

**NWNatural Gas
Staff Gas Cost Allocation**

Exhibit (JMR-4)
Docket UG-000073
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12/99 PGA Demand Costs	System	Wash. Embedded 7.7661%	Gen Sales Service 1	Res Sales Service 2	Com & Ind Service 3	Large Firm Service 4	Seasonal Swing 11	Firm, High Load Fact 21	Inter Dual Fuel Serv 22	High Priority Interruptible 23	Res. All Gas 24	Res. Heat Dry Out 27	LT Inter Incentive 55			
Pipeline Capacity:																
1	TF-1 Demand Charge - Peak	\$ 13,410,103	\$ 1,041,438	PDAY	876	244,773	276,231	43,748	239	39,706	711	6,022	349,689	13,152	66,291	
2	TF-1 Demand Charge - Avg	19,449,742	1,510,481	COM1_EXT	2,820	310,022	359,128	79,758	1,667	128,625	1,996	30,081	462,144	32,283	101,956	
3	TF-2 Demand Charge	444,894	34,551	SEASONAL_INCR	104	9,879	4,609	2,911	49	1,554	46	-	14,991	393	15	
4	Canadian Demand Charge - Peak	15,595,068	1,211,124	PDAY	1,018	284,655	321,238	50,876	278	46,176	826	7,003	406,665	15,295	77,092	
5	Canadian Demand Charge - Avg	22,618,771	1,756,590	COM1_EXT	3,280	360,535	417,642	92,754	1,938	149,583	2,321	34,983	537,443	37,543	118,568	
6	K.B. Pipeline	224,258	17,416	SEASONAL_INCR	53	4,980	2,323	1,467	25	783	23	-	7,556	198	8	
7	Temporary Capacity - Peak	1,156,088	89,783	PDAY	75	21,102	23,814	3,772	21	3,423	61	519	30,147	1,134	5,715	
8	Temporary Capacity - Avg	1,676,767	130,219	COM1_EXT	243	26,727	30,961	6,876	144	11,089	172	2,593	39,842	2,783	8,790	
9	Capacity Release Credit - Peak	(253,499)	(19,687)	PDAY	(17)	(4,627)	(5,222)	(827)	(5)	(751)	(13)	(114)	(6,610)	(249)	(1,253)	
Storage Capacity:																
10	SGS-2 Demand	283,768	22,038	SEASONAL_INCR	66	6,301	2,940	1,857	31	991	29	-	9,561	251	10	
11	SGS-2 Capacity	253,521	19,689	SEASONAL_INCR	59	5,629	2,627	1,659	28	885	26	-	8,542	224	9	
12	LS-1 Demand	113,631	8,825	PDAY(F)	8	2,230	2,517	399	2	362	-	-	3,187	120	-	
13	LS-2 Capacity	1,045,295	81,178	PDAY(F)	73	20,518	23,155	3,667	20	3,328	-	-	29,313	1,103	-	
14	Total Gas Supply Demand Costs	\$ 76,018,407	\$ 5,903,644		\$ 8,660	\$ 1,292,725	\$ 1,461,964	\$ 288,917	\$ 4,438	\$ 385,755	\$ 6,198	\$ 81,088	\$ 1,892,470	\$ 104,230	\$ 377,199	
15	# of Customers	\$ 2,967,714			246	14,367	3,397	28	25	162	1	5	17,250	1,305	14	
16	Avg Rate	\$ 0.10074			\$ 0.07914	\$ 0.10747	\$ 0.10492	\$ 0.09337	\$ 0.06863	\$ 0.07730	\$ 0.08005	\$ 0.06948	\$ 0.10555	\$ 0.08322	\$ 0.09536	
17	Per Company Allocation				\$ 0.06430	\$ 0.11288	\$ 0.10090	\$ 0.15957	\$ 0.01889	\$ 0.06371	\$ 0.06479	\$ 0.02919	\$ 0.10788	\$ 0.13602	\$ 0.00602	
18	Dec 1, 1999 PGA				\$ 0.10621	\$ 0.10621	\$ 0.10621	\$ 0.10621	\$ 0.10621	\$ 0.10621	\$ 0.01279	\$ 0.01279	\$ 0.10621	\$ 0.10621	\$ 0.04458	
19	Peak - Sales	40.81%														
20	Avg - Sales	59.19%														
					1	2	3	4	11	21	22	23	24	27	55	
21	<u>Allocators:</u>				58,603,613	109,424	12,028,237	13,933,442	3,094,463	64,665	4,990,402	77,426	1,167,099	17,930,261	1,252,510	3,955,684
22					100%	0.19%	20.52%	23.78%	5.28%	0.11%	8.52%	0.13%	1.99%	30.60%	2.14%	6.75%
23					7,161,606	21,592	2,047,637	955,410	603,364	10,227	322,012	9,536	-	3,107,215	81,474	3,139
24					100%	0.30%	28.59%	13.34%	8.42%	0.14%	4.50%	0.13%	0.00%	43.39%	1.14%	0.04%
25					309,207	260	72,674	82,014	12,989	71	11,789	211	1,788	103,824	3,905	19,682
26					100%	0.08%	23.50%	26.52%	4.20%	0.02%	3.81%	0.07%	0.58%	33.58%	1.26%	6.37%
27					287,526	260	72,674	82,014	12,989	71	11,789			103,824	3,905	
28					100%	0.09%	25.28%	28.52%	4.52%	0.02%	4.10%	0.00%	0.00%	36.11%	1.36%	0.00%
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30																
31																
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Demand Costs Allocated to Sch 22 & 23	\$ 87,286	
Schedule 22 & 23 Volumes	1,244,525	
Average Demand Rate For Sch 22 & 23	\$ 0.07014	
Demand Costs Shifted to Sch 22 & 23	\$ 71,374	(\$ 0.07014-\$ 0.01279)*1,244,525
Firm Sales Volumes	53,403,404	
Reduction to Firm Demand Increment	\$ 0.00134	