APPENDIX A2: Forecast Loads at Sir Charles Gairdner Hospital

	Building	Sub From	Old Area	Old VA/m2 Ltg & Pwr	New Area m2	VA/m2 Ltg & Pwr	Present kVA	2007 Q1	2007 Q2	2007 Q3	2007 Q4	2008 Q1	2008 Q2	2008 Q3	2008 Q4	2009 Q1	2009 Q2	2009 Q3	2009 Q4	2010 Q1	2010 Q2	2010 Q3	2010 Q4	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4	2015 Q1	2015 Q2	2015 Q3	2015 Q4	2016 Q1	2016 Q2	2016 Q3	2016 Q4	Fut'r	Max Allow	Max
F1	**G1**	**[substation]**	69,600	50	* *		**1,740**	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740		*1,740*
F1	**G3**	**[substation]**	* *		* *		**870**	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870		*870*
F1	**G4**	**[substation]**					**Serves A**																																												*0*
F1	A	G4	20,900	45			**941**	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941	941		*941*
F1	V	*A*	400	45			**18**	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		*18*
F1	F - Ambulatory old	G4	2,780	45			**125**	125	125	125	125	125	125	125	125	125	125	125	125									New HV Circuit F4																				*125*
							3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,694	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	3,569	4,800	3,694
F2	**G2**	**[substation]**	* *		* *		**870**	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870	870		*870*
F2	**ZZ-OCHWA**	**[substation]**	9,825	40			**393**	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393		*393*
F2	MED Libray				2,625	40	**105**	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105		*105*
F2	**J**	**[substation]**	10,000	45			**450**	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450		*450*
F2	K	(K)	6,800	45			**306**	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	306	50	50	50	50	50	50	50	50	50	50	50	50	50	0		*306*
F2	KEMH (Women) Future	- - - - -			33,250	50																																									**1,663**		
							2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	2,124	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	1,868	3,481	4,800	2,124
F3	**CC - The Niche**	**[substation]**	4,650	40			**186**	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186		*186*
F3	**D**	**[substation]**	5,080	40			**203**	203	203	203	203	203	203	0																																			*203*
F3	Mental Health	- - - - -			3,150	40										**126**	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126		*126*
F3	**DD - Cancer Centre**	**[substation]**	1,000	120	7,000	50	**120**												**350**	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350		*350*
F3	**CH1**																																																	*0*
F3	**E**	**[substation]**	12,075	45			**543**	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543		*543*
F3	AA - Lions Eye	E	6,225	40			**249**	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249	249		*249*
F3	B	E	6,300	40			**252**	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252		*252*
F3	C	E	12,000	40			**480**	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480		*480*
F3	**H**	**[substation]**	4,933	40			**197**	197	197	197	197	197	197	197	197	**197**	**300**	**300**	**300**	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300			0	0	0		*300*
F3	X -St Johns		1,200	40			**48**	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48		*48*
F3	Carpark 1		32,500	5			**163**	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	0																							*163*
F3	Carpark 2		16,500	5			**83**	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	0																							*83*
F3	Central Plant East				1,500	20								**30**	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	200		*200*
F3	Central Plant West	- - - - -			1,560	20																																						31	31	31	31	31		*31*
F3	600 bay Car Park	- - - - -			11,000	5																																									**55**		*0*
F3	1000 Bay Car Park	- - - - -			18,000	5																																								0	**90**		*0*
F3	1100 bay Car Park	- - - - -			18,000	5								**90**	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		*90*
F3	CP Commercial 1	- - - - -			2,200	55																																									**121**		*0*
F3	CP Commercial 2	- - - - -			4,200	55																																									**231**		*0*
							2,524	2,404	2,404	2,404	2,404	2,404	2,404	2,321	2,321	2,447	2,549	2,549	2,899	2,899	2,899	2,899	2,899	2,899	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,654	2,556	2,556	2,556	2,556	3,053	4,800	2,899
F4	F - Ambulatory new	G4			31,525	50																						**1,576**	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576		*1,576*
F4	P	S	2,600	40			**104**	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104		*104*
F4	Q	S	3,200	40			**128**	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128		*128*
F4	R	S	7,500	40			**300**	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300		*300*
F4	**S**	**[substation]**	940	40			**38**	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38		*38*
F4	T	S	2,250	40			**90**	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		*90*
F4	U	S	2,050	40			**82**	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82		*82*
F4	W	S	1,000	40			**40**	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		*40*
F4	Carpark 3		16,500	5			**83**	83	83	83	83	83	83	83	83	83	83	83	83	0																													*83*
F4	Carpark 4		3,125	5			**16**	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		*16*
F4	Carpark 5		3,750	5			**19**	19	19	19	0																																							*19*
F4	ICHR				27,000	50																																					1,350	1,350	1,350	1,350	1,350		
							898	898	898	898	880	880	880	880	880	880	880	880	880	797	797	797	797	797	797	797	797	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	2,373	3,723	3,723	3,723	3,723	3,723	4,800	3,723
F5	L - U.W.A	(M)	5,650	45			**254**	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	0																							*254*
F5	**M - U.W.A**	**[substation]**	9,275	45			**417**	417	417	417	417	417	417	417	417	417	417	417	417	417	417	417	417	417	417	0																							*417*
F5	N - U.W.A	M	1,880	45			**85**	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	0																							*85*
F5	Carpark 7	L/M	2,800	5			**14**	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	0																							*14*
F5	PMH (Children)				39,363	50																																						1,968	1,968	1,968	1,968		*1,968*
F5	**Z - Crawford Lodge**	**[substation]**	4,600	40			**184**	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184		*184*
F5	**Education & Research L&M Up**				16,750	40																									**670**	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670		
							954	954	954	954	954	954	954	954	954	954	954	954	954	954	954	954	954	954	954	184	184	184	184	184	184	854	854	854	854	854	854	854	854	854	854	854	854	854	2,822	2,822	2,822	4,800	2,822
F6	WAIMR				12,250	45																**551**	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551		*551*
F6	WAIMR Future 1				8,000	45																																									360		
F6	WAIMR Future 2				12,000	45																																									540		
F6	Pathology				15,750	45												**709**	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709	709		*709*
F6	Path West Future				6,875	45																																									309		
							0	0	0	0	0	0	0	0	0	0	0	709	709	709	709	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	1,260	2,470	4,800	1,260
F7	Bypass																																																	
F8	Bypass																																																	
Chiller Loads																																																		
	Building Area (1000m^2)						215	215	215	215	215	215	215	215	215	2,187	218	234	246	243	243	256	256	256	256	237	237	237	269	270	270	287	287	287	287	287	287	287	287	287	287	287	287	287	327	327	327		414		
	Load	(15VA/m2)					3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	32,805	3,270	3,510	3,690	3,645	3,645	3,840	3,840	3,840	3,840	3,555	3,555	3,555	4,035	4,050	4,050	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,305	4,905	4,905	4,905	6,210			
	Other Future Options																																																	
	Child Care																																																	
	Conference & Education																																																	
	Facility Management																																																	
	Landmark Building 1																																																	
	Landmark Building 2																																																	
	Medi Hotel																																																	
							13,419	13,299	13,299	13,299	13,280	13,280	13,280	13,197	13,197	42,903	13,471	14,420	14,950	14,697	14,697	15,444	15,444	15,444	15,199	14,143	14,143	14,143	16,199	16,214	16,214	17,139	17,139	16,883	16,883	16,883	16,883	16,883	16,883	16,883	16,883	16,883	16,883	18,135	20,703	20,703	20,703	25,327		

Note: Loads based on building area

* * - G split between four transformers