,519	1.000	3,182	0	0	1.000
Cellar-Interior-Zone 4	Zn Tot/Ave	3,154	788	1.000	2,516	0	2,648	1.000	1,293	0	0	1.000
Cellar-Interior-Zone 5	Zn Tot/Ave	3,111	778	1.000	2,482	0	2,612	1.000	1,275	0	0	1.000
Cellar-North-Zone 2	Zn Tot/Ave	1,990	497	1.000	1,587	0	1,671	1.000	816	0	0	1.000
Cellar-North-Zone 3	Zn Tot/Ave	436	109	1.000	347	0	366	1.000	178	0	0	1.000
Cellar-South-Zone 1	Zn Tot/Ave	1,902	475	1.000	1,517	0	1,597	1.000	779	0	0	1.000
Cellar-South-Zone 2	Zn Tot/Ave	743	186	1.000	592	0	624	1.000	304	0	0	1.000
Cellar-South-Zone 3	Zn Tot/Ave	471	118	1.000	376	0	396	1.000	193	0	0	1.000
Cellar-West-Zone 2	Zn Tot/Ave	1,423	356	1.000	1,135	0	1,195	1.000	583	0	0	1.000
Water Package AC-35 Ton	Sys Tot/Ave	232,004	58,001	0.999	184,898	0	195,018	0.999	95,064	0	0	0.999
Water Package AC-35 Ton	Sys Block	232,240	58,060	1.000	185,268	0	195,018	1.000	95,180	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
10-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
7-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Block	0	0	0	0	0	0	0	0.0	0.0
11- Pavilion		0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Block	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 1		0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 2		0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 3		0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 1		0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 2		0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 3		0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 4		0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 5		0	0	0	0	0	0	0	0.0	0.0
1-North-Landmark		0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 2		0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 3		0	0	0	0	0	0	0	0.0	0.0
1-South-Zone 1		0	0	0	0	0	0	0	0.0	0.0
1-South-Landmark		0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System	Zone Room	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
	1-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	1-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	1-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	1-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
	10-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	10-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	2-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	3-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	3-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	3-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
3-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
6-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People	Lighting	Misc	Internal Lds	Wall	Glass	Solar	Envelope	Occupied	Stratified
	Sens Load To Stratified Btu/h	Load To Stratified Btu/h	Sens Load To Stratified Btu/h	Total To Stratified Btu/h	Conduction To Stratified Btu/h	Conduction To Stratified Btu/h	Load To Stratified Btu/h	Total To Stratified Btu/h	Lower Layer °F	Upper Layer °F
9-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Block	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

Alternative 2

		Lights			People				Misc. Equipment			
		Space Load	Ret Air Load	CLF	Space Sensible	Ret Air Sensible	Space Latent	CLF	Space Sensible	Space Latent	Ret Air Load	CLF
System Zone Room		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
10-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
10-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
10-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
10-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
10-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
2-East-Zone 1	Zn Tot/Ave	1,129	282	0.938	955	0	831	0.931	357	0	0	0.925
2-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
2-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
2-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
2-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
3-East-Zone 1	Zn Tot/Ave	1,129	282	0.938	955	0	831	0.931	357	0	0	0.925
3-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
3-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
3-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
3-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
4-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
4-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
4-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
4-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
4-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
5-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
5-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
5-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
5-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
5-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
6-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
6-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
6-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
6-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
6-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
7-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
7-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
7-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
7-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
7-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
8-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
8-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
8-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
8-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
8-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
9-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
9-Interior-Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
9-Interior-Zone 2	Zn Tot/Ave	7,922	1,981	1.000	7,153	0	5,463	1.000	2,539	0	0	1.000
9-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
9-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
Cellar-East-Zone 1	Zn Tot/Ave	1,205	301	1.000	1,088	0	831	1.000	386	0	0	1.000
Cellar-Interior Zone 1	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
Cellar-Interior-Zone 2	Zn Tot/Ave	4,535	1,134	1.000	4,095	0	3,127	1.000	1,454	0	0	1.000
Cellar-North-Zone 1	Zn Tot/Ave	1,132	283	1.000	1,022	0	780	1.000	363	0	0	1.000
Cellar-West-Zone 1	Zn Tot/Ave	2,252	563	1.000	2,033	0	1,553	1.000	722	0	0	1.000
Water Package AC-30 Ton	Sys Tot/Ave	166,914	41,728	0.999	150,589	0	115,198	0.999	53,488	0	0	0.999
Water Package AC-30 Ton	Sys Block	167,064	41,766	1.000	150,855	0	115,198	1.000	53,546	0	0	1.000
11- Pavilion	Zn Tot/Ave	13,068	3,267	1.000	150,739	0	72,092	1.000	1,195	0	0	1.000
RTU-1	Sys Tot/Ave	13,068	3,267	1.000	150,739	0	72,092	1.000	1,195	0	0	1.000
RTU-1	Sys Block	13,068	3,267	1.000	150,739	0	72,092	1.000	1,195	0	0	1.000
1-East-Zone 1	Zn Tot/Ave	1,882	471	0.938	3,036	0	3,567	0.802	651	0	0	0.545
1-East-Zone 2	Zn Tot/Ave	2,214	553	0.938	3,571	0	4,195	0.802	651	0	0	0.545
1-East-Zone 3	Zn Tot/Ave	1,158	290	1.000	3,893	0	2,973	1.000	0	0	0	0.000
1-Interior-Zone 1	Zn Tot/Ave	7,559	1,890	1.000	17,586	0	13,429	1.000	956	0	0	0.800
1-Interior-Zone 2	Zn Tot/Ave	13,203	3,301	1.000	30,719	0	23,458	1.000	956	0	0	0.800
1-Interior-Zone 3	Zn Tot/Ave	16,544	4,136	1.000	38,492	0	29,394	1.000	956	0	0	0.800
1-Interior-Zone 4	Zn Tot/Ave	4,653	1,163	1.000	15,638	0	11,941	1.000	0	0	0	0.000
1-Interior-Zone 5	Zn Tot/Ave	5,145	1,286	1.000	17,291	0	13,204	1.000	0	0	0	0.000
1-North-Zone 1	Zn Tot/Ave	633	158	1.000	1,472	0	1,124	1.000	956	0	0	0.800
1-North-Zone 2	Zn Tot/Ave	4,241	1,060	1.000	9,866	0	7,534	1.000	956	0	0	0.800
1-North-Zone 3	Zn Tot/Ave	643	161	1.000	2,159	0	1,649	1.000	0	0	0	0.000
1-South-Zone 1	Zn Tot/Ave	4,053	1,013	1.000	9,430	0	7,201	1.000	956	0	0	0.800
1-South-Landmark	Zn Tot/Ave	1,096	274	1.000	3,683	0	2,812	1.000	0	0	0	0.000
1-South-Zone 3	Zn Tot/Ave	695	174	1.000	2,337	0	1,785	1.000	0	0	0	0.000
1-West-Zone 1	Zn Tot/Ave	3,753	938	1.000	8,731	0	6,667	1.000	956	0	0	0.800
1-West-Zone 2	Zn Tot/Ave	2,099	525	1.000	7,055	0	5,388	1.000	0	0	0	0.000
1-North-Landmark	Zn Tot/Ave	1,115	279	1.000	2,594	0	1,981	1.000	956	0	0	0.800
WSHP	Sys Tot/Ave	70,686	17,672	0.996	177,553	0	138,302	0.991	8,947	0	0	0.749
WSHP	Sys Block	70,959	17,740	1.000	181,028	0	138,302	1.000	9,499	0	0	0.795
10-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
10-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
10-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
10-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
10-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
10-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
10-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
10-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
10-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
10-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
10-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
2-East-Zone 2	Zn Tot/Ave	1,328	332	0.938	1,123	0	977	0.931	420	0	0	0.925
2-East-Zone 3	Zn Tot/Ave	941	235	0.938	795	0	692	0.931	298	0	0	0.925
2-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
2-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
2-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
2-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
2-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
2-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
2-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
2-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
2-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
3-East-Zone 2	Zn Tot/Ave	1,328	332	0.938	1,123	0	977	0.931	420	0	0	0.925
3-East-Zone 3	Zn Tot/Ave	941	235	0.938	795	0	692	0.931	298	0	0	0.925
3-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
3-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
3-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
3-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
3-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
3-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
3-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
3-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
3-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
4-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
4-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
4-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
4-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
4-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
4-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
4-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
4-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
4-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
4-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
4-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
5-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
5-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
5-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
5-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
5-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
5-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
5-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
5-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
5-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
5-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
5-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
6-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
6-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
6-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
6-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
6-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
6-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
6-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
6-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
6-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
6-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
6-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
7-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
7-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
7-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
7-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
7-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
7-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
7-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
7-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
7-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
7-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
7-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
8-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
8-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
8-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
8-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
8-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
8-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
8-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		Lights			People				Misc. Equipment			
		Space	Ret Air	CLF	Space	Ret Air	Space	CLF	Space	Space	Ret Air	CLF
		Load	Load		Sensible	Sensible	Latent		Sensible	Latent	Load	
		Btu/h	Btu/h		Btu/h	Btu/h	Btu/h		Btu/h	Btu/h	Btu/h	
8-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
8-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
8-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
8-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
9-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
9-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
9-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
9-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
9-Interior-Zone 5	Zn Tot/Ave	4,459	1,115	1.000	4,027	0	3,075	1.000	1,429	0	0	1.000
9-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
9-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
9-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
9-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
9-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
9-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
Cellar-East-Zone 2	Zn Tot/Ave	1,417	354	1.000	1,279	0	977	1.000	454	0	0	1.000
Cellar-East-Zone 3	Zn Tot/Ave	1,004	251	1.000	907	0	692	1.000	322	0	0	1.000
Cellar-Interior-Zone 3	Zn Tot/Ave	9,927	2,482	1.000	8,963	0	6,845	1.000	3,182	0	0	1.000
Cellar-Interior-Zone 4	Zn Tot/Ave	4,033	1,008	1.000	3,641	0	2,781	1.000	1,293	0	0	1.000
Cellar-Interior-Zone 5	Zn Tot/Ave	3,978	994	1.000	3,592	0	2,743	1.000	1,275	0	0	1.000
Cellar-North-Zone 2	Zn Tot/Ave	2,544	636	1.000	2,298	0	1,755	1.000	816	0	0	1.000
Cellar-North-Zone 3	Zn Tot/Ave	557	139	1.000	503	0	384	1.000	178	0	0	1.000
Cellar-South-Zone 1	Zn Tot/Ave	2,432	608	1.000	2,196	0	1,677	1.000	779	0	0	1.000
Cellar-South-Zone 2	Zn Tot/Ave	950	237	1.000	858	0	655	1.000	304	0	0	1.000
Cellar-South-Zone 3	Zn Tot/Ave	603	151	1.000	544	0	416	1.000	193	0	0	1.000
Cellar-West-Zone 2	Zn Tot/Ave	1,819	455	1.000	1,643	0	1,255	1.000	583	0	0	1.000
Water Package AC-35 Ton	Sys Tot/Ave	296,660	74,165	0.999	267,615	0	204,769	0.999	95,064	0	0	0.999
Water Package AC-35 Ton	Sys Block	296,963	74,241	1.000	268,150	0	204,769	1.000	95,180	0	0	1.000

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
10-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System Zone Room		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
7-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
11- Pavilion		0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Landmark		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System	Zone Room	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
	1-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	1-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	1-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	1-North-Landmark	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
	10-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	10-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	10-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	10-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	10-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	2-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	2-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	2-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	2-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	3-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
	3-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
	3-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
	3-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
3-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
6-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL COOLING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
9-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Block	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

Alternative 1

		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space Load	Plenum Load		Space Sensible	Ret Air Sensible		Space Sensible	Plenum Sensible	
System	Zone Room	Btu/h	Btu/h	CLF	Btu/h	Btu/h	CLF	Btu/h	Btu/h	CLF
	10-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	8-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	8-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-30 Ton	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
11- Pavilion	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
RTU-1	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
RTU-1	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Landmark	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Landmark	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
WSHP	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
WSHP	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
10-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
10-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
4-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
8-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-35 Ton	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
10-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System Zone Room		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
7-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
11- Pavilion		0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Landmark		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Landmark		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System Zone Room		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
1-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
10-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
3-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
6-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
9-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Block	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

Alternative 2

		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space Load	Plenum Load		Space Sensible	Ret Air Sensible		Space Sensible	Plenum Sensible	
System	Zone Room	Btu/h	Btu/h	CLF	Btu/h	Btu/h	CLF	Btu/h	Btu/h	CLF
	10-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	10-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	2-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	3-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	4-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	5-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	6-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	7-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	8-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000
	8-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
8-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-30 Ton	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
11- Pavilion	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
RTU-1	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
RTU-1	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Landmark	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-West-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
1-North-Landmark	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
WSHP	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
WSHP	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000
10-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
10-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
10-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
2-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
3-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

Project Name:
Dataset Name: 898102-122 5TH.TRC

TRACE® 700 v6.3.5 calculated at 11:35 AM on 11/09/2022
Alternative - 2 Internal Htg Loads at Coil Peak Report Page 14 of 22

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
4-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
4-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
5-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
6-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
7-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room		LIGHTS			PEOPLE			MISC. EQUIPMENT		
		Space	Plenum	CLF	Space	Ret Air	CLF	Space	Plenum	CLF
		Load	Load		Sensible	Sensible		Sensible	Sensible	
		Btu/h	Btu/h		Btu/h	Btu/h		Btu/h	Btu/h	
8-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
8-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
9-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-East-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 4	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-Interior-Zone 5	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-North-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 1	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-South-Zone 3	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Cellar-West-Zone 2	Zn Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0.000	0	0	0.000	0	0	0.000
Water Package AC-35 Ton	Sys Block	0	0	0.000	0	0	0.000	0	0	0.000

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
10-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System Zone Room		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
7-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-30 Ton	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
11- Pavilion		0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
RTU-1	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
1-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-South-Landmark		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

		Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
System Zone Room		People Sens Load To Stratified Btu/h	Lighting Load To Stratified Btu/h	Misc Sens Load To Stratified Btu/h	Internal Lds Total To Stratified Btu/h	Wall Conduction To Stratified Btu/h	Glass Conduction To Stratified Btu/h	Solar Load To Stratified Btu/h	Envelope Total To Stratified Btu/h	Occupied Lower Layer °F	Stratified Upper Layer °F
1-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
1-West-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
1-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
1-North-Landmark		0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Tot/Ave	0	0	0	0	0	0	0	0	0.0	0.0
WSHP	Sys Block	0	0	0	0	0	0	0	0	0.0	0.0
10-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
10-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
10-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
10-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
2-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-North-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 1		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
2-South-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
2-West-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0
3-East-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 3		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 4		0	0	0	0	0	0	0	0	0.0	0.0
3-Interior-Zone 5		0	0	0	0	0	0	0	0	0.0	0.0
3-North-Zone 2		0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
3-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
3-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
3-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
4-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
4-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
4-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
5-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
5-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
5-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
6-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
6-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
6-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
6-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
7-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
7-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
7-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
8-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
8-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
8-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
9-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0

INTERNAL HEATING LOADS

AT COIL PEAK

By MG Engineering D.P.C

System Zone Room	Internal Loads to Stratified Upper Layer				Envelope Loads to Stratified Upper Layer				Room Temperatures	
	People Sens Load To Stratified	Lighting Load To Stratified	Misc Sens Load To Stratified	Internal Lds Total To Stratified	Wall Conduction To Stratified	Glass Conduction To Stratified	Solar Load To Stratified	Envelope Total To Stratified	Occupied Lower Layer	Stratified Upper Layer
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	°F	°F
9-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
9-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
9-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-East-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 4	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-Interior-Zone 5	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-North-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 1	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-South-Zone 3	0	0	0	0	0	0	0	0	0.0	0.0
Cellar-West-Zone 2	0	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Tot/Ave	0	0	0	0	0	0	0	0.0	0.0
Water Package AC-35 Ton	Sys Block	0	0	0	0	0	0	0	0.0	0.0

LEED Energy Performance Summary Report

By MG Engineering D.P.C

Section 1.1 - General Information

Simulation Program: TRACE™ 700 v6.3.5
Principle Heating Source: Fossil Fuel
Energy Code Used: ASHRAE 90.1-2010
Weather File: New York (LaGuardia), New York (Full Year - 8760)
Climate Zone: 4A
New Construction Percent: 22 %
Existing Renovation Percent: 78 %
Quantity of Floors: 11
Proposed: Alternative 1 - 8981-02-122 5th-Proposed
Baseline: Alternative 2 - Baseline- Appendix CA- NYCECC

Section 1.2 - Space Summary

Building Use (Occupancy Type)	Space Area (ft²)	Regularly Occupied Area (ft²)	Unconditioned Area (ft²)
Office-Existing	186,449.00	186,449.00	0.00
Lobby-Existing	2,364.00	2,364.00	0.00
Retail-Existing	15,313.00	15,313.00	0.00
Amenity- New Construction	4,391.00	4,391.00	0.00
Lobby-New Construction	3,492.00	3,492.00	0.00
Office-New Construction	31,433.00	31,433.00	0.00
Retail-Landmark	314.00	314.00	0.00
Lobby-Landmark	445.00	445.00	0.00
Total	244,201.00	244,201.00	0.00

LEED Energy Performance Summary Report

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Section 1.3 - Advisory Messages

Advisory Messages	Baseline Building (0 deg rotation)	Proposed Building
Number of hours heating load not met:	57	31
Number of hours cooling load not met:	0	0
Total	57	31

LEED Energy Performance Summary Report

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Section 1.4 - Comparison of Proposed Design Versus Baseline Design

Input Parameter	Proposed Design Input	Baseline Design Input
Exterior Wall Construction	122 5th Existing Wall U-factor: 0.180 Btu/h·ft²·°F	122 5th Existing Wall U-factor: 0.124 Btu/h·ft²·°F
Exterior Wall Construction	122 5th New Wall U-factor: 0.063 Btu/h·ft²·°F	90.1-13 Min Wall Nonres Zone 4 U-factor: 0.124 Btu/h·ft²·°F
Roof Construction	122 5th- Existing Roof U-factor: 0.163 Btu/h·ft²·°F Reflectivity: 0.10	122 5th- Existing Roof U-factor: 0.063 Btu/h·ft²·°F Reflectivity: 0.10
Roof Construction	122 5th- New Roof U-factor: 0.024 Btu/h·ft²·°F Reflectivity: 0.10	90.1-13 Min Roof Nonres Zone 2-3 U-factor: 0.063 Btu/h·ft²·°F Reflectivity: 0.55
Window-to-gross wall ratio	12.5 %	12.5 %
Fenestration Type	122 5th- Existing Fenestration U-factor: 1.050 Btu/h·ft²·°F SHGC: 0.34 Visible Transmissivity: 0.678	122 5th- Existing Fenestration U-factor: 0.570 Btu/h·ft²·°F SHGC: 0.38 Visible Transmissivity: 0.678
Fenestration Type	122 5th- New Fenestration U-factor: 0.420 Btu/h·ft²·°F SHGC: 0.38 Visible Transmissivity: 0.678	90.1-2013 Window Zone 4-6 Metal Fixed U-factor: 0.570 Btu/h·ft²·°F SHGC: 0.38 Visible Transmissivity: 0.440
Fenestration Type	122 5th- Landmark Fenestration U-factor: 0.900 Btu/h·ft²·°F SHGC: 0.67 Visible Transmissivity: 0.678	
Interior Light Power Density	Lighting Compliance: Space-By-Space Method Daylighting Controls: No Building: 0.65 W/ft²	Lighting Compliance: Space-By-Space Method Daylighting Controls: No Building: 0.82 W/ft²
Interior Light Power Density	Room Type: Office-Existing - 0.61 W/ft² Lobby-Existing - 0.72 W/ft² Retail-Existing - 1.30 W/ft² Amenity- New Construction - 0.27 W/ft² Lobby-New Construction - 0.72 W/ft²	Room Type: Office-Existing - 0.78 W/ft² Lobby-Existing - 0.90 W/ft² Retail-Existing - 1.30 W/ft² Amenity- New Construction - 1.09 W/ft² Lobby-New Construction - 0.90 W/ft²

LEED Energy Performance Summary Report

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Section 1.4 - Comparison of Proposed Design Versus Baseline Design

Input Parameter	Proposed Design Input	Baseline Design Input
Interior Light Power Density	Room Type: Office-New Construction - 0.61 W/ft ² Retail-Landmark - 1.30 W/ft ² Lobby-Landmark - 0.72 W/ft ²	Room Type: Office-New Construction - 0.78 W/ft ²
Receptacle Elec Eq Power Density	0.19 W/ft ²	0.19 W/ft ²
HVAC System Type	WSHP Water Source Heat Pump Supply vol: 24945 cfm Fan power: 0.28 kW	WSHP System 7 - 2010 - VAV Reheat Chill Water & Hot Water Supply vol: 14334 cfm Fan power: 14.95 kW
HVAC System Type	Water Package AC-30 Ton Water Source Heat Pump Supply vol: 40179 cfm Fan power: 7.46 kW	Water Package AC-30 Ton System 7 - 2010 - VAV Reheat Chill Water & Hot Water Supply vol: 31013 cfm Fan power: 31.83 kW
HVAC System Type	Water Package AC-35 Ton Water Source Heat Pump Supply vol: 105269 cfm Fan power: 11.19 kW	Water Package AC-35 Ton System 7 - 2010 - VAV Reheat Chill Water & Hot Water Supply vol: 79286 cfm Fan power: 80.60 kW
HVAC System Type	RTU-1 Variable Temperature Constant Volume Uses: Heat recov Supply vol: 8198 cfm Fan power: 16.78 kW Dedicated OA Config: Cool/Heat	RTU-1 System 7 - 2010 - VAV Reheat Chill Water & Hot Water Uses: Heat recov Supply vol: 13563 cfm Fan power: 14.14 kW Dedicated OA Config: Cool/Heat
Cooling Equipment	Plant: ACs Type: Default water-cooled unitary Category: Water-cooled unitary Clg Cap: 630 tons Engy Rate: 0.4 kW/ton	Plant: RTU Type: 90.1-13 Min PD Chiller < 75 Tons Path A Category: Water-cooled chiller Clg Cap: Design Engy Rate: 0.79 kW/ton
Cooling Equipment	Plant: AC-1FL Type: Default water-cooled unitary Category: Water-cooled unitary Clg Cap: Design Engy Rate: 0.4 kW/ton	Plant: ACs Type: 90.1-13 Min PD Chiller < 75 Tons Path A Category: Water-cooled chiller Clg Cap: Design Engy Rate: 0.79 kW/ton
Cooling Equipment	Plant: RTU Type: Default air-cooled unitary Category: Air-cooled unitary Clg Cap: Design Engy Rate: 0.75 kW/ton	Plant: AC-1FL Type: 90.1-13 Min PD Chiller < 75 Tons Path A Category: Water-cooled chiller Clg Cap: Design Engy Rate: 0.79 kW/ton
Chilled Water Pump		Type: 90.1-13 Min Var Vol Chilled Water Pump Full load consumption: 38 Watt/gpm Quantity: 3

LEED Energy Performance Summary Report

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Section 1.4 - Comparison of Proposed Design Versus Baseline Design

Input Parameter	Proposed Design Input	Baseline Design Input
Condenser Water Pump	Type: Var vol cnd water pump Full load consumption: 10 Watt/gpm Quantity: 2	Type: 90.1-13 Min Var Vol Cond Water Pump Full load consumption: 38 Watt/gpm Quantity: 3
Secondary Distribution Pump		Type: Var vol cnd water pump Full load consumption: 39.77 Watt/gpm
Secondary Distribution Pump		Type: Cnst vol cnd water pump Full load consumption: 39.77 Watt/gpm
Heat Rejection Parameters	Type: Fan Condenser HR Type: Air-cooled condenser Energy Consumption: 0.004000 kW/ton	Type: 90.1 Min Cooling Tower HR Type: Cooling tower (DOE) Energy Consumption: 0.063700 kW/ton Quantity: 3
Heat Rejection Parameters	Type: Cooling Tower/VFD HR Type: Cooling tower (Marley) Energy Consumption: 0.006600 kW/ton Quantity: 2	
Heating Equipment	Plant: Heating plant - 005 Type: Gas Fired Hot Water Boiler Category: Boiler Capacity: Design Energy Rate: 90 Percent efficient	Plant: Heating plant - 005 Type: 90.1-13 Min Boiler, HW, Gas >2500 MBhA Category: Boiler Capacity: Design Energy Rate: 80 Percent efficient
Heating Equipment	Plant: DHW Type: Default electric resistance Category: Electric resistance Capacity: Design Energy Rate: 100 Percent efficient	Plant: DHW Type: Default electric resistance Category: Electric resistance Capacity: Design Energy Rate: 100 Percent efficient
Hot Water Pump		Type: 90.1-13 Min Var Vol HW Pump Full load consumption: 38 Watt/gpm
Thermal Energy Storage	No	Yes
Base Utility	Type: Elevators Description: Elevators Energy Type: Electricity Hourly Consumption: 20.0 kW Schedule: People - Office	Type: Elevators Description: Elevators Energy Type: Electricity Hourly Consumption: 20.0 kW Schedule: People - Office

LEED Energy Performance Summary Report

By MG Engineering D.P.C

Section 1.4 - Comparison of Proposed Design Versus Baseline Design

Input Parameter	Proposed Design Input	Baseline Design Input
Base Utility	Type: Exterior Lighting Description: Exterior Lighting Energy Type: Electricity Hourly Consumption: 0.4 kW Schedule: Lighting-Exterior	Type: Exterior Lighting Description: Exterior Lighting Energy Type: Electricity Hourly Consumption: 0.4 kW Schedule: Lighting-Exterior

Section 1.5 - Energy Type Summary (Proposed)

Energy Type	Utility Rate Description	Units
Electric Consumption	Con Ed SC-09 II	kWh
Electric Demand	Con Ed SC-09 II	kW
Gas	Con Ed SC-09 II	therms

LEED Energy Performance Summary Report

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Section 1.6 Baseline Performance - Performance Rating Method Compliance

End Use	Process	Baseline Design Energy Type	Units of Annual Energy & Peak Demand	Baseline (0 deg rotation)	Baseline (90 deg rotation)	Baseline (180 deg rotation)	Baseline (270 deg rotation)	Baseline Design
Space Heating	No	Electricity	Energy Use (kWh)	55,205	54,864	55,142	55,263	55,118
			Demand (kW)	21.9	21.9	21.9	21.9	21.9
Space Cooling	No	Electricity	Energy Use (kWh)	302,118	307,167	293,725	299,329	300,585
			Demand (kW)	398.9	388.7	378.9	362.9	382.3
Pumps	No	Electricity	Energy Use (kWh)	97,002	100,398	96,493	96,891	97,696
			Demand (kW)	84.9	81.7	81.0	76.1	80.9
Heat Rejection	No	Electricity	Energy Use (kWh)	91,507	97,199	86,517	90,518	91,435
			Demand (kW)	79.0	82.9	75.4	77.5	78.7
Fans - Interior	No	Electricity	Energy Use (kWh)	208,835	208,239	197,531	212,153	206,690
			Demand (kW)	113.5	112.9	124.5	125.6	119.1
Receptacle Equipment	Yes	Electricity	Energy Use (kWh)	122,659	122,659	122,659	122,659	122,659
			Demand (kW)	46.7	46.7	46.7	46.7	46.7
Interior Lighting	No	Electricity	Energy Use (kWh)	583,511	583,511	583,511	583,511	583,511
			Demand (kW)	200.7	200.7	200.7	200.7	200.7
Elevators - Base Utility	Yes	Electricity	Energy Use (kWh)	48,627	48,627	48,627	48,627	48,627
			Demand (kW)	20.0	20.0	20.0	20.0	20.0
Exterior Lighting - Base Utility	No	Electricity	Energy Use (kWh)	2,059	2,059	2,059	2,059	2,059
			Demand (kW)	0.4	0.4	0.4	0.4	0.4
Space Heating	No	Gas	Energy Use (therms)	46,592	48,466	46,515	48,907	47,620
			Demand (therms)	37.6	39.2	35.7	37.8	37.6
Baseline Energy Totals:			Energy Use (MMBtu/yr)	9,818.0	10,050.5	9,724.1	10,047.7	9,910.1
			Process (MMBtu/yr)	584.6	584.6	584.6	584.6	584.6

Section 1.6 Proposed Performance - Performance Rating Method Compliance

End Use	Process	Proposed Design Energy Type	Units of Annual Energy & Peak Demand	Proposed Design
Space Heating	No	Electricity	Energy Use (kWh)	64,823
			Demand (kW)	24.6
Space Cooling	No	Electricity	Energy Use (kWh)	127,810
			Demand (kW)	116.8

LEED Energy Performance Summary Report

By MG Engineering D.P.C

Section 1.6 Proposed Performance - Performance Rating Method Compliance

End Use	Process	Proposed Design Energy Type	Units of Annual Energy & Peak Demand	Proposed Design
Pumps	No	Electricity	Energy Use (kWh)	3,362
			Demand (kW)	3.2
Heat Rejection	No	Electricity	Energy Use (kWh)	7,723
			Demand (kW)	5.3
Fans - Interior	No	Electricity	Energy Use (kWh)	112,586
			Demand (kW)	36.2
Receptacle Equipment	Yes	Electricity	Energy Use (kWh)	122,659
			Demand (kW)	46.7
Interior Lighting	No	Electricity	Energy Use (kWh)	461,571
			Demand (kW)	158.9
Elevators - Base Utility	Yes	Electricity	Energy Use (kWh)	48,627
			Demand (kW)	20.0
Exterior Lighting - Base Utility	No	Electricity	Energy Use (kWh)	2,059
			Demand (kW)	0.4
Space Heating	No	Gas	Energy Use (therms)	34,327
			Demand (therm)	31.8
Proposed Energy Totals:			Energy Use (MMBtu/yr)	6,679.17
			Process (MMBtu/yr)	584.59

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Table 1.6 Table EAp2-9 Energy Cost Summary (Manual Cost Input) - Baseline Case

Energy Type	Baseline Cost (0° rotation)	Baseline Cost (90° rotation)	Baseline Cost (180° rotation)	Baseline Cost (270° rotation)	Average
Electric Consumption	\$836,438	\$851,327	\$818,399	\$836,028	\$835,548
Gas	\$55,700	\$57,932	\$55,608	\$58,456	\$56,924

Table 1.6 Table EAp2-9 Energy Cost Summary (Manual Cost Input) - Proposed Case

Energy Type	Proposed Cost
Electric Consumption	\$413,292
Gas	\$41,102

Proposed building economic cost improvement over baseline building: 49.08 %

MONTHLY ENERGY CONSUMPTION

By MG Engineering D.P.C

----- Monthly Energy Consumption -----

Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Alternative: 1 8981-02-122 5th-Proposed													
Electric													
On-Pk Cons. (kWh)	74,056	67,247	79,549	71,985	81,196	87,938	86,451	98,937	78,465	78,736	75,126	71,527	951,213
On-Pk Demand (kW)	307	312	309	329	347	378	390	408	367	332	325	307	408
Gas													
On-Pk Cons. (therms)	7,173	5,699	6,967	1,948	694	3	0	0	110	1,191	2,721	7,822	34,327
On-Pk Demand (therms/hr)	32	32	28	22	19	3	0	0	5	20	23	31	32
Water													
Cons. (1000gal)	14	18	16	55	103	159	180	216	123	70	45	14	1,013

Energy Consumption		Environmental Impact Analysis	
Building	27,351 Btu/(ft2-year)	CO2	714,846 lbm/year
Source	54,683 Btu/(ft2-year)	SO2	1,965 gm/year
		NOX	742 gm/year
Floor Area	244,205 ft2		

MONTHLY ENERGY CONSUMPTION

By MG Engineering D.P.C

----- Monthly Energy Consumption -----

Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Alternative: 2 Baseline- Appendix CA- NYCECC													
Electric													
On-Pk Cons. (kWh)	89,778	81,636	96,605	99,914	130,923	167,313	180,384	222,531	140,961	113,027	98,272	87,026	1,508,370
On-Pk Demand (kW)	347	376	349	559	590	741	817	900	653	561	548	348	900
Gas													
On-Pk Cons. (therms)	9,943	7,617	9,989	2,212	964	269	232	261	443	1,713	3,292	10,684	47,620
On-Pk Demand (therms/hr)	36	34	32	23	19	3	2	2	6	20	24	38	38
Water													
Cons. (1000gal)	2,018	1,828	2,025	1,804	1,458	1,308	1,336	1,501	1,298	1,725	1,913	2,023	20,236

Energy Consumption		Environmental Impact Analysis	
Building	40,581 Btu/(ft2-year)	CO2	1,135,917 lbm/year
Source	83,776 Btu/(ft2-year)	SO2	3,122 gm/year
		NOX	1,179 gm/year
Floor Area	244,205 ft2		

Performance Rating Details

By MG Engineering D.P.C

Project Name: 8981-02-122 5th		Date: November 09, 2022
City: 122 5th Avenue	Weather Data: New York (LaGuardia), New York	

Performance Rating Method Alternative: Alt-2 Baseline- Appendix CA- NYCECC

		0° Rotation		90° Rotation		180° Rotation		270° Rotation		Average	
		Energy 10^6 Btu/yr	Peak kBtuh	Energy 10^6 Btu/yr	Peak kBtuh	Energy 10^6 Btu/yr	Peak kBtuh	Energy 10^6 Btu/yr	Peak kBtuh	Energy 10^6 Btu/yr	Peak kBtuh
Lighting - Conditioned	Electricity	1,991.5	685	1,991.5	685	1,991.5	685	1,991.5	685	1,991.5	685
Space Heating	Electricity	188.4	75	187.3	75	188.2	75	188.6	75	188.1	75
	Gas	4,659.2	3,759	4,846.6	3,918	4,651.5	3,574	4,890.7	3,777	4,762.0	3,757
Space Cooling	Electricity	1,031.1	1,361	1,048.4	1,327	1,002.5	1,293	1,021.6	1,238	1,025.9	1,305
Pumps	Electricity	331.1	290	342.7	279	329.3	277	330.7	260	333.4	276
Heat Rejection	Electricity	312.3	270	331.7	283	295.3	257	308.9	265	312.1	269
Fans - Conditioned	Electricity	712.8	387	710.7	385	674.2	425	724.1	429	705.4	407
Receptacles - Conditioned	Electricity	418.6	159	418.6	159	418.6	159	418.6	159	418.6	159
Stand-alone Base Utilities	Electricity	173.0	70	173.0	70	173.0	70	173.0	70	173.0	70
Total Building Consumption		9,818.0	7,057	10,050.5	7,181	9,724.1	6,815	10,047.7	6,958	9,910.1	7,003

	0° Rotation	90° Rotation	180° Rotation	270° Rotation	Average
Electric (\$)	\$836,438	\$851,327	\$818,399	\$836,028	\$835,548
Gas (\$)	\$55,700	\$57,932	\$55,608	\$58,456	\$56,924
Total Building Cost (\$)	\$892,137	\$909,259	\$874,007	\$894,484	\$892,472

Location	122 5th Avenue
Building owner	
Program user	
Company	
Comments	
By	MG Engineering D.P.C
Dataset name	C:\TRACE\8981-122 5TH\PAA\11-08-2022-PAA OBJECTIONS\898102-122 5TH.TRC
Calculation time	11:35 AM on 11/09/2022
TRACE® 700 version	6.3.5
Location	New York (LaGuardia), New York
Latitude	41.0 deg
Longitude	74.0 deg
Time Zone	5
Elevation	19 ft
Barometric pressure	29.9 in. Hg
Air density	0.0760 lb/cu ft
Air specific heat	0.2444 Btu/lb·°F
Density-specific heat product	1.1147 Btu/h·cfm·°F
Latent heat factor	4,906.9 Btu·min/h·cu ft
Enthalpy factor	4.5604 lb·min/hr·cu ft
Summer design dry bulb	89.0 °F
Summer design wet bulb	73.0 °F
Winter design dry bulb	15.0 °F
Summer clearness number	0.85
Winter clearness number	0.85
Summer ground reflectance	0.20
Winter ground reflectance	0.20
Carbon Dioxide Level	400 ppm
Design simulation period	January - December
Cooling load methodology	TETD-TA1
Heating load methodology	UATD

