ENERGY SAVING SOLUTIONS FOR CHILLER PLANT

Project Reference: EQUATORIAL INTERNATIONAL FIVE STARS HOTEL, VIETNAM

Background

Equatorial hotel has been in Vietnam since 1995, one of leading hotels who is very
interested in energy saving. Following the purpose, there are a lot of outlined solutions from consultants for chiller plant sent to the Owner but still don't get the acceptance

Problem

Trane Chiller has play the role with around 4.5 of COP, non-VFD for chilled water pump system, condenser water pump system, and cooling tower system.
2,112,000 kWh/year for chiller plant next to annual maintenance cost is very high.

Project Scope

The optimum solution was determined to be installation of SMARDT oil free – high efficiency chiller and CPECS solution for chilled water pump system, condenser water pump system, cooling tower system as a Turnkey Solution for chiller plant. 30% of saving was expected.

Outcomes

The revolutionary of energy saving has came to Equatorial hotel, just only around 67,830 kWh/month of chiller plant consumption at 4 first months

Main items	Amazing numbers
Annual energy saving	1,307,520 kWh
Energy saving percent of chiller plant	61%
Pay back time	1.7



Equatorial hotel info:
Standard: international 05 stars hotel
Operated from: 1995
CE: Mr. Chan Kum Yuen
Add: 242, Tran Binh Trong street, district 5, HCMC, Vietnam





Technical consultant for energy saving solution of chiller Plant

TƯ VẤN GIẢI PHÁP KỸ THUẬT TIẾT KIỆM NĂNG LƯỢNG CHO HỆ THỐNG CHILLER

CONSULTANT
0907 033 330

APC INDUSTRY CORPORATION

ISO 9001:2015

Recorded at: Equatorial 5 stars Hotel
Chiller: SMARDT Oil Free - High Effciency Chiller
Capacity: 450RT
Number of Compressor: Four (04)

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 8:44	3	158.08	1112.146	95.6	7.035	0.500
9/4/2014 8:44	3	157.092	1118.474	96.1	7.120	0.494
9/4/2014 8:43	3	155.857	1113.728	95.7	7.146	0.492
9/4/2014 8:43	3	156.351	1116.892	96	7.143	0.492
9/4/2014 8:42	3	155.363	1118.474	96.1	7.199	0.489
9/4/2014 8:42	3	154.869	1085.252	95.9	7.008	0.502
9/4/2014 8:41	3	152.646	1085.252	96	7.110	0.495
9/4/2014 8:41	3	148.941	1058.358	96.1	7.106	0.495
9/4/2014 8:40	3	144.989	1083.67	95.7	7.474	0.471
9/4/2014 8:40	3	143.013	1053.612	95.7	7.367	0.477
9/4/2014 8:39	3	141.284	1058.358	96.1	7.491	0.469
9/4/2014 8:39	3	139.802	1026.718	96	7.344	0.479
9/4/2014 8:38	3	139.802	1028.3	96.1	7.355	0.478
9/4/2014 8:38	3	140.296	1028.3	96.1	7.330	0.480
9/4/2014 8:37	3	139.802	1026.718	96	7.344	0.479
9/4/2014 8:37	3	140.296	1029.882	96.4	7.341	0.479
9/4/2014 8:36	3	141.284	1028.3	96.1	7.278	0.483
9/4/2014 8:36	3	141.037	1031.464	96.5	7.313	0.481
9/4/2014 8:35	3	141.284	1029.882	96.4	7.289	0.482
9/4/2014 8:35	3	140.543	1029.882	96.4	7.328	0.480
9/4/2014 8:34	3	140.296	1029.882	96.4	7.341	0.479
9/4/2014 8:34	3	141.284	1029.882	96.4	7.289	0.482
9/4/2014 8:33	3	141.037	1031.464	96.5	7.313	0.481
9/4/2014 8:33	3	139.061	1031.464	96.5	7.417	0.474
9/4/2014 8:32	3	137.826	1028.3	96.1	7.461	0.471
9/4/2014 8:32	3	137.332	1028.3	96.1	7.488	0.470
9/4/2014 8:31	3	135.85	1002.988	96.7	7.383	0.476
9/4/2014 8:31	3	136.838	999.824	96.4	7.307	0.481
9/4/2014 8:30	3	137.579	996.66	96.1	7.244	0.485
9/4/2014 8:30	3	138.32	999.824	96.4	7.228	0.487
9/4/2014 8:29	3	138.073	996.66	96.1	7.218	0.487
9/4/2014 8:29	3	135.603	966.602	96.1	7.128	0.493
9/4/2014 8:28	3	134.368	966.602	96.1	7.194	0.489
9/4/2014 8:28	3	129.181	936.544	96.1	7.250	0.485
9/4/2014 8:27	3	125.229	966.602	96.1	7.719	0.456
9/4/2014 8:27	3	126.217	996.66	96.1	7.896	0.445
9/4/2014 8:26	3	128.193	1028.3	96.1	8.021	0.438
9/4/2014 8:26	3	132.886	1028.3	96.1	7.738	0.454
9/4/2014 8:25	3	138.567	1061.522	96.4	7.661	0.459
9/4/2014 8:25	3	141.778	1058.358	96.1	7.465	0.471
9/4/2014 8:24	3	141.284	1061.522	96.4	7.513	0.468
9/4/2014 8:24	3	141.778	1064.686	96.7	7.510	0.468
9/4/2014 8:23	3	142.272	1058.358	96.1	7.439	0.473
9/4/2014 8:23	3	143.507	1061.522	96.4	7.397	0.475
9/4/2014 8:22	3	143.26	1061.522	96.4	7.410	0.475
9/4/2014 8:22	3	142.766	1056.776	96	7.402	0.475
9/4/2014 8:21	3	142.766	1061.522	96.4	7.435	0.473
9/4/2014 8:21	3	144.495	1061.522	96.5	7.346	0.479
9/4/2014 8:20	3	144.495	1061.522	96.5	7.346	0.479
9/4/2014 8:20	3	144.248	1025.136	95.9	7.107	0.495
9/4/2014 8:19	3	144.495	1056.776	96	7.314	0.481
9/4/2014 8:19	3	144.248	1091.58	96.5	7.567	0.465
9/4/2014 8:18	3	145.483	1085.252	96	7.460	0.471
9/4/2014 8:18	3	146.224	1061.522	96.4	7.260	0.484
9/4/2014 8:17	3	145.73	1061.522	96.4	7.284	0.483

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 8:17	3	145.483	1061.522	96.5	7.297	0.482
9/4/2014 8:16	3	144.989	1061.522	96.4	7.321	0.480
9/4/2014 8:16	3	144.495	1058.358	96.1	7.325	0.480
9/4/2014 8:15	3	144.248	1058.358	96.1	7.337	0.479
9/4/2014 8:15	3	144.001	1061.522	96.4	7.372	0.477
9/4/2014 8:14	3	144.248	1061.522	96.4	7.359	0.478
9/4/2014 8:14	3	143.754	1056.776	96	7.351	0.478
9/4/2014 8:13	3	143.013	1056.776	96	7.389	0.476
9/4/2014 8:13	3	143.507	1058.358	96.1	7.375	0.477
9/4/2014 8:12	3	145.236	1058.358	96.1	7.287	0.483
9/4/2014 8:12	3	143.754	1058.358	96.1	7.362	0.478
9/4/2014 8:11	3	143.26	1031.464	96.5	7.200	0.488
9/4/2014 8:11	3	142.272	1028.3	96.1	7.228	0.487
9/4/2014 8:10	3	141.284	1025.136	95.9	7.256	0.485
9/4/2014 8:10	3	142.025	1028.3	96.1	7.240	0.486
9/4/2014 8:09	3	140.049	1028.3	96.1	7.342	0.479
9/4/2014 8:09	3	139.061	1025.136	95.9	7.372	0.477
9/4/2014 8:08	3	138.32	1028.3	96.1	7.434	0.473
9/4/2014 8:08	3	137.579	1025.136	95.9	7.451	0.472
9/4/2014 8:07	3	136.591	1025.136	95.9	7.505	0.469
9/4/2014 8:07	3	136.097	1026.718	96	7.544	0.466
9/4/2014 8:06	3	135.356	1026.718	96	7.585	0.464
9/4/2014 8:06	3	133.38	1023.554	95.7	7.674	0.458
9/4/2014 8:05	3	133.133	1028.3	96.1	7.724	0.455
9/4/2014 8:05	3	131.898	996.66	96	7.556	0.465
9/4/2014 8:04	3	131.157	996.66	96.1	7.599	0.463
9/4/2014 8:04	3	129.922	991.914	95.6	7.635	0.461
9/4/2014 8:03	3	129.428	963.438	95.7	7.444	0.472
9/4/2014 8:03	3	128.687	966.602	96	7.511	0.468
9/4/2014 8:02	3	125.723	993.496	95.7	7.902	0.445
9/4/2014 8:02	3	123.5	961.856	95.6	7.788	0.452
9/4/2014 8:01	3	120.783	961.856	95.6	7.964	0.442
9/4/2014 8:01	3	118.807	930.216	95.5	7.830	0.449
9/4/2014 8:00	3	117.325	931.798	95.6	7.942	0.443
9/4/2014 8:00	3	114.608	901.74	95.6	7.868	0.447
9/4/2014 7:59	3	112.632	900.158	95.5	7.992	0.440
9/4/2014 7:59	3	110.409	898.576	95.2	8.139	0.432
9/4/2014 7:58	3	109.174	893.83	94.8	8.187	0.430
9/4/2014 7:58	3	108.927	892.248	94.5	8.191	0.429
9/4/2014 7:57	3	108.186	857.444	94.1	7.926	0.444
9/4/2014 7:57	3	106.951	862.19	94.5	8.062	0.436
9/4/2014 7:56	3	107.198	854.28	93.8	7.969	0.441
9/4/2014 7:56	3	108.186	852.698	93.5	7.882	0.446
9/4/2014 7:55	3	107.445	852.698	93.6	7.936	0.443
9/4/2014 7:55	3	107.445	854.28	93.8	7.951	0.442
9/4/2014 7:54	3	106.704	851.116	93.4	7.976	0.441
9/4/2014 7:54	3	106.21	849.534	93.2	7.999	0.440
9/4/2014 7:53	3	105.716	879.592	93.2	8.320	0.423
9/4/2014 7:53	3	105.963	879.592	93.2	8.301	0.424
9/4/2014 7:52	3	106.704	882.756	93.5	8.273	0.425
9/4/2014 7:52	3	107.445	879.592	93.2	8.186	0.430
9/4/2014 7:51	3	107.198	851.116	93.4	7.940	0.443
9/4/2014 7:51	3	107.198	879.592	93.2	8.205	0.429
9/4/2014 7:50	3	107.692	874.846	92.8	8.124	0.433
9/4/2014 7:50	3	107.198	849.534	93.1	7.925	0.444
9/4/2014 7:49	3	106.951	874.846	92.8	8.180	0.430
9/4/2014 7:49	3	106.704	874.846	92.8	8.199	0.429
9/4/2014 7:48	3	106.21	873.264	92.7	8.222	0.428
9/4/2014 7:48	3	106.21	874.846	92.8	8.237	0.427
9/4/2014 7:47	3	106.21	874.846	92.8	8.237	0.427
9/4/2014 7:47	3	106.951	874.846	92.8	8.180	0.430
9/4/2014 7:46	3	108.68	874.846	92.8	8.050	0.437
9/4/2014 7:46	3	108.186	879.592	93.2	8.130	0.433
9/4/2014 7:45	3	107.445	901.74	92.6	8.393	0.419

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 7:45	3	107.939	903.322	92.8	8.369	0.420
9/4/2014 7:44	3	108.186	906.486	93.1	8.379	0.420
9/4/2014 7:44	3	108.186	874.846	92.8	8.086	0.435
9/4/2014 7:43	3	108.68	878.01	93.1	8.079	0.435
9/4/2014 7:43	3	106.704	873.264	92.7	8.184	0.430
9/4/2014 7:42	3	104.975	903.322	92.8	8.605	0.409
9/4/2014 7:42	3	108.927	903.322	92.8	8.293	0.424
9/4/2014 7:41	3	112.632	908.068	93.2	8.062	0.436
9/4/2014 7:41	3	113.867	849.534	93.1	7.461	0.471
9/4/2014 7:40	3	105.222	878.01	93.1	8.344	0.421
9/4/2014 7:40	3	105.963	942.872	96.8	8.898	0.395
9/4/2014 7:39	3	105.716	890.666	91.4	8.425	0.417
9/4/2014 7:39	3	106.21	863.772	91.6	8.133	0.432
9/4/2014 7:38	3	105.716	860.608	91.4	8.141	0.432
9/4/2014 7:38	3	105.716	892.248	91.6	8.440	0.417
9/4/2014 7:37	3	106.21	887.502	91.1	8.356	0.421
9/4/2014 7:37	3	106.457	889.084	91.2	8.352	0.421
9/4/2014 7:36	3	108.433	860.608	91.4	7.937	0.443
9/4/2014 7:36	3	107.198	860.608	91.4	8.028	0.438
9/4/2014 7:35	3	105.716	859.026	91.1	8.126	0.433
9/4/2014 7:35	3	105.963	859.026	91.1	8.107	0.434
9/4/2014 7:34	3	105.716	866.936	91.9	8.201	0.429
9/4/2014 7:34	3	105.716	863.772	91.6	8.171	0.430
9/4/2014 7:33	3	105.469	860.608	91.4	8.160	0.431
9/4/2014 7:33	3	105.469	865.354	91.8	8.205	0.429
9/4/2014 7:32	3	105.222	860.608	91.4	8.179	0.430
9/4/2014 7:32	3	105.222	863.772	91.6	8.209	0.428
9/4/2014 7:31	3	105.716	860.608	91.4	8.141	0.432
9/4/2014 7:31	3	105.469	860.608	91.4	8.160	0.431
9/4/2014 7:30	3	105.222	860.608	91.4	8.179	0.430
9/4/2014 7:30	3	104.975	868.518	92.2	8.274	0.425
9/4/2014 7:29	3	104.481	863.772	91.6	8.267	0.425
9/4/2014 7:29	3	104.975	860.608	91.4	8.198	0.429
9/4/2014 7:28	3	105.222	857.444	91	8.149	0.432
9/4/2014 7:28	3	104.481	860.608	91.2	8.237	0.427
9/4/2014 7:27	3	104.481	859.026	91.1	8.222	0.428
9/4/2014 7:27	3	105.222	833.714	91.4	7.923	0.444
9/4/2014 7:26	3	106.21	835.296	91.6	7.865	0.447
9/4/2014 7:26	3	104.481	835.296	91.6	7.995	0.440
9/4/2014 7:25	3	104.234	833.714	91.4	7.998	0.440
9/4/2014 7:25	3	104.481	835.296	91.8	7.995	0.440
9/4/2014 7:24	3	104.481	835.296	91.8	7.995	0.440
9/4/2014 7:24	3	104.481	832.132	91.2	7.964	0.442
9/4/2014 7:23	3	104.481	835.296	91.6	7.995	0.440
9/4/2014 7:23	3	104.728	833.714	91.4	7.961	0.442
9/4/2014 7:22	3	104.481	833.714	91.4	7.980	0.441
9/4/2014 7:22	3	103.987	833.714	91.4	8.017	0.439
9/4/2014 7:21	3	104.728	833.714	91.4	7.961	0.442
9/4/2014 7:21	3	104.481	833.714	91.4	7.980	0.441
9/4/2014 7:20	3	102.752	830.55	91.1	8.083	0.435
9/4/2014 7:20	3	102.999	833.714	91.4	8.094	0.434
9/4/2014 7:19	3	103.246	833.714	91.4	8.075	0.436
9/4/2014 7:19	3	103.493	835.296	91.6	8.071	0.436
9/4/2014 7:18	3	102.752	833.714	91.4	8.114	0.433
9/4/2014 7:18	3	103.246	859.026	91.1	8.320	0.423
9/4/2014 7:17	3	102.505	860.608	91.2	8.396	0.419
9/4/2014 7:17	3	103.493	860.608	91.4	8.316	0.423
9/4/2014 7:16	3	102.752	860.608	91.2	8.376	0.420
9/4/2014 7:16	3	102.011	835.296	91.8	8.188	0.430
9/4/2014 7:15	3	103.74	832.132	91.2	8.021	0.438
9/4/2014 7:15	3	102.999	832.132	91.2	8.079	0.435
9/4/2014 7:14	3	102.505	833.714	91.4	8.133	0.432
9/4/2014 7:14	3	103.493	832.132	91.2	8.040	0.437
9/4/2014 7:13	3	103.493	833.714	91.4	8.056	0.437

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 7:13	3	102.258	833.714	91.4	8.153	0.431
9/4/2014 7:12	3	102.999	835.296	91.8	8.110	0.434
9/4/2014 7:12	3	103.493	833.714	91.4	8.056	0.437
9/4/2014 7:11	3	103.493	860.608	91.2	8.316	0.423
9/4/2014 7:11	3	104.481	860.608	91.4	8.237	0.427
9/4/2014 7:10	3	103.987	866.936	91.9	8.337	0.422
9/4/2014 7:10	3	105.469	860.608	91.4	8.160	0.431
9/4/2014 7:09	3	105.963	865.354	91.8	8.167	0.431
9/4/2014 7:09	3	106.21	863.772	91.6	8.133	0.432
9/4/2014 7:08	3	107.198	863.772	91.6	8.058	0.436
9/4/2014 7:08	3	107.198	892.248	91.6	8.323	0.423
9/4/2014 7:07	3	108.68	892.248	91.6	8.210	0.428
9/4/2014 7:07	3	110.409	892.248	91.6	8.081	0.435
9/4/2014 7:06	3	111.15	890.666	91.4	8.013	0.439
9/4/2014 7:06	3	112.385	922.306	91.8	8.207	0.429
9/4/2014 7:05	3	113.867	922.306	91.8	8.100	0.434
9/4/2014 7:05	3	115.102	922.306	91.6	8.013	0.439
9/4/2014 7:04	3	117.819	947.618	91.4	8.043	0.437
9/4/2014 7:04	3	119.795	947.618	91.4	7.910	0.445
9/4/2014 7:03	3	120.536	952.364	91.8	7.901	0.445
9/4/2014 7:03	3	120.536	1009.316	91.8	8.374	0.420
9/4/2014 7:02	3	126.958	1034.628	91.4	8.149	0.432
9/4/2014 7:02	3	132.886	1037.792	91.8	7.810	0.450
9/4/2014 7:01	3	136.097	1004.57	91.4	7.381	0.476
9/4/2014 7:01	3	135.85	1037.792	91.8	7.639	0.460
9/4/2014 7:00	3	134.862	1037.792	91.8	7.695	0.457
9/4/2014 7:00	3	133.874	1034.628	91.4	7.728	0.455
9/4/2014 6:59	3	133.874	1004.57	91.4	7.504	0.469
9/4/2014 6:59	3	134.368	1037.792	91.8	7.724	0.455
9/4/2014 6:58	3	135.85	1037.792	91.8	7.639	0.460
9/4/2014 6:58	3	137.826	1037.792	91.8	7.530	0.467
9/4/2014 6:57	3	134.862	1004.57	91.4	7.449	0.472
9/4/2014 6:57	3	132.886	1004.57	91.4	7.560	0.465
9/4/2014 6:56	3	131.404	1004.57	91.4	7.645	0.460
9/4/2014 6:56	3	129.181	1004.57	91.2	7.776	0.452
9/4/2014 6:55	3	126.958	976.094	91.4	7.688	0.457
9/4/2014 6:55	3	123.747	950.782	91.6	7.683	0.458
9/4/2014 6:54	3	120.289	950.782	91.6	7.904	0.445
9/4/2014 6:54	3	119.795	947.618	91.4	7.910	0.445
9/4/2014 6:53	3	123.747	915.978	91.1	7.402	0.475
9/4/2014 6:53	3	124.488	833.714	91.4	6.697	0.525
9/4/2014 6:52	3	118.807	778.344	91.8	6.551	0.537
9/4/2014 6:52	3	111.15	746.704	91.4	6.718	0.524
9/4/2014 6:51	3	97.318	805.238	91.6	8.274	0.425
9/4/2014 6:51	3	98.8	832.132	91.2	8.422	0.418
9/4/2014 6:50	3	105.469	832.132	91.2	7.890	0.446
9/4/2014 6:50	2	104.975	805.238	91.6	7.671	0.458
9/4/2014 6:49	2	104.234	805.238	91.6	7.725	0.455
9/4/2014 6:49	2	102.258	803.656	91.4	7.859	0.448
9/4/2014 6:48	2	101.023	803.656	91.4	7.955	0.442
9/4/2014 6:48	2	100.282	803.656	91.2	8.014	0.439
9/4/2014 6:47	2	98.059	803.656	91.4	8.196	0.429
9/4/2014 6:47	2	95.836	778.344	91.8	8.122	0.433
9/4/2014 6:46	2	94.848	778.344	91.6	8.206	0.429
9/4/2014 6:46	2	92.872	775.18	91.4	8.347	0.421
9/4/2014 6:45	2	91.637	773.598	91.1	8.442	0.417
9/4/2014 6:45	2	90.896	775.18	91.4	8.528	0.412
9/4/2014 6:44	2	89.167	746.704	91.4	8.374	0.420
9/4/2014 6:44	2	87.685	749.868	91.8	8.552	0.411
9/4/2014 6:43	2	85.215	719.81	91.6	8.447	0.416
9/4/2014 6:43	2	81.016	718.228	91.4	8.865	0.397
9/4/2014 6:42	2	78.546	716.646	91.2	9.124	0.385
9/4/2014 6:42	2	78.793	716.646	91.2	9.095	0.387
9/4/2014 6:41	2	79.534	688.17	91.2	8.653	0.406

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 6:41	2	79.534	689.752	91.4	8.672	0.406
9/4/2014 6:40	2	79.534	686.588	91.1	8.633	0.407
9/4/2014 6:40	2	79.781	688.17	91.2	8.626	0.408
9/4/2014 6:39	2	79.534	718.228	91.4	9.030	0.389
9/4/2014 6:39	2	79.287	718.228	91.4	9.059	0.388
9/4/2014 6:38	2	79.534	713.482	90.7	8.971	0.392
9/4/2014 6:38	2	79.534	713.482	90.7	8.971	0.392
9/4/2014 6:37	2	79.781	716.646	91.1	8.983	0.392
9/4/2014 6:37	2	79.781	715.064	91	8.963	0.392
9/4/2014 6:36	2	79.534	713.482	90.7	8.971	0.392
9/4/2014 6:36	2	79.781	713.482	90.8	8.943	0.393
9/4/2014 6:35	2	80.522	713.482	90.7	8.861	0.397
9/4/2014 6:35	2	80.522	713.482	90.7	8.861	0.397
9/4/2014 6:34	2	80.769	716.646	91.1	8.873	0.396
9/4/2014 6:34	2	80.522	680.26	90.3	8.448	0.416
9/4/2014 6:33	2	80.522	681.842	90.4	8.468	0.415
9/4/2014 6:33	2	80.769	680.26	90.3	8.422	0.418
9/4/2014 6:32	2	80.275	683.424	90.7	8.514	0.413
9/4/2014 6:32	2	80.275	710.318	90.4	8.849	0.397
9/4/2014 6:31	2	81.016	713.482	90.7	8.807	0.399
9/4/2014 6:31	2	80.522	713.482	90.7	8.861	0.397
9/4/2014 6:30	2	80.769	683.424	90.7	8.461	0.416
9/4/2014 6:30	2	80.769	683.424	90.7	8.461	0.416
9/4/2014 6:29	2	80.522	686.588	91	8.527	0.412
9/4/2014 6:29	2	81.016	685.006	90.8	8.455	0.416
9/4/2014 6:28	2	80.522	685.006	90.8	8.507	0.413
9/4/2014 6:28	2	80.522	685.006	90.8	8.507	0.413
9/4/2014 6:27	2	80.522	685.006	90.8	8.507	0.413
9/4/2014 6:27	2	80.769	683.424	90.7	8.461	0.416
9/4/2014 6:26	2	80.522	685.006	90.8	8.507	0.413
9/4/2014 6:26	2	80.522	686.588	91	8.527	0.412
9/4/2014 6:25	2	80.275	688.17	91.2	8.573	0.410
9/4/2014 6:25	2	80.275	683.424	90.7	8.514	0.413
9/4/2014 6:24	2	80.275	688.17	91.2	8.573	0.410
9/4/2014 6:24	2	80.522	688.17	91.2	8.546	0.412
9/4/2014 6:23	2	80.028	683.424	90.7	8.540	0.412
9/4/2014 6:23	2	80.028	686.588	91	8.579	0.410
9/4/2014 6:22	2	80.028	686.588	91.1	8.579	0.410
9/4/2014 6:22	2	80.275	686.588	91	8.553	0.411
9/4/2014 6:21	2	80.769	681.842	90.4	8.442	0.417
9/4/2014 6:21	2	80.522	680.26	90.3	8.448	0.416
9/4/2014 6:20	2	80.028	681.842	90.4	8.520	0.413
9/4/2014 6:20	2	79.781	683.424	90.7	8.566	0.411
9/4/2014 6:19	2	79.287	685.006	90.8	8.640	0.407
9/4/2014 6:19	2	80.028	685.006	90.8	8.560	0.411
9/4/2014 6:18	2	80.028	685.006	90.8	8.560	0.411
9/4/2014 6:18	2	80.028	683.424	90.7	8.540	0.412
9/4/2014 6:17	2	79.534	683.424	90.7	8.593	0.409
9/4/2014 6:17	2	79.287	680.26	90.3	8.580	0.410
9/4/2014 6:16	2	79.534	686.588	91	8.633	0.407
9/4/2014 6:16	2	79.534	683.424	90.7	8.593	0.409
9/4/2014 6:15	2	79.287	683.424	90.7	8.620	0.408
9/4/2014 6:15	2	79.287	681.842	90.4	8.600	0.409
9/4/2014 6:14	2	78.793	683.424	90.7	8.674	0.405
9/4/2014 6:14	2	78.299	683.424	90.7	8.728	0.403
9/4/2014 6:13	2	78.546	683.424	90.7	8.701	0.404
9/4/2014 6:13	2	77.558	686.588	91	8.853	0.397
9/4/2014 6:12	2	77.311	681.842	90.4	8.819	0.399
9/4/2014 6:12	2	76.817	680.26	90.3	8.856	0.397
9/4/2014 6:11	2	76.57	681.842	90.4	8.905	0.395
9/4/2014 6:11	2	76.817	683.424	90.7	8.897	0.395
9/4/2014 6:10	2	76.817	683.424	90.7	8.897	0.395
9/4/2014 6:10	2	77.064	683.424	90.7	8.868	0.397
9/4/2014 6:09	2	76.817	680.26	90.3	8.856	0.397

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 6:09	2	76.817	681.842	90.4	8.876	0.396
9/4/2014 6:08	2	76.076	680.26	90.3	8.942	0.393
9/4/2014 6:08	2	75.829	680.26	90.2	8.971	0.392
9/4/2014 6:07	2	76.076	678.678	89.9	8.921	0.394
9/4/2014 6:07	2	76.817	680.26	90.2	8.856	0.397
9/4/2014 6:06	2	76.817	680.26	90.2	8.856	0.397
9/4/2014 6:06	2	76.076	680.26	90.2	8.942	0.393
9/4/2014 6:05	2	75.829	680.26	90.2	8.971	0.392
9/4/2014 6:05	2	75.582	680.26	90.3	9.000	0.391
9/4/2014 6:04	2	75.335	678.678	89.9	9.009	0.390
9/4/2014 6:04	2	74.841	680.26	90.3	9.089	0.387
9/4/2014 6:03	2	74.841	680.26	90.3	9.089	0.387
9/4/2014 6:03	2	74.594	680.26	90.2	9.120	0.386
9/4/2014 6:02	2	74.347	677.096	89.8	9.107	0.386
9/4/2014 6:02	2	74.347	678.678	89.9	9.129	0.385
9/4/2014 6:01	2	74.1	650.202	89.9	8.775	0.401
9/4/2014 6:01	2	74.1	650.202	89.9	8.775	0.401
9/4/2014 6:00	2	73.359	648.62	89.8	8.842	0.398
9/4/2014 6:00	2	73.853	650.202	89.9	8.804	0.399
9/4/2014 5:59	2	73.853	653.366	90.3	8.847	0.398
9/4/2014 5:59	2	73.112	651.784	90.2	8.915	0.395
9/4/2014 5:58	2	73.112	648.62	89.8	8.872	0.396
9/4/2014 5:58	2	72.865	651.784	90.2	8.945	0.393
9/4/2014 5:57	2	72.618	645.456	89.4	8.888	0.396
9/4/2014 5:57	2	72.865	647.038	89.5	8.880	0.396
9/4/2014 5:56	2	72.865	647.038	89.5	8.880	0.396
9/4/2014 5:56	2	72.371	645.456	89.2	8.919	0.394
9/4/2014 5:55	2	72.618	645.456	89.4	8.888	0.396
9/4/2014 5:55	2	72.371	645.456	89.2	8.919	0.394
9/4/2014 5:54	2	72.618	645.456	89.2	8.888	0.396
9/4/2014 5:54	2	72.124	645.456	89.4	8.949	0.393
9/4/2014 5:53	2	71.63	647.038	89.5	9.033	0.389
9/4/2014 5:53	2	71.383	645.456	89.4	9.042	0.389
9/4/2014 5:52	2	71.383	647.038	89.5	9.064	0.388
9/4/2014 5:52	2	71.136	648.62	89.6	9.118	0.386
9/4/2014 5:51	2	70.889	647.038	89.5	9.127	0.385
9/4/2014 5:51	2	70.148	645.456	89.2	9.201	0.382
9/4/2014 5:50	2	70.148	647.038	89.5	9.224	0.381
9/4/2014 5:50	2	70.395	645.456	89.4	9.169	0.384
9/4/2014 5:49	2	69.901	645.456	89.4	9.234	0.381
9/4/2014 5:49	2	69.654	645.456	89.2	9.267	0.380
9/4/2014 5:48	2	69.654	645.456	89.2	9.267	0.380
9/4/2014 5:48	2	69.16	647.038	89.5	9.356	0.376
9/4/2014 5:47	2	68.419	620.144	89.6	9.064	0.388
9/4/2014 5:47	2	68.913	621.726	89.8	9.022	0.390
9/4/2014 5:46	2	68.913	616.98	89.2	8.953	0.393
9/4/2014 5:46	2	68.172	616.98	89.2	9.050	0.389
9/4/2014 5:45	2	68.172	618.562	89.4	9.074	0.388
9/4/2014 5:45	2	67.925	616.98	89.2	9.083	0.387
9/4/2014 5:44	2	68.419	616.98	89.2	9.018	0.390
9/4/2014 5:44	2	68.419	616.98	89.2	9.018	0.390
9/4/2014 5:43	2	68.172	618.562	89.5	9.074	0.388
9/4/2014 5:43	2	68.419	615.398	89.1	8.995	0.391
9/4/2014 5:42	2	67.431	620.144	89.6	9.197	0.382
9/4/2014 5:42	2	67.678	591.668	89.5	8.742	0.402
9/4/2014 5:41	2	66.937	615.398	89.1	9.194	0.383
9/4/2014 5:41	2	66.443	616.98	89.2	9.286	0.379
9/4/2014 5:40	2	66.937	618.562	89.4	9.241	0.381
9/4/2014 5:40	2	66.443	620.144	89.6	9.333	0.377
9/4/2014 5:39	2	66.443	590.086	89.4	8.881	0.396
9/4/2014 5:39	2	67.925	618.562	89.4	9.107	0.386
9/4/2014 5:38	2	67.678	621.726	89.9	9.187	0.383
9/4/2014 5:38	2	67.431	616.98	89.2	9.150	0.384
9/4/2014 5:37	2	67.925	618.562	89.5	9.107	0.386

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 5:37	2	68.666	621.726	89.8	9.054	0.388
9/4/2014 5:36	2	68.419	620.144	89.6	9.064	0.388
9/4/2014 5:36	2	68.666	647.038	89.5	9.423	0.373
9/4/2014 5:35	2	69.654	648.62	89.6	9.312	0.378
9/4/2014 5:35	2	70.148	645.456	89.4	9.201	0.382
9/4/2014 5:34	2	71.63	645.456	89.4	9.011	0.390
9/4/2014 5:34	2	71.877	645.456	89.4	8.980	0.392
9/4/2014 5:33	2	72.618	677.096	89.8	9.324	0.377
9/4/2014 5:33	2	73.606	675.514	89.5	9.177	0.383
9/4/2014 5:32	2	74.1	675.514	89.5	9.116	0.386
9/4/2014 5:32	2	75.829	675.514	89.5	8.908	0.395
9/4/2014 5:31	2	77.558	675.514	89.5	8.710	0.404
9/4/2014 5:31	2	78.546	705.572	89.8	8.983	0.392
9/4/2014 5:30	2	80.028	702.408	89.5	8.777	0.401
9/4/2014 5:30	2	81.51	702.408	89.5	8.617	0.408
9/4/2014 5:29	2	83.733	729.302	89.2	8.710	0.404
9/4/2014 5:29	2	85.215	729.302	89.4	8.558	0.411
9/4/2014 5:28	2	87.191	757.778	89.2	8.691	0.405
9/4/2014 5:28	2	91.884	787.836	89.5	8.574	0.410
9/4/2014 5:27	2	96.083	816.312	89.5	8.496	0.414
9/4/2014 5:27	2	100.776	844.788	89.5	8.383	0.420
9/4/2014 5:26	2	105.222	871.682	89.4	8.284	0.425
9/4/2014 5:26	2	108.68	901.74	89.6	8.297	0.424
9/4/2014 5:25	2	114.855	928.634	89.5	8.085	0.435
9/4/2014 5:25	2	119.548	958.692	89.6	8.019	0.439
9/4/2014 5:24	2	126.464	985.586	89.5	7.793	0.451
9/4/2014 5:24	2	133.133	1010.898	89.4	7.593	0.463
9/4/2014 5:23	2	139.802	1010.898	89.4	7.231	0.486
9/4/2014 5:23	2	144.742	1014.062	89.6	7.006	0.502
9/4/2014 5:22	2	144.495	1012.48	89.5	7.007	0.502
9/4/2014 5:22	2	141.037	985.586	89.6	6.988	0.503
9/4/2014 5:21	2	140.049	982.422	89.2	7.015	0.501
9/4/2014 5:21	2	136.344	955.528	89.5	7.008	0.502
9/4/2014 5:20	2	134.368	955.528	89.5	7.111	0.495
9/4/2014 5:20	2	131.404	930.216	89.6	7.079	0.497
9/4/2014 5:19	2	128.193	928.634	89.5	7.244	0.486
9/4/2014 5:19	2	126.464	922.306	89	7.293	0.482
9/4/2014 5:18	2	121.524	866.936	89	7.134	0.493
9/4/2014 5:18	2	116.09	868.518	89.2	7.481	0.470
9/4/2014 5:17	2	110.162	843.206	89.4	7.654	0.459
9/4/2014 5:17	2	103.246	786.254	89.4	7.615	0.462
9/4/2014 5:16	2	97.565	756.196	89.1	7.751	0.454
9/4/2014 5:16	2	93.119	730.884	89.5	7.849	0.448
9/4/2014 5:15	2	88.92	700.826	89.2	7.882	0.446
9/4/2014 5:15	2	86.203	673.932	89.4	7.818	0.450
9/4/2014 5:14	2	85.215	590.086	89.4	6.925	0.508
9/4/2014 5:14	2	75.829	531.552	88.8	7.010	0.502
9/4/2014 5:13	2	73.606	503.076	89	6.835	0.515
9/4/2014 5:13	2	76.57	449.288	89.2	5.868	0.599
9/4/2014 5:12	2	43.472	529.97	88.7	12.191	0.288
9/4/2014 5:12	2	59.033	613.816	88.8	10.398	0.338
9/4/2014 5:11	1	62.738	580.594	80.3	9.254	0.380
9/4/2014 5:11	1	61.256	496.748	68.8	8.109	0.434
9/4/2014 5:10	1	59.033	498.33	68.9	8.442	0.417
9/4/2014 5:10	1	56.316	474.6	68.5	8.427	0.417
9/4/2014 5:09	1	53.846	452.452	68.5	8.403	0.419
9/4/2014 5:09	1	52.117	455.616	69	8.742	0.402
9/4/2014 5:08	1	50.882	430.304	68.5	8.457	0.416
9/4/2014 5:08	1	48.659	431.886	68.8	8.876	0.396
9/4/2014 5:07	1	46.436	409.738	68.5	8.824	0.399
9/4/2014 5:07	1	44.213	389.172	68.8	8.802	0.400
9/4/2014 5:06	1	41.743	408.156	68.4	9.778	0.360
9/4/2014 5:06	1	40.755	390.754	69.1	9.588	0.367
9/4/2014 5:05	1	39.52	367.024	68.8	9.287	0.379

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 5:05	1	38.532	368.606	68.9	9.566	0.368
9/4/2014 5:04	1	38.532	365.442	68.5	9.484	0.371
9/4/2014 5:04	1	38.532	367.024	68.8	9.525	0.369
9/4/2014 5:03	1	38.038	365.442	68.4	9.607	0.366
9/4/2014 5:03	1	38.285	365.442	68.4	9.545	0.368
9/4/2014 5:02	1	38.285	363.86	68.1	9.504	0.370
9/4/2014 5:02	1	38.038	365.442	68.4	9.607	0.366
9/4/2014 5:01	1	38.038	363.86	68.1	9.566	0.368
9/4/2014 5:01	1	38.285	362.278	67.8	9.463	0.372
9/4/2014 5:00	1	38.532	365.442	68.5	9.484	0.371
9/4/2014 5:00	1	38.038	365.442	68.2	9.607	0.366
9/4/2014 4:59	1	37.544	365.442	68.2	9.734	0.361
9/4/2014 4:59	1	37.791	365.442	68.2	9.670	0.364
9/4/2014 4:58	1	37.544	365.442	68.4	9.734	0.361
9/4/2014 4:58	1	37.297	365.442	68.2	9.798	0.359
9/4/2014 4:57	1	37.297	363.86	68.1	9.756	0.361
9/4/2014 4:57	1	37.05	365.442	68.2	9.863	0.357
9/4/2014 4:56	1	37.297	365.442	68.2	9.798	0.359
9/4/2014 4:56	1	37.05	365.442	68.2	9.863	0.357
9/4/2014 4:55	1	36.556	365.442	68.4	9.997	0.352
9/4/2014 4:55	1	36.556	365.442	68.5	9.997	0.352
9/4/2014 4:54	1	36.309	365.442	68.4	10.065	0.349
9/4/2014 4:54	1	36.556	365.442	68.4	9.997	0.352
9/4/2014 4:53	1	36.556	343.294	68.2	9.391	0.375
9/4/2014 4:53	1	36.062	341.712	68.1	9.476	0.371
9/4/2014 4:52	1	35.815	343.294	68.2	9.585	0.367
9/4/2014 4:52	1	35.568	346.458	68.9	9.741	0.361
9/4/2014 4:51	1	35.568	343.294	68.4	9.652	0.364
9/4/2014 4:51	1	35.568	341.712	67.8	9.607	0.366
9/4/2014 4:50	1	35.321	343.294	68.4	9.719	0.362
9/4/2014 4:50	1	35.568	341.712	68.1	9.607	0.366
9/4/2014 4:49	1	34.827	341.712	68.1	9.812	0.358
9/4/2014 4:49	1	34.333	343.294	68.4	9.999	0.352
9/4/2014 4:48	1	34.333	343.294	68.2	9.999	0.352
9/4/2014 4:48	1	34.333	343.294	68.2	9.999	0.352
9/4/2014 4:47	1	33.839	341.712	68.1	10.098	0.348
9/4/2014 4:47	1	33.592	341.712	67.8	10.172	0.346
9/4/2014 4:46	1	33.345	343.294	68.4	10.295	0.342
9/4/2014 4:46	1	33.098	341.712	68.1	10.324	0.341
9/4/2014 4:45	1	32.604	322.728	68.2	9.898	0.355
9/4/2014 4:45	1	32.357	322.728	68.2	9.974	0.353
9/4/2014 4:44	1	32.357	324.31	68.8	10.023	0.351
9/4/2014 4:44	1	32.357	319.564	67.8	9.876	0.356
9/4/2014 4:43	1	31.863	322.728	68.2	10.129	0.347
9/4/2014 4:43	1	31.616	322.728	68.4	10.208	0.345
9/4/2014 4:42	1	31.369	322.728	68.2	10.288	0.342
9/4/2014 4:42	1	30.875	322.728	68.5	10.453	0.336
9/4/2014 4:41	1	30.628	322.728	68.2	10.537	0.334
9/4/2014 4:41	1	30.381	322.728	68.4	10.623	0.331
9/4/2014 4:40	1	30.134	322.728	68.2	10.710	0.328
9/4/2014 4:40	1	30.381	319.564	67.8	10.519	0.334
9/4/2014 4:39	1	30.134	321.146	68.1	10.657	0.330
9/4/2014 4:39	1	29.64	319.564	67.8	10.782	0.326
9/4/2014 4:38	1	29.393	322.728	68.2	10.980	0.320
9/4/2014 4:38	1	29.64	297.416	67.8	10.034	0.350
9/4/2014 4:37	1	29.146	300.58	68.2	10.313	0.341
9/4/2014 4:37	1	28.652	300.58	68.2	10.491	0.335
9/4/2014 4:36	1	28.158	300.58	68.4	10.675	0.329
9/4/2014 4:36	1	27.664	300.58	68.5	10.865	0.324
9/4/2014 4:35	1	27.17	276.85	67.8	10.190	0.345
9/4/2014 4:35	1	26.429	300.58	68.4	11.373	0.309
9/4/2014 4:34	1	25.688	297.416	67.8	11.578	0.304
9/4/2014 4:34	1	25.688	278.432	68.1	10.839	0.324
9/4/2014 4:33	1	25.688	278.432	68.2	10.839	0.324

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 4:33	1	25.441	278.432	68.1	10.944	0.321
9/4/2014 4:32	1	25.441	281.596	68.8	11.069	0.318
9/4/2014 4:32	1	25.194	278.432	68.4	11.052	0.318
9/4/2014 4:31	1	24.947	280.014	68.5	11.224	0.313
9/4/2014 4:31	1	24.947	276.85	67.8	11.098	0.317
9/4/2014 4:30	1	24.7	280.014	68.5	11.337	0.310
9/4/2014 4:30	1	24.453	280.014	68.5	11.451	0.307
9/4/2014 4:29	1	24.206	276.85	67.8	11.437	0.308
9/4/2014 4:29	1	24.206	278.432	68.2	11.503	0.306
9/4/2014 4:28	1	24.453	278.432	68.1	11.386	0.309
9/4/2014 4:28	1	24.7	276.85	67.7	11.209	0.314
9/4/2014 4:27	1	24.453	278.432	68.2	11.386	0.309
9/4/2014 4:27	1	24.453	278.432	68.2	11.386	0.309
9/4/2014 4:26	1	24.206	278.432	68.2	11.503	0.306
9/4/2014 4:26	1	23.465	278.432	68.4	11.866	0.296
9/4/2014 4:25	1	23.465	280.014	68.5	11.933	0.295
9/4/2014 4:25	1	22.971	256.284	68.2	11.157	0.315
9/4/2014 4:24	1	22.971	256.284	68.1	11.157	0.315
9/4/2014 4:24	1	22.724	256.284	68.2	11.278	0.312
9/4/2014 4:23	1	22.477	237.3	68.9	10.557	0.333
9/4/2014 4:23	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 4:22	1	22.23	256.284	68.2	11.529	0.305
9/4/2014 4:22	1	22.23	259.448	68.8	11.671	0.301
9/4/2014 4:21	1	22.23	256.284	68.1	11.529	0.305
9/4/2014 4:21	1	22.477	256.284	68.2	11.402	0.308
9/4/2014 4:20	1	22.23	259.448	68.8	11.671	0.301
9/4/2014 4:20	1	22.477	257.866	68.4	11.472	0.307
9/4/2014 4:19	1	22.23	256.284	68.2	11.529	0.305
9/4/2014 4:19	1	22.477	256.284	68.1	11.402	0.308
9/4/2014 4:18	1	22.477	256.284	68.1	11.402	0.308
9/4/2014 4:18	1	22.477	256.284	68.2	11.402	0.308
9/4/2014 4:17	1	22.477	257.866	68.4	11.472	0.307
9/4/2014 4:17	1	22.477	256.284	67.8	11.402	0.308
9/4/2014 4:16	1	22.477	256.284	68.2	11.402	0.308
9/4/2014 4:16	1	22.477	257.866	68.4	11.472	0.307
9/4/2014 4:15	1	22.477	256.284	67.8	11.402	0.308
9/4/2014 4:15	1	22.477	256.284	68.2	11.402	0.308
9/4/2014 4:14	1	22.23	257.866	68.5	11.600	0.303
9/4/2014 4:14	1	22.724	259.448	68.8	11.417	0.308
9/4/2014 4:13	1	22.724	256.284	68.1	11.278	0.312
9/4/2014 4:13	1	22.724	256.284	68.2	11.278	0.312
9/4/2014 4:12	1	22.724	257.866	68.4	11.348	0.310
9/4/2014 4:12	1	22.724	256.284	67.8	11.278	0.312
9/4/2014 4:11	1	22.477	257.866	68.5	11.472	0.307
9/4/2014 4:11	1	22.724	257.866	68.4	11.348	0.310
9/4/2014 4:10	1	22.477	256.284	68.1	11.402	0.308
9/4/2014 4:10	1	22.724	257.866	68.4	11.348	0.310
9/4/2014 4:09	1	22.477	235.718	68.2	10.487	0.335
9/4/2014 4:09	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 4:08	1	22.724	237.3	68.8	10.443	0.337
9/4/2014 4:08	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 4:07	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 4:07	1	22.724	235.718	68.2	10.373	0.339
9/4/2014 4:06	1	22.724	237.3	68.9	10.443	0.337
9/4/2014 4:06	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 4:05	1	22.477	235.718	68.1	10.487	0.335
9/4/2014 4:05	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 4:04	1	22.724	235.718	68.2	10.373	0.339
9/4/2014 4:04	1	22.724	237.3	68.8	10.443	0.337
9/4/2014 4:03	1	22.477	238.882	69	10.628	0.331
9/4/2014 4:03	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 4:02	1	22.724	235.718	68.2	10.373	0.339
9/4/2014 4:02	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 4:01	1	22.477	235.718	68.2	10.487	0.335

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 4:01	1	22.724	237.3	68.5	10.443	0.337
9/4/2014 4:00	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 4:00	1	22.477	257.866	68.4	11.472	0.307
9/4/2014 3:59	1	22.477	256.284	68.1	11.402	0.308
9/4/2014 3:59	1	22.477	259.448	68.8	11.543	0.305
9/4/2014 3:58	1	22.724	257.866	68.4	11.348	0.310
9/4/2014 3:58	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 3:57	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 3:57	1	22.724	237.3	68.5	10.443	0.337
9/4/2014 3:56	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 3:56	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 3:55	1	22.477	235.718	68.2	10.487	0.335
9/4/2014 3:55	1	22.724	237.3	68.8	10.443	0.337
9/4/2014 3:54	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 3:54	1	22.724	235.718	68.2	10.373	0.339
9/4/2014 3:53	1	22.477	238.882	69	10.628	0.331
9/4/2014 3:53	1	22.724	235.718	68.1	10.373	0.339
9/4/2014 3:52	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 3:52	1	22.724	235.718	68.4	10.373	0.339
9/4/2014 3:51	1	22.724	237.3	68.8	10.443	0.337
9/4/2014 3:51	1	22.724	235.718	68.2	10.373	0.339
9/4/2014 3:50	1	22.477	259.448	68.9	11.543	0.305
9/4/2014 3:50	1	22.477	259.448	68.9	11.543	0.305
9/4/2014 3:49	1	22.724	257.866	68.5	11.348	0.310
9/4/2014 3:49	1	22.724	259.448	68.8	11.417	0.308
9/4/2014 3:48	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 3:48	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 3:47	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 3:47	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 3:46	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 3:46	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 3:45	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 3:45	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 3:44	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 3:44	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 3:43	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 3:43	1	22.477	237.3	68.8	10.557	0.333
9/4/2014 3:42	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:42	1	21.983	237.3	68.8	10.795	0.326
9/4/2014 3:41	1	22.23	237.3	68.8	10.675	0.329
9/4/2014 3:41	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:40	1	21.983	237.3	68.8	10.795	0.326
9/4/2014 3:40	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:39	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:39	1	21.736	237.3	68.8	10.917	0.322
9/4/2014 3:38	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:38	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:37	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:37	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:36	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:36	1	22.23	237.3	68.5	10.675	0.329
9/4/2014 3:35	1	21.983	237.3	68.8	10.795	0.326
9/4/2014 3:35	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:34	1	21.983	235.718	68.4	10.723	0.328
9/4/2014 3:34	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:33	1	21.736	237.3	68.8	10.917	0.322
9/4/2014 3:33	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:32	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:32	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:31	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 3:31	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:30	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:30	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:29	1	21.736	235.718	68.4	10.845	0.324

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 3:29	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:28	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:28	1	21.983	235.718	68.4	10.723	0.328
9/4/2014 3:27	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:27	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:26	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:26	1	21.983	237.3	68.9	10.795	0.326
9/4/2014 3:25	1	21.983	235.718	68.4	10.723	0.328
9/4/2014 3:25	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 3:24	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:24	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:23	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:23	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 3:22	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:22	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:21	1	21.736	259.448	68.8	11.936	0.295
9/4/2014 3:21	1	21.736	257.866	68.4	11.864	0.296
9/4/2014 3:20	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:20	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 3:19	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:19	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:18	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:18	1	21.983	235.718	68.4	10.723	0.328
9/4/2014 3:17	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:17	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:16	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:16	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:15	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:15	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:14	1	21.736	234.136	67.8	10.772	0.327
9/4/2014 3:14	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:13	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:13	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:12	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 3:12	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:11	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:11	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:10	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:10	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:09	1	21.983	235.718	68.4	10.723	0.328
9/4/2014 3:08	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:08	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:07	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:07	1	21.983	234.136	67.8	10.651	0.330
9/4/2014 3:06	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:06	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:05	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 3:05	1	21.983	237.3	68.5	10.795	0.326
9/4/2014 3:04	1	21.983	235.718	68.2	10.723	0.328
9/4/2014 3:04	1	21.983	237.3	68.8	10.795	0.326
9/4/2014 3:03	1	21.736	237.3	68.9	10.917	0.322
9/4/2014 3:03	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 3:02	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 3:02	1	21.489	235.718	68.2	10.969	0.321
9/4/2014 3:01	1	21.489	256.284	68.1	11.926	0.295
9/4/2014 3:01	1	21.489	256.284	68.2	11.926	0.295
9/4/2014 3:00	1	21.736	257.866	68.4	11.864	0.296
9/4/2014 3:00	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 2:59	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:59	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:58	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:58	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:57	1	21.736	237.3	68.5	10.917	0.322
9/4/2014 2:57	1	21.736	237.3	68.5	10.917	0.322

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 2:56	1	21.736	234.136	67.8	10.772	0.327
9/4/2014 2:56	1	21.736	259.448	68.8	11.936	0.295
9/4/2014 2:55	1	21.489	257.866	68.4	12.000	0.293
9/4/2014 2:55	1	21.736	256.284	68.1	11.791	0.298
9/4/2014 2:54	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:54	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:53	1	21.736	237.3	68.8	10.917	0.322
9/4/2014 2:53	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:52	1	21.736	256.284	67.8	11.791	0.298
9/4/2014 2:52	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:51	1	21.736	237.3	68.8	10.917	0.322
9/4/2014 2:51	1	21.736	234.136	67.8	10.772	0.327
9/4/2014 2:50	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:50	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:49	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:49	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:48	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:48	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:47	1	21.983	234.136	67.8	10.651	0.330
9/4/2014 2:47	1	21.736	237.3	68.8	10.917	0.322
9/4/2014 2:46	1	21.489	238.882	69.1	11.116	0.316
9/4/2014 2:46	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:45	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:45	1	21.489	235.718	68.2	10.969	0.321
9/4/2014 2:44	1	21.489	237.3	68.8	11.043	0.318
9/4/2014 2:44	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:43	1	21.736	235.718	68.4	10.845	0.324
9/4/2014 2:43	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:42	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:42	1	21.489	237.3	68.5	11.043	0.318
9/4/2014 2:41	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:41	1	21.489	237.3	68.8	11.043	0.318
9/4/2014 2:40	1	21.489	237.3	68.5	11.043	0.318
9/4/2014 2:40	1	21.489	235.718	68.2	10.969	0.321
9/4/2014 2:39	1	21.242	235.718	68.4	11.097	0.317
9/4/2014 2:39	1	21.489	235.718	68.2	10.969	0.321
9/4/2014 2:38	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:38	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:37	1	21.242	235.718	68.2	11.097	0.317
9/4/2014 2:37	1	21.489	237.3	68.9	11.043	0.318
9/4/2014 2:36	1	21.489	235.718	68.4	10.969	0.321
9/4/2014 2:36	1	21.489	237.3	68.5	11.043	0.318
9/4/2014 2:35	1	21.242	235.718	68.1	11.097	0.317
9/4/2014 2:35	1	21.242	235.718	68.2	11.097	0.317
9/4/2014 2:34	1	21.242	235.718	68.4	11.097	0.317
9/4/2014 2:34	1	21.242	235.718	68.2	11.097	0.317
9/4/2014 2:33	1	20.995	235.718	68.2	11.227	0.313
9/4/2014 2:33	1	21.242	215.152	68.5	10.129	0.347
9/4/2014 2:32	1	21.242	213.57	68.2	10.054	0.350
9/4/2014 2:32	1	20.995	213.57	68.2	10.172	0.346
9/4/2014 2:31	1	20.995	213.57	68.2	10.172	0.346
9/4/2014 2:31	1	20.995	213.57	68.2	10.172	0.346
9/4/2014 2:30	1	21.242	213.57	68.2	10.054	0.350
9/4/2014 2:30	1	20.995	213.57	67.8	10.172	0.346
9/4/2014 2:29	1	20.995	213.57	67.8	10.172	0.346
9/4/2014 2:29	1	21.242	213.57	68.1	10.054	0.350
9/4/2014 2:28	1	20.748	213.57	68.2	10.294	0.342
9/4/2014 2:28	1	20.748	213.57	67.8	10.294	0.342
9/4/2014 2:27	1	20.748	213.57	67.8	10.294	0.342
9/4/2014 2:27	1	20.748	215.152	68.5	10.370	0.339
9/4/2014 2:26	1	20.748	215.152	68.5	10.370	0.339
9/4/2014 2:26	1	20.748	213.57	68.2	10.294	0.342
9/4/2014 2:25	1	20.748	215.152	68.4	10.370	0.339
9/4/2014 2:25	1	20.501	213.57	67.8	10.418	0.338

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 2:24	1	20.501	213.57	68.2	10.418	0.338
9/4/2014 2:24	1	20.501	215.152	68.5	10.495	0.335
9/4/2014 2:23	1	20.748	213.57	68.1	10.294	0.342
9/4/2014 2:23	1	20.254	213.57	68.2	10.545	0.334
9/4/2014 2:22	1	20.501	213.57	68.2	10.418	0.338
9/4/2014 2:22	1	20.501	213.57	67.8	10.418	0.338
9/4/2014 2:21	1	20.501	213.57	68.1	10.418	0.338
9/4/2014 2:21	1	20.254	213.57	68.2	10.545	0.334
9/4/2014 2:20	1	20.254	215.152	68.4	10.623	0.331
9/4/2014 2:20	1	20.254	215.152	68.5	10.623	0.331
9/4/2014 2:19	1	20.254	215.152	68.4	10.623	0.331
9/4/2014 2:19	1	20.254	234.136	67.8	11.560	0.304
9/4/2014 2:18	1	20.254	235.718	68.2	11.638	0.302
9/4/2014 2:18	1	20.254	235.718	68.1	11.638	0.302
9/4/2014 2:17	1	20.254	235.718	68.1	11.638	0.302
9/4/2014 2:17	1	20.254	235.718	68.4	11.638	0.302
9/4/2014 2:16	1	20.254	234.136	67.8	11.560	0.304
9/4/2014 2:16	1	20.501	235.718	68.1	11.498	0.306
9/4/2014 2:15	1	20.501	235.718	68.2	11.498	0.306
9/4/2014 2:15	1	20.501	235.718	68.2	11.498	0.306
9/4/2014 2:14	1	20.501	235.718	68.4	11.498	0.306
9/4/2014 2:14	1	20.254	235.718	68.4	11.638	0.302
9/4/2014 2:13	1	20.501	237.3	68.5	11.575	0.304
9/4/2014 2:13	1	20.501	235.718	68.1	11.498	0.306
9/4/2014 2:12	1	20.501	235.718	68.2	11.498	0.306
9/4/2014 2:12	1	20.748	234.136	67.8	11.285	0.312
9/4/2014 2:11	1	20.748	235.718	68.1	11.361	0.310
9/4/2014 2:11	1	20.995	235.718	68.1	11.227	0.313
9/4/2014 2:10	1	20.995	235.718	68.4	11.227	0.313
9/4/2014 2:10	1	20.748	237.3	68.5	11.437	0.308
9/4/2014 2:09	1	20.995	235.718	68.2	11.227	0.313
9/4/2014 2:09	1	20.748	235.718	68.2	11.361	0.310
9/4/2014 2:08	1	21.242	237.3	68.5	11.171	0.315
9/4/2014 2:08	1	21.242	235.718	68.1	11.097	0.317
9/4/2014 2:07	1	21.242	235.718	68.2	11.097	0.317
9/4/2014 2:07	1	21.242	235.718	68.1	11.097	0.317
9/4/2014 2:06	1	21.489	234.136	67.8	10.896	0.323
9/4/2014 2:06	1	21.242	234.136	67.8	11.022	0.319
9/4/2014 2:05	1	21.736	235.718	68.1	10.845	0.324
9/4/2014 2:05	1	21.736	235.718	68.2	10.845	0.324
9/4/2014 2:04	1	21.983	234.136	67.8	10.651	0.330
9/4/2014 2:04	1	22.23	234.136	67.8	10.532	0.334
9/4/2014 2:03	1	22.23	235.718	68.1	10.604	0.332
9/4/2014 2:03	1	22.23	235.718	68.2	10.604	0.332
9/4/2014 2:02	1	22.477	237.3	68.5	10.557	0.333
9/4/2014 2:02	1	22.477	235.718	68.2	10.487	0.335
9/4/2014 2:01	1	22.477	235.718	68.4	10.487	0.335
9/4/2014 2:01	1	22.971	237.3	68.5	10.330	0.340
9/4/2014 2:00	1	23.218	234.136	67.8	10.084	0.349
9/4/2014 2:00	1	22.971	257.866	68.5	11.226	0.313
9/4/2014 1:59	1	23.218	278.432	68.2	11.992	0.293
9/4/2014 1:59	1	23.465	278.432	68.1	11.866	0.296
9/4/2014 1:58	1	24.206	278.432	68.1	11.503	0.306
9/4/2014 1:58	1	24.947	256.284	67.8	10.273	0.342
9/4/2014 1:57	1	25.194	257.866	68.4	10.235	0.344
9/4/2014 1:57	1	25.441	276.85	67.8	10.882	0.323
9/4/2014 1:56	1	25.194	276.85	67.7	10.989	0.320
9/4/2014 1:56	1	25.194	278.432	68.4	11.052	0.318
9/4/2014 1:55	1	24.947	278.432	68.2	11.161	0.315
9/4/2014 1:55	1	24.947	278.432	68.4	11.161	0.315
9/4/2014 1:54	1	25.194	278.432	68.1	11.052	0.318
9/4/2014 1:54	1	24.947	280.014	68.5	11.224	0.313
9/4/2014 1:53	1	25.194	281.596	68.8	11.177	0.315
9/4/2014 1:53	1	25.194	276.85	67.8	10.989	0.320

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 1:52	1	25.441	276.85	67.8	10.882	0.323
9/4/2014 1:52	1	25.441	256.284	68.1	10.074	0.349
9/4/2014 1:51	1	25.441	256.284	68.1	10.074	0.349
9/4/2014 1:51	1	25.194	256.284	68.2	10.172	0.346
9/4/2014 1:50	1	25.441	278.432	68.4	10.944	0.321
9/4/2014 1:50	1	25.194	278.432	68.2	11.052	0.318
9/4/2014 1:49	1	25.441	278.432	68.4	10.944	0.321
9/4/2014 1:49	1	25.441	278.432	68.2	10.944	0.321
9/4/2014 1:48	1	25.441	278.432	68.2	10.944	0.321
9/4/2014 1:48	1	25.688	278.432	68.2	10.839	0.324
9/4/2014 1:47	1	25.194	276.85	67.8	10.989	0.320
9/4/2014 1:47	1	25.688	276.85	67.8	10.777	0.326
9/4/2014 1:46	1	25.441	278.432	68.4	10.944	0.321
9/4/2014 1:46	1	25.688	278.432	68.1	10.839	0.324
9/4/2014 1:45	1	25.688	276.85	67.8	10.777	0.326
9/4/2014 1:45	1	25.441	278.432	68.1	10.944	0.321
9/4/2014 1:44	1	25.688	278.432	68.1	10.839	0.324
9/4/2014 1:44	1	25.688	278.432	68.2	10.839	0.324
9/4/2014 1:43	1	25.935	278.432	68.1	10.736	0.328
9/4/2014 1:43	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:42	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:42	1	25.935	257.866	68.4	9.943	0.354
9/4/2014 1:41	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:41	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:40	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:40	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:39	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:39	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:38	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:38	1	25.935	276.85	67.8	10.675	0.329
9/4/2014 1:37	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:37	1	25.688	276.85	67.8	10.777	0.326
9/4/2014 1:36	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:36	1	26.182	278.432	68.1	10.634	0.331
9/4/2014 1:35	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:35	1	26.182	278.432	68.2	10.634	0.331
9/4/2014 1:34	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:34	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:33	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:33	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:32	1	25.935	278.432	68.2	10.736	0.328

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 1:32	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:31	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:31	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 1:30	1	26.182	300.58	68.2	11.480	0.306
9/4/2014 1:30	1	26.182	300.58	68.1	11.480	0.306
9/4/2014 1:29	1	25.935	300.58	68.2	11.590	0.303
9/4/2014 1:29	1	26.182	300.58	68.4	11.480	0.306
9/4/2014 1:28	1	26.429	300.58	68.2	11.373	0.309
9/4/2014 1:28	1	26.182	300.58	68.5	11.480	0.306
9/4/2014 1:27	1	26.182	300.58	68.5	11.480	0.306
9/4/2014 1:27	1	26.182	300.58	68.4	11.480	0.306
9/4/2014 1:26	1	26.182	300.58	68.4	11.480	0.306
9/4/2014 1:26	1	26.182	300.58	68.5	11.480	0.306
9/4/2014 1:25	1	26.429	300.58	68.2	11.373	0.309
9/4/2014 1:25	1	26.429	300.58	68.5	11.373	0.309
9/4/2014 1:24	1	26.429	303.744	68.9	11.493	0.306
9/4/2014 1:24	1	26.676	281.596	68.8	10.556	0.333
9/4/2014 1:23	1	26.676	278.432	68.4	10.438	0.337
9/4/2014 1:23	1	26.182	280.014	68.5	10.695	0.329
9/4/2014 1:22	1	26.429	280.014	68.5	10.595	0.332
9/4/2014 1:22	1	26.676	280.014	68.5	10.497	0.335
9/4/2014 1:21	1	26.429	303.744	68.8	11.493	0.306
9/4/2014 1:21	1	26.429	300.58	68.4	11.373	0.309
9/4/2014 1:20	1	26.429	300.58	68.4	11.373	0.309
9/4/2014 1:20	1	26.429	300.58	68.5	11.373	0.309
9/4/2014 1:19	1	26.676	281.596	68.9	10.556	0.333
9/4/2014 1:19	1	26.676	278.432	68.4	10.438	0.337
9/4/2014 1:18	1	26.676	281.596	68.8	10.556	0.333
9/4/2014 1:18	1	26.676	281.596	68.8	10.556	0.333
9/4/2014 1:17	1	26.923	281.596	68.8	10.459	0.336
9/4/2014 1:17	1	26.676	281.596	68.9	10.556	0.333
9/4/2014 1:16	1	26.429	281.596	68.9	10.655	0.330
9/4/2014 1:16	1	26.429	283.178	69.1	10.715	0.328
9/4/2014 1:15	1	26.429	280.014	68.5	10.595	0.332
9/4/2014 1:15	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 1:14	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 1:14	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 1:13	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 1:13	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 1:12	1	26.429	283.178	69.1	10.715	0.328
9/4/2014 1:12	1	26.182	281.596	68.8	10.755	0.327
9/4/2014 1:11	1	26.182	280.014	68.5	10.695	0.329
9/4/2014 1:11	1	26.182	281.596	68.8	10.755	0.327
9/4/2014 1:10	1	26.182	283.178	69.1	10.816	0.325
9/4/2014 1:10	1	25.935	281.596	68.8	10.858	0.324
9/4/2014 1:09	1	26.182	281.596	68.9	10.755	0.327
9/4/2014 1:09	1	26.182	281.596	68.9	10.755	0.327
9/4/2014 1:08	1	26.182	281.596	68.8	10.755	0.327
9/4/2014 1:08	1	26.182	281.596	68.8	10.755	0.327
9/4/2014 1:07	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:07	1	26.182	281.596	68.8	10.755	0.327
9/4/2014 1:06	1	26.182	280.014	68.5	10.695	0.329
9/4/2014 1:06	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 1:05	1	26.182	278.432	68.4	10.634	0.331
9/4/2014 1:05	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:04	1	25.935	281.596	68.8	10.858	0.324
9/4/2014 1:04	1	25.935	281.596	68.9	10.858	0.324
9/4/2014 1:03	1	25.688	281.596	68.9	10.962	0.321
9/4/2014 1:03	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 1:02	1	25.935	281.596	68.8	10.858	0.324
9/4/2014 1:02	1	25.688	281.596	68.8	10.962	0.321
9/4/2014 1:01	1	25.935	280.014	68.5	10.797	0.326
9/4/2014 1:01	1	25.935	257.866	68.5	9.943	0.354
9/4/2014 1:00	1	25.935	257.866	68.4	9.943	0.354

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 1:00	1	25.935	283.178	69.1	10.919	0.322
9/4/2014 0:59	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 0:59	1	25.688	300.58	68.5	11.701	0.301
9/4/2014 0:58	1	25.688	300.58	68.4	11.701	0.301
9/4/2014 0:58	1	25.935	300.58	68.4	11.590	0.303
9/4/2014 0:57	1	25.935	300.58	68.5	11.590	0.303
9/4/2014 0:57	1	25.688	300.58	68.4	11.701	0.301
9/4/2014 0:56	1	25.935	303.744	68.9	11.712	0.300
9/4/2014 0:56	1	25.935	303.744	68.9	11.712	0.300
9/4/2014 0:55	1	25.441	300.58	68.4	11.815	0.298
9/4/2014 0:55	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 0:54	1	25.688	281.596	69	10.962	0.321
9/4/2014 0:54	1	25.688	280.014	68.5	10.901	0.323
9/4/2014 0:53	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 0:53	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 0:52	1	25.935	300.58	68.5	11.590	0.303
9/4/2014 0:52	1	25.935	303.744	68.9	11.712	0.300
9/4/2014 0:51	1	25.935	303.744	69	11.712	0.300
9/4/2014 0:51	1	25.935	303.744	69	11.712	0.300
9/4/2014 0:50	1	25.935	303.744	68.8	11.712	0.300
9/4/2014 0:50	1	26.182	300.58	68.4	11.480	0.306
9/4/2014 0:49	1	25.935	300.58	68.5	11.590	0.303
9/4/2014 0:49	1	25.935	300.58	68.4	11.590	0.303
9/4/2014 0:48	1	25.935	300.58	68.5	11.590	0.303
9/4/2014 0:48	1	25.935	300.58	68.2	11.590	0.303
9/4/2014 0:47	1	25.935	300.58	68.5	11.590	0.303
9/4/2014 0:47	1	26.182	300.58	68.2	11.480	0.306
9/4/2014 0:46	1	26.182	300.58	68.4	11.480	0.306
9/4/2014 0:46	1	26.429	300.58	68.2	11.373	0.309
9/4/2014 0:45	1	26.429	300.58	68.2	11.373	0.309
9/4/2014 0:45	1	26.676	300.58	68.4	11.268	0.312
9/4/2014 0:44	1	26.676	300.58	68.5	11.268	0.312
9/4/2014 0:44	1	26.923	303.744	68.8	11.282	0.312
9/4/2014 0:43	1	26.923	300.58	68.4	11.164	0.315
9/4/2014 0:43	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:42	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:42	1	26.923	303.744	68.8	11.282	0.312
9/4/2014 0:41	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:41	1	26.923	300.58	68.4	11.164	0.315
9/4/2014 0:40	1	26.923	278.432	68.4	10.342	0.340
9/4/2014 0:40	1	27.17	281.596	68.8	10.364	0.339
9/4/2014 0:39	1	26.923	280.014	68.5	10.401	0.338
9/4/2014 0:39	1	27.17	278.432	68.4	10.248	0.343
9/4/2014 0:38	1	27.17	280.014	68.5	10.306	0.341
9/4/2014 0:38	1	27.17	281.596	68.9	10.364	0.339
9/4/2014 0:37	1	27.17	278.432	68.4	10.248	0.343
9/4/2014 0:37	1	27.17	281.596	68.8	10.364	0.339
9/4/2014 0:36	1	27.417	300.58	68.2	10.963	0.321
9/4/2014 0:36	1	27.417	303.744	69	11.079	0.317
9/4/2014 0:35	1	27.17	300.58	68.5	11.063	0.318
9/4/2014 0:35	1	27.17	303.744	69.1	11.179	0.315
9/4/2014 0:34	1	27.17	300.58	68.4	11.063	0.318
9/4/2014 0:34	1	27.17	300.58	68.4	11.063	0.318
9/4/2014 0:33	1	27.17	303.744	68.9	11.179	0.315
9/4/2014 0:33	1	27.17	300.58	68.4	11.063	0.318
9/4/2014 0:32	1	27.17	303.744	68.8	11.179	0.315
9/4/2014 0:32	1	27.17	303.744	68.8	11.179	0.315
9/4/2014 0:31	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:31	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:30	1	26.676	303.744	68.9	11.386	0.309
9/4/2014 0:30	1	26.676	300.58	68.5	11.268	0.312
9/4/2014 0:29	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:29	1	26.676	300.58	68.2	11.268	0.312
9/4/2014 0:28	1	26.676	300.58	68.2	11.268	0.312

TIME	#_Comps_On	Chiler input kW	Chiller Capacity (kWr)	CHW_%_Flow	COP	Eff kW/Tr
9/4/2014 0:28	1	26.923	300.58	68.5	11.164	0.315
9/4/2014 0:27	1	26.676	278.432	68.2	10.438	0.337
9/4/2014 0:27	1	26.429	280.014	68.5	10.595	0.332
9/4/2014 0:26	1	26.429	281.596	68.8	10.655	0.330
9/4/2014 0:26	1	26.182	280.014	68.5	10.695	0.329
9/4/2014 0:25	1	25.935	278.432	68.4	10.736	0.328
9/4/2014 0:25	1	25.935	278.432	68.2	10.736	0.328
9/4/2014 0:24	1	25.688	257.866	68.5	10.038	0.350
9/4/2014 0:24	1	25.441	257.866	68.5	10.136	0.347
9/4/2014 0:23	1	25.441	257.866	68.5	10.136	0.347
9/4/2014 0:23	1	25.441	256.284	68.2	10.074	0.349
9/4/2014 0:22	1	25.194	256.284	68.2	10.172	0.346
9/4/2014 0:22	1	24.947	257.866	68.5	10.337	0.340
9/4/2014 0:21	1	24.947	257.866	68.4	10.337	0.340
9/4/2014 0:21	1	24.453	237.3	68.9	9.704	0.362
9/4/2014 0:20	1	23.959	235.718	68.2	9.838	0.357
9/4/2014 0:20	1	23.959	235.718	68.2	9.838	0.357
9/4/2014 0:19	1	23.465	235.718	68.2	10.046	0.350
9/4/2014 0:19	1	23.218	215.152	68.5	9.267	0.380
9/4/2014 0:18	1	22.971	215.152	68.5	9.366	0.375