

APPENDIX 4.1

DESIGN FLOW REQUIREMENTS

The following tables present both the winter and summer design flow requirements for each NGTL design area. The values are derived, as discussed in Chapters 2 and 4, through application of the mainline design assumptions to the June 2007 design forecast.

Design flow requirements, described as Area Design Flow Requirements in the tables, are calculated by subtracting the Area Minimum Deliveries and area fuel (not shown) from the Area Required Receipts. In some areas, Flow Into Area is added to the Area Required Receipts and represents the flow from other design areas. Area Minimum Deliveries are determined based on the design flow assumption discussed in Section 2.6.

Area FS Productive Capability represents the sum of the FS productive capability at each Receipt Point in the design area. The Area Required Receipts are determined through application of the design area delivery, equal prorationing and FS productive capability assumptions.

Area Peak Productive Capability represents the expected coincidental peak receipts received from all receipt points with the design area as described in Section 2.6.2. The Area Peak Receipts are determined through application of the design area delivery and equal prorationing assumptions against the assessed peak productive capability on the Alberta System.

The design flow requirements may differ from the flow schematics shown in Appendix 5. This is because the detailed flow schematic information is taken directly from the hydraulic simulations whereas design flow requirements are estimated for the entire design area.

Design Flow Requirements

Upper Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	20277	19091	24328	28010	28789
Flow Into Area	0	0	0	0	0
Area Required Receipts	16848	16081	20751	24037	25992
Area Deliveries	-13	-13	-13	-13	-13
Area Design Flow Req'mts	16619	15862	20472	23716	25646

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	720	678	863	994	1022
Flow Into Area	0	0	0	0	0
Area Required Receipts	598	571	737	853	923
Area Deliveries	0	0	0	0	0
Area Design Flow Req'mts	590	563	727	842	910

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	20277	19091	24328	28010	28789
Flow Into Area	0	0	0	0	0
Area Required Receipts	20122	18027	22938	26678	28789
Area Deliveries	-11	-11	-11	-11	-11
Area Design Flow Req'mts	19853	17785	22633	26325	28409

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	720	678	863	994	1022
Flow Into Area	0	0	0	0	0
Area Required Receipts	714	640	814	947	1022
Area Deliveries	0	0	0	0	0
Area Design Flow Req'mts	705	631	803	934	1008

Design Flow Requirements

Central Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	16906	16829	16437	16632	16227
Flow Into Area	16619	15862	17472	1716	3646
Area Required Receipts	13892	14026	13919	14179	14584
Area Deliveries	-210	-210	-210	-210	-210
Area Design Flow Req'mts	30123	29497	31003	15503	17833

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	600	597	583	590	576
Flow Into Area	590	563	620	61	129
Area Required Receipts	493	498	494	503	518
Area Deliveries	-7	-7	-7	-7	-7
Area Design Flow Req'mts	1069	1047	1100	550	633

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	16906	16829	16437	16632	16227
Flow Into Area	19853	14785	633	4325	6409
Area Required Receipts	16771	15838	15459	15810	16227
Area Deliveries	-65	-65	-65	-67	-69
Area Design Flow Req'mts	36344	30355	15828	19865	22358

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	600	597	583	590	576
Flow Into Area	705	525	22	154	227
Area Required Receipts	595	562	549	561	576
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	1290	1077	562	705	794

Design Flow Requirements

Lower Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	66788	70423	65460	60917	55089
Flow Into Area	30123	29497	31003	15503	17833
Area Required Receipts	54780	58563	55349	51861	49472
Area Deliveries	-454	-460	-465	-473	-479
Area Design Flow Req'mts	83746	86849	85176	66226	66191

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	2371	2500	2323	2162	1955
Flow Into Area	1069	1047	1100	550	633
Area Required Receipts	1944	2079	1965	1841	1756
Area Deliveries	-16	-16	-17	-17	-17
Area Design Flow Req'mts	2972	3083	3023	2351	2349

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	66788	70423	65460	60917	55089
Flow Into Area	36344	30355	15828	19865	22358
Area Required Receipts	66246	66230	61531	57881	55089
Area Deliveries	-255	-255	-255	-255	-255
Area Design Flow Req'mts	101485	95480	76315	76749	76485

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	2371	2500	2323	2162	1955
Flow Into Area	1290	1077	562	705	794
Area Required Receipts	2351	2351	2184	2054	1955
Area Deliveries	-9	-9	-9	-9	-9
Area Design Flow Req'mts	3602	3389	2709	2724	2715

Design Flow Requirements

Marten Hills Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	3582	4257	5133	5928	5648
Flow Into Area	0	0	0	0	0
Area Required Receipts	2928	3529	4330	5035	5064
Area Deliveries	-176	-177	-177	-183	-183
Area Design Flow Req'mts	2714	3307	4097	4788	4816

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	127	151	182	210	200
Flow Into Area	0	0	0	0	0
Area Required Receipts	104	125	154	179	180
Area Deliveries	-6	-6	-6	-6	-6
Area Design Flow Req'mts	96	117	145	170	171

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	3582	4257	5133	5928	5648
Flow Into Area	0	0	0	0	0
Area Required Receipts	3552	4000	4821	5629	5648
Area Deliveries	-58	-58	-58	-59	-59
Area Design Flow Req'mts	3449	3891	4701	5498	5517

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	127	151	182	210	200
Flow Into Area	0	0	0	0	0
Area Required Receipts	126	142	171	200	200
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	122	138	167	195	196

Design Flow Requirements

North of Bens Lake Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	18780	17039	17282	18342	19257
Flow Into Area	2000	2000	5000	24000	24000
Area Required Receipts	14699	13324	13374	14015	15107
Area Deliveries	-22240	-25719	-28084	-28512	-30083
Area Design Flow Req'mts	-5730	-10566	-9882	9323	8830

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	667	605	613	651	683
Flow Into Area	71	71	177	852	852
Area Required Receipts	522	473	475	497	536
Area Deliveries	-789	-913	-997	-1012	-1068
Area Design Flow Req'mts	-203	-375	-351	331	313

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	18780	17039	17282	18342	19257
Flow Into Area	2000	5000	24000	24000	24000
Area Required Receipts	16006	13117	12994	13736	14762
Area Deliveries	-15501	-18342	-20550	-21160	-22598
Area Design Flow Req'mts	2299	-393	16278	16400	15975

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	667	605	613	651	683
Flow Into Area	71	177	852	852	852
Area Required Receipts	568	466	461	488	524
Area Deliveries	-550	-651	-729	-751	-802
Area Design Flow Req'mts	82	-14	578	582	567

Design Flow Requirements

North of Bens Lake Max Demand Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability					
Flow Into Area					
Area Required Receipts					
Area Deliveries	-54027	-64212	-76674	-80822	-95514
Area Design Flow Req'mts					

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability					
Flow Into Area					
Area Required Receipts					
Area Deliveries	-1918	-2279	-2721	-2869	-3390
Area Design Flow Req'mts					

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability					
Flow Into Area					
Area Required Receipts					
Area Deliveries	-54086	-64892	-72266	-76563	-92601
Area Design Flow Req'mts					

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability					
Flow Into Area					
Area Required Receipts					
Area Deliveries	-1920	-2303	-2565	-2717	-3287
Area Design Flow Req'mts					

Design Flow Requirements

South of Bens Lake Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	17052	16627	17371	18511	17658
Flow Into Area	270	-4566	-3882	15323	14830
Area Required Receipts	13467	13126	13576	14292	13999
Area Deliveries	-75	-75	-75	-75	-75
Area Design Flow Req'mts	13489	8317	9445	29357	28574

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	605	590	617	657	627
Flow Into Area	10	-162	-138	544	526
Area Required Receipts	478	466	482	507	497
Area Deliveries	-3	-3	-3	-3	-3
Area Design Flow Req'mts	479	295	335	1042	1014

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	17052	16627	17371	18511	17658
Flow Into Area	8299	5607	22278	22400	21975
Area Required Receipts	14614	12930	13207	14021	13695
Area Deliveries	-11	-11	-11	-11	-11
Area Design Flow Req'mts	22715	18360	35305	36230	35483

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	605	590	617	657	627
Flow Into Area	295	199	791	795	780
Area Required Receipts	519	459	469	498	486
Area Deliveries	0	0	0	0	0
Area Design Flow Req'mts	806	652	1253	1286	1259

Design Flow Requirements

Edson Mainline Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	43737	43586	42480	41982	42085
Flow Into Area	84460	88156	87273	69013	69007
Area Required Receipts	35935	36316	35993	35804	37835
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	119932	124005	122802	104356	106355

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1552	1547	1508	1490	1494
Flow Into Area	2998	3129	3098	2450	2449
Area Required Receipts	1275	1289	1278	1271	1343
Area Deliveries	0	0	0	0	0
Area Design Flow Req'mts	4257	4401	4359	3704	3775

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	43896	43749	42634	42128	42222
Flow Into Area	102934	97371	79015	80247	80002
Area Required Receipts	43543	41169	40104	40049	42222
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	145916	138009	118603	119780	121680

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1558	1553	1513	1495	1499
Flow Into Area	3653	3456	2805	2848	2840
Area Required Receipts	1545	1461	1423	1421	1499
Area Deliveries	0	0	0	0	0
Area Design Flow Req'mts	5179	4898	4210	4251	4319

Design Flow Requirements

Eastern Alberta Mainline Design Sub Area (James River to Princess)

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	19589	18875	19630	19048	18789
Flow Into Area	110153	115709	117457	100874	103852
Area Required Receipts	17887	17450	18405	17966	18628
Area Deliveries	-2606	-3105	-3676	-3904	-4962
Area Design Flow Req'mts	125205	129830	131950	114705	117279

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	695	670	697	676	667
Flow Into Area	3910	4107	4169	3580	3686
Area Required Receipts	635	619	653	638	661
Area Deliveries	-93	-110	-130	-139	-176
Area Design Flow Req'mts	4444	4608	4683	4071	4163

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	19589	18875	19630	19048	18789
Flow Into Area	125319	125832	109003	113104	111615
Area Required Receipts	19431	17760	18462	18107	18789
Area Deliveries	-179	-175	-175	-175	-175
Area Design Flow Req'mts	144322	143189	127054	130804	129989

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	695	670	697	676	667
Flow Into Area	4448	4466	3869	4014	3962
Area Required Receipts	690	630	655	643	667
Area Deliveries	-6	-6	-6	-6	-6
Area Design Flow Req'mts	5123	5082	4510	4643	4614

Design Flow Requirements

**Eastern Alberta Mainline Design Sub Area (Princess to
Empress/McNeill)**

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1696	1553	1590	1524	1492
Flow Into Area	127381	122934	120570	119633	115698
Area Required Receipts	1550	1436	1492	1438	1480
Area Deliveries	-9909	-10093	-11184	-11311	-11267
Area Design Flow Req'mts	119002	114259	110860	109742	105891

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	60	55	56	54	53
Flow Into Area	4521	4363	4279	4246	4107
Area Required Receipts	55	51	53	51	53
Area Deliveries	-352	-358	-397	-401	-400
Area Design Flow Req'mts	4224	4055	3935	3895	3758

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1696	1553	1590	1524	1492
Flow Into Area	127765	114379	110226	111841	103826
Area Required Receipts	1682	1462	1497	1449	1492
Area Deliveries	-10785	-11129	-12557	-12317	-12391
Area Design Flow Req'mts	118641	104693	99146	100954	92908

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	60	55	56	54	53
Flow Into Area	4535	4060	3912	3970	3685
Area Required Receipts	60	52	53	51	53
Area Deliveries	-383	-395	-446	-437	-440
Area Design Flow Req'mts	4211	3716	3519	3583	3298

Design Flow Requirements

Western Alberta Mainline Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	11843	11700	14017	14000	13997
Flow Into Area	62667	62814	58638	56877	57971
Area Required Receipts	10863	10872	13212	13277	13964
Area Deliveries	-5100	-5148	-5713	-5699	-5617
Area Design Flow Req'mts	68291	68399	65967	64285	66138

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	420	415	498	497	497
Flow Into Area	2224	2230	2081	2019	2058
Area Required Receipts	386	386	469	471	496
Area Deliveries	-181	-183	-203	-202	-199
Area Design Flow Req'mts	2424	2428	2341	2282	2347

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	11844	11702	14019	14002	13998
Flow Into Area	61161	50931	47509	44699	50646
Area Required Receipts	11806	11039	13217	13344	13998
Area Deliveries	-4274	-4444	-4926	-4874	-4989
Area Design Flow Req'mts	68542	57384	55629	52998	59475

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	420	415	498	497	497
Flow Into Area	2171	1808	1686	1587	1798
Area Required Receipts	419	392	469	474	497
Area Deliveries	-152	-158	-175	-173	-177
Area Design Flow Req'mts	2433	2037	1974	1881	2111

Design Flow Requirements

Rimbey-Nevis Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	34707	36011	34306	33821	34100
Flow Into Area	0	0	0	0	0
Area Required Receipts	31706	33367	32106	31874	33839
Area Deliveries	-3859	-3859	-3865	-3866	-3867
Area Design Flow Req'mts	27440	29080	27829	27599	29538

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1232	1278	1218	1200	1210
Flow Into Area	0	0	0	0	0
Area Required Receipts	1125	1184	1140	1131	1201
Area Deliveries	-137	-137	-137	-137	-137
Area Design Flow Req'mts	974	1032	988	980	1048

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	34707	36011	34306	33821	34100
Flow Into Area	0	0	0	0	0
Area Required Receipts	34037	33480	31870	31758	34100
Area Deliveries	-3255	-3255	-3255	-3255	-3255
Area Design Flow Req'mts	30345	29795	28205	28095	30407

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	1232	1278	1218	1200	1210
Flow Into Area	0	0	0	0	0
Area Required Receipts	1208	1188	1131	1127	1210
Area Deliveries	-116	-116	-116	-116	-116
Area Design Flow Req'mts	1077	1058	1001	997	1079

Design Flow Requirements

South and Alderson Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	10712	10480	11517	11793	11870
Flow Into Area	0	0	0	0	0
Area Required Receipts	10712	10480	11517	11793	11870
Area Deliveries	-54	-54	-54	-62	-62
Area Design Flow Req'mts	10520	10292	11315	11580	11656

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	380	372	409	419	421
Flow Into Area	0	0	0	0	0
Area Required Receipts	380	372	409	419	421
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	373	365	402	411	414

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	10712	10480	11517	11793	11870
Flow Into Area	0	0	0	0	0
Area Required Receipts	10712	9964	10947	11326	11870
Area Deliveries	-44	-48	-48	-52	-52
Area Design Flow Req'mts	10530	9788	10759	11129	11666

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	380	372	409	419	421
Flow Into Area	0	0	0	0	0
Area Required Receipts	380	354	389	402	421
Area Deliveries	-2	-2	-2	-2	-2
Area Design Flow Req'mts	374	347	382	395	414

Design Flow Requirements

Medicine Hat Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	8863	8829	8563	8312	8331
Flow Into Area	0	0	0	0	0
Area Required Receipts	8861	8829	8563	8312	8331
Area Deliveries	-6726	-6813	-7029	-7053	-7053
Area Design Flow Req'mts	2022	1903	1424	1152	1170

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PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	315	313	304	295	296
Flow Into Area	0	0	0	0	0
Area Required Receipts	315	313	304	295	296
Area Deliveries	-239	-242	-249	-250	-250
Area Design Flow Req'mts	72	68	51	41	42

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	8863	8829	8563	8312	8331
Flow Into Area	0	0	0	0	0
Area Required Receipts	7570	7575	7287	7235	7507
Area Deliveries	-5301	-5400	-5674	-5759	-5771
Area Design Flow Req'mts	2172	2078	1519	1383	1640

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PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
FS Productive Capability	315	313	304	295	296
Flow Into Area	0	0	0	0	0
Area Required Receipts	269	269	259	257	266
Area Deliveries	-188	-192	-201	-204	-205
Area Design Flow Req'mts	77	74	54	49	58

APPENDIX 4.2

PEAK EXPECTED FLOWS

The following tables present both the winter and summer peak expected flows for areas governed by a receipt dominant flow condition.

The Peak Expected Flows, described as Area Peak Expected Flows in the tables, are calculated by subtracting the Area Minimum Deliveries and area fuel (not shown) from the Area Peak Receipts. In some areas, Flow Into Area is added to the Area Peak Receipts and represents the flow from other design areas.

Peak Expected Flows

Upper Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	24428	23080	28241	32139	33880
Flow Into Area	0	0	0	0	0
Area Peak Receipts	24428	23080	28241	32139	33880
Area Deliveries	-13	-13	-13	-13	-13
Area Peak Expected Flow	24102	22771	27866	31713	33433

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	867	819	1002	1141	1203
Flow Into Area	0	0	0	0	0
Area Peak Receipts	867	819	1002	1141	1203
Area Deliveries	0	0	0	0	0
Area Peak Expected Flow	855	808	989	1126	1187

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	24428	23080	28241	32139	33880
Flow Into Area	0	0	0	0	0
Area Peak Receipts	24428	23080	28241	32139	33880
Area Deliveries	-11	-11	-11	-11	-11
Area Peak Expected Flow	24104	22773	27868	31715	33435

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	867	819	1002	1141	1203
Flow Into Area	0	0	0	0	0
Area Peak Receipts	867	819	1002	1141	1203
Area Deliveries	0	0	0	0	0
Area Peak Expected Flow	856	808	989	1126	1187

Peak Expected Flows

Central Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	23046	23232	22379	23061	23585
Flow Into Area	24102	22771	24866	9713	11433
Area Peak Receipts	23046	23232	22379	23061	23585
Area Deliveries	-820	-210	-210	-583	-587
Area Peak Expected Flow	46033	45495	46747	31895	34128

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	818	825	794	819	837
Flow Into Area	855	808	883	345	406
Area Peak Receipts	818	825	794	819	837
Area Deliveries	-29	-7	-7	-21	-21
Area Peak Expected Flow	1634	1615	1659	1132	1211

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	23046	23232	22379	23061	23585
Flow Into Area	24104	19773	5868	9715	11435
Area Peak Receipts	23046	23232	22379	23061	23585
Area Deliveries	-65	-65	-65	-67	-69
Area Peak Expected Flow	46790	42643	27894	32413	34648

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	818	825	794	819	837
Flow Into Area	856	702	208	345	406
Area Peak Receipts	818	825	794	819	837
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	1661	1514	990	1150	1230

Peak Expected Flows

Lower Peace River Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	81228	83667	77396	74440	70880
Flow Into Area	46033	45495	46747	31895	34128
Area Peak Receipts	81228	83667	77396	74440	70880
Area Deliveries	-454	-460	-465	-473	-479
Area Peak Expected Flow	125764	127629	122685	104907	103620

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	2883	2970	2747	2642	2516
Flow Into Area	1634	1615	1659	1132	1211
Area Peak Receipts	2883	2970	2747	2642	2516
Area Deliveries	-16	-16	-17	-17	-17
Area Peak Expected Flow	4464	4530	4355	3724	3678

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	81228	83667	77396	74440	70880
Flow Into Area	46790	42643	27894	32413	34648
Area Peak Receipts	81228	83667	77396	74440	70880
Area Deliveries	-255	-255	-255	-255	-255
Area Peak Expected Flow	126720	124981	104042	105643	104364

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	2883	2970	2747	2642	2516
Flow Into Area	1661	1514	990	1150	1230
Area Peak Receipts	2883	2970	2747	2642	2516
Area Deliveries	-9	-9	-9	-9	-9
Area Peak Expected Flow	4498	4436	3693	3750	3704

Peak Expected Flows

Marten Hills Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	4721	5620	6717	7435	7312
Flow Into Area	0	0	0	0	0
Area Peak Receipts	4721	5620	6717	7435	7312
Area Deliveries	-176	-177	-177	-183	-183
Area Peak Expected Flow	4484	5371	6454	7157	7035

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	168	199	238	264	260
Flow Into Area	0	0	0	0	0
Area Peak Receipts	168	199	238	264	260
Area Deliveries	-6	-6	-6	-6	-6
Area Peak Expected Flow	159	191	229	254	250

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	4721	5620	6717	7435	7312
Flow Into Area	0	0	0	0	0
Area Peak Receipts	4721	5620	6717	7435	7312
Area Deliveries	-58	-58	-58	-59	-59
Area Peak Expected Flow	4603	5490	6573	7281	7159

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	168	199	238	264	260
Flow Into Area	0	0	0	0	0
Area Peak Receipts	168	199	238	264	260
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	163	195	233	258	254

Peak Expected Flows

North of Bens Lake Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	24352	22830	22305	24290	27179
Flow Into Area	2000	2000	5000	24000	24000
Area Peak Receipts	24352	22830	22305	24290	27179
Area Deliveries	-22635	-26136	-28516	-28966	-30563
Area Peak Expected Flow	3404	-1599	-1498	19012	20268

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	864	810	792	862	965
Flow Into Area	71	71	177	852	852
Area Peak Receipts	864	810	792	862	965
Area Deliveries	-803	-928	-1012	-1028	-1085
Area Peak Expected Flow	121	-57	-53	675	719

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	24352	22830	22305	24290	27179
Flow Into Area	2000	5000	24000	24000	24000
Area Peak Receipts	24332	22830	22305	24290	27179
Area Deliveries	-15664	-18514	-20730	-21349	-22798
Area Peak Expected Flow	10356	9024	25288	26630	28033

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	864	810	792	862	965
Flow Into Area	71	177	852	852	852
Area Peak Receipts	864	810	792	862	965
Area Deliveries	-556	-657	-736	-758	-809
Area Peak Expected Flow	368	320	898	945	995

Peak Expected Flows

South of Bens Lake Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	22215	21934	22728	24559	24519
Flow Into Area	9404	4401	4502	25012	26268
Area Peak Receipts	22215	21934	22728	24559	24519
Area Deliveries	-273	-279	-292	-300	-312
Area Peak Expected Flow	31060	25775	26648	48956	50160

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	788	779	807	872	870
Flow Into Area	334	156	160	888	932
Area Peak Receipts	788	779	807	872	870
Area Deliveries	-10	-10	-10	-11	-11
Area Peak Expected Flow	1102	915	946	1738	1780

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	22215	21934	22728	24559	24519
Flow Into Area	16356	15024	31288	32630	34033
Area Peak Receipts	22197	21934	22728	24559	24519
Area Deliveries	-121	-126	-132	-140	-146
Area Peak Expected Flow	38148	36550	53593	56733	58092

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	788	779	807	872	870
Flow Into Area	581	533	1111	1158	1208
Area Peak Receipts	788	779	807	872	870
Area Deliveries	-4	-4	-5	-5	-5
Area Peak Expected Flow	1354	1297	1902	2014	2062

Peak Expected Flows

Edson Mainline Design Sub Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	52858	53331	50558	50321	52211
Flow Into Area	128248	131000	127139	110065	108655
Area Peak Receipts	52858	53331	50558	50321	52211
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	180426	183645	177047	159738	160193

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	1876	1893	1795	1786	1853
Flow Into Area	4552	4650	4513	3907	3857
Area Peak Receipts	1876	1893	1795	1786	1853
Area Deliveries	0	0	0	0	0
Area Peak Expected Flow	6404	6518	6284	5670	5686

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	53685	54108	51284	50996	52835
Flow Into Area	129323	128471	108615	110924	109522
Area Peak Receipts	53685	54108	51284	50996	52835
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	182317	181882	159239	161264	161678

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	1905	1920	1820	1810	1875
Flow Into Area	4590	4560	3855	3937	3887
Area Peak Receipts	1905	1920	1820	1810	1875
Area Deliveries	0	0	0	0	0
Area Peak Expected Flow	6471	6456	5652	5724	5739

Peak Expected Flows

Rimbey-Nevis Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	42236	43823	41335	41168	42019
Flow Into Area	0	0	0	0	0
Area Peak Receipts	42236	43823	41335	41168	42019
Area Deliveries	-3859	-3859	-3865	-3866	-3867
Area Peak Expected Flow	37835	39402	36940	36774	37613

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	1499	1555	1467	1461	1491
Flow Into Area	0	0	0	0	0
Area Peak Receipts	1499	1555	1467	1461	1491
Area Deliveries	-137	-137	-137	-137	-137
Area Peak Expected Flow	1343	1399	1311	1305	1335

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	42236	43823	41335	41168	42019
Flow Into Area	0	0	0	0	0
Area Peak Receipts	42236	43823	41335	41168	42019
Area Deliveries	-3255	-3255	-3255	-3255	-3255
Area Peak Expected Flow	38438	40005	37549	37384	38224

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	1499	1555	1467	1461	1491
Flow Into Area	0	0	0	0	0
Area Peak Receipts	1499	1555	1467	1461	1491
Area Deliveries	-116	-116	-116	-116	-116
Area Peak Expected Flow	1364	1420	1333	1327	1357

Peak Expected Flows

South and Alderson Design Area

10³m³/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	13142	13028	14141	14634	15085
Flow Into Area	0	0	0	0	0
Area Peak Receipts	13142	13028	14141	14634	15085
Area Deliveries	-54	-54	-54	-62	-62
Area Peak Expected Flow	12920	12806	13905	14384	14829

mmcf/d

PW					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	466	462	502	519	535
Flow Into Area	0	0	0	0	0
Area Peak Receipts	466	462	502	519	535
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	459	455	494	511	526

10³m³/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	13142	13028	14141	14634	15085
Flow Into Area	0	0	0	0	0
Area Peak Receipts	13142	13028	14141	14634	15085
Area Deliveries	-44	-48	-48	-52	-52
Area Peak Expected Flow	12930	12812	13911	14394	14839

mmcf/d

PS					
Gas Year	2007/08	2008/09	2009/10	2010/11	2011/12
Peak Productive Capability	466	462	502	519	535
Flow Into Area	0	0	0	0	0
Area Peak Receipts	466	462	502	519	535
Area Deliveries	-2	-2	-2	-2	-2
Area Peak Expected Flow	459	455	494	511	527