

**EXHIBIT NO. \_\_\_(EMM-4)  
DOCKET NO. UE-04\_\_\_/UG-04\_\_\_  
2004 PSE GENERAL RATE CASE  
WITNESS: ERIC M. MARKELL**

**BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**PUGET SOUND ENERGY, INC.,**

**Respondent.**

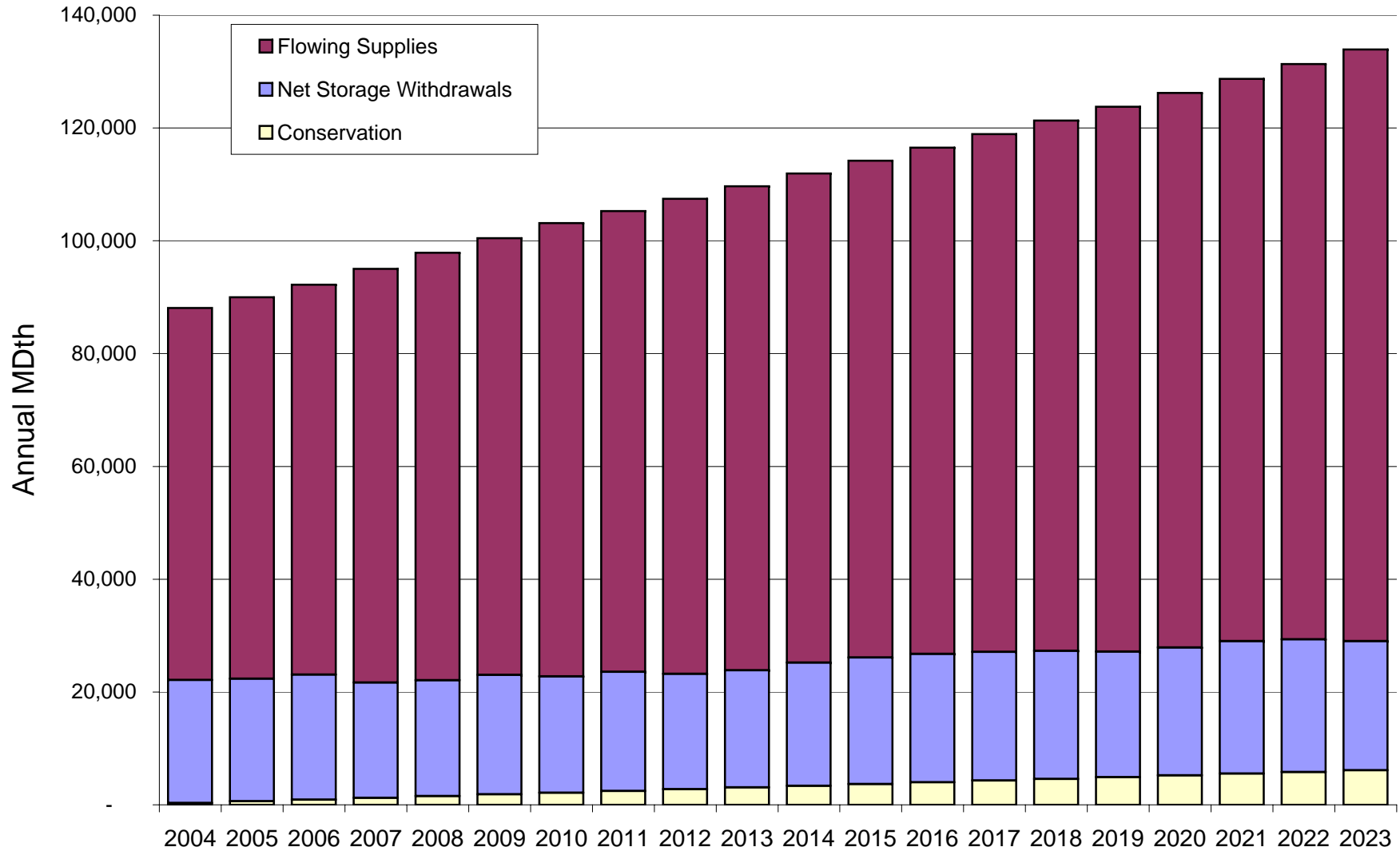
**Docket No. UE-04\_\_\_  
Docket No. UG-04\_\_\_**

**THIRD EXHIBIT TO PREFILED DIRECT TESTIMONY  
OF ERIC M. MARKELL (NONCONFIDENTIAL)  
ON BEHALF OF PUGET SOUND ENERGY, INC.**

**APRIL 5, 2004**

# PSE Gas Customer - Gross Demand and Gas Supply Requirements

(Source- August 2003 LCP Update workpapers)



## Gas Load Growth and Growth in Flowing Supplies

Line No.	Year	Total Annual Sales before Conservation (MDth)	Conservation (MDth)	Total Annual Sales After Conservation (MDth)	% Change in Sales	Net Storage Withdrawals (MDth)	Flowing Supplies (MDth)	% Change in Flowing Supplies
	a	b	d	(b - d)	c	e	(b-d-e)	f
1	2004	88,071	306	87,765		21,836	65,929	
2	2005	90,009	613	<b>89,396</b>	1.9%	21,737	67,659	2.6%
3	2006	92,237	919	91,318	2.1%	22,148	69,170	2.2%
4	2007	95,007	1,226	93,781	2.7%	20,461	73,320	6.0%
5	2008	97,874	1,532	96,342	2.7%	20,528	75,814	3.4%
6	2009	100,485	1,839	98,646	2.4%	21,205	77,441	2.1%
7	2010	103,154	2,145	<b>101,009</b>	2.4%	20,630	80,379	3.8%
8	2011	105,266	2,451	102,815	1.8%	21,113	81,702	1.6%
9	2012	107,438	2,758	104,680	1.8%	20,474	84,206	3.1%
10	2013	109,683	3,064	106,619	1.8%	20,764	85,855	2.0%
11	2014	111,934	3,371	108,563	1.8%	21,835	86,728	1.0%
12	2015	114,207	3,677	110,530	1.8%	22,441	88,089	1.6%
13	2016	116,535	3,984	112,551	1.8%	22,782	89,769	1.9%
14	2017	118,912	4,290	114,622	1.8%	22,828	91,794	2.3%
15	2018	121,307	4,597	116,710	1.8%	22,676	94,034	2.4%
16	2019	123,749	4,903	118,846	1.8%	22,235	96,611	2.7%
17	2020	126,226	5,209	121,017	1.8%	22,661	98,356	1.8%
18	2021	128,732	5,516	123,216	1.7%	23,498	99,718	1.4%
19	2022	131,331	5,822	125,509	1.8%	23,527	101,982	2.3%
20	2023	133,938	6,129	127,809	1.8%	22,879	104,930	2.9%
21	Average:				1.9%			2.5%

\* Estimated average annual increase =  $[(101,009 - 89,396) / 89,396] / 5 \text{ Years} = 2.6\%$   
 Estimated increase in volume =  $[(101,009 - 89,396) / 365] * 1,000 = 31,816$