

Appendix D

Energy Performance Based on Preliminary Designs and Regulatory/Policy Compliance

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Use	Bldg C			Bldg D			Bldg E			Bldg F			Fire Station			Total			
	Baseline	Project	w/ Solar	Baseline	Project	w/ Solar	Baseline	Project	w/ Solar	Baseline	Project	w/ Solar	9,000 Baseline	9,000 Project (elect)	w/ Solar	1,297,582 Baseline	1,297,582 Project	w/ Solar	
Electricity																			
Space Cooling	151	245		85	122		97	138		109	155		3	3		445	633		
Fans	1,901	1,995		1,076	1,129		1,223	1,283		1,368	1,435		39	39		5,606	5,881		
Heat Rejection	12	1		7	1		8	1		9	1		0	0		36	4		
Pumps & Misc	108	71		61	40		69	46		78	51		0	0		316	208		
DHW	35	35		20	20		23	23		25	25		1	1		103	103		
Indoor Lighting	798	81		451	46		513	52		574	58		16	16		2,353	254		
Receptacles	1,626	1,626		920	920		1,046	1,046		1,170	1,170		33	33		4,795	4,795		
	4,631	4,024	2,868 (1,156)	2,620	2,278	1,623 (655)	2,979	2,588	1,844 (745)	3,332	2,895	2,062 (833)	93	93	70 (23)	13,654	11,878	8,466	
solar	417	417	417	236	236	236	268	268	268	300	300	300			1,221	1,221	1,221		
Natural Gas—Space Heating																			
MWh	9,170	9,202	9,202	5,189	5,207	5,207	5,898	5,918	5,918	6,598	6,621	6,621	188	56	56	26,855	27,005	27,005	
therms	312,972	314,056	314,064	177,117	177,727	177,727	201,298	201,995	201,995	225,185	225,965	225,965	6,402	0	0	922,974	919,743	919,743	
Total MWh/yr	14,218	13,643	12,487	8,045	7,721	7,066	9,145	8,775	8,030	10,230	9,816	8,983	280	149	126	41,638	39,955	39,955	
electricity (MWh)	5,048	4,441	3,285	2,856	2,514	1,859	3,247	2,856	2,112	3,632	3,195	2,362	93	149	126	14,783	13,156	9,744	
gas (therms)	312,972	314,056	314,064	177,117	177,727	177,727	201,298	201,995	201,995	225,185	225,965	225,965	6,402	0	0	916,572	919,743	919,751	
MMBTU																			
electricity	17,224	15,153	11,209	9,745	8,578	6,343	11,078	9,746	7,206	12,393	10,903	8,061	317	508	430	50,441	44,889	33,248	
gas	31,297	31,406	31,406	17,712	17,773	17,773	20,130	20,200	20,200	22,518	22,596	22,596	640	0	0	91,657	91,974	91,975	
Percent of Title 24 Baseline	48,522	46,559	42,615 88%	27,457	26,351 96%	24,116 88%	31,208	29,946 96%	27,405 88%	34,912	33,499 96%	30,657 88%	957	508 53%	430 45%	142,098	136,863 96%	125,223 88%	
Space Heating	9,076	9,108	94	5,154	5,207	53	5,858	5,918	61	6,553	6,621	68		149	49	26,673	27,097		
therms to Mwh addtl Mwh elec	94	94	94	53	53	53	61	61	61	68	68	68				425	425		
Mwh electricity	4,535	4,535	3,379	2,567	2,567	1,912	2,917	2,917	2,173	3,263	2,430	2,430	242	242	119	13,041	13,041	10,013	
T24 electricity	4,118	4,118	2,962	2,331	2,331	1,676	2,649	2,649	1,905	2,963	2,130	2,130	242	242	119	12,303	12,303	8,792	
non-T24 electricity	417	417	417	236	236	236	268	268	268	300	300	300				1,221	1,221	1,221	