

H  
CABLE HUSTON<sup>LLP</sup>

SHANNON KIMMEL  
Legal Assistant

[skimmel@cablehuston.com](mailto:skimmel@cablehuston.com)

August 6, 2015

**VIA ELECTRONIC FILING  
& FIRST CLASS MAIL**

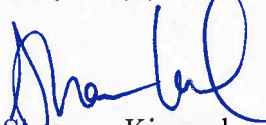
Oregon Public Utility Commission  
Attn: Filing Center  
3930 Fairview Industrial Drive SE  
PO Box 1088  
Salem, Oregon 97308

**Re:** *In the Matter of Cascade Natural Gas - Application for General Rate Revision*  
(Docket No. UG-287)  
**Northwest Industrial Gas Users' Replacement Exhibit NWIGU 103**

Dear Filing Center:

Attached is NWIGU 103 Page 2 of 2 to replace the same named page that was locked due to a password protection. The attached document has no password attached. Thank you for your patience and please let me know if you need anything further.

Very truly yours,

  
Shannon Kimmel

SK:  
Enclosure

4844-9122-5894, v. 1

**Cascade Natural Gas Corp.**  
**Oregon Jurisdiction**  
**Long Run Incremental Cost (LRIC) Study**  
**Summary**

Line #	Description	Total	101	104	105	111	163+164	170	900
			Residential Service core	Commercial Service core	Industrial Service core	Large Volume Service core	General Distribution non-core	Interruptible core	Special Contracts non-core
1	Billing Determinants								
2	Peak Day Forecast	83,138	46,988	32,086	2,617	1,447	0	0	0
3	Customer Count	69,254	59,252	9,839	111	13	32	4	4
4	Throughput	33,745,469	3,944,203	2,790,590	253,388	157,985	3,478,380	276,803	22,844,121
5									
6	<b>O&amp;M Costs</b>								
7	Gas Supply Related								
8	Gas Planning	\$ 26,165	\$ 11,922	\$ 8,191	\$ 681	\$ 386	\$ 640	\$ 143	\$ 4,201
9	Gas Supply	\$ 44,079	\$ 17,347	\$ 12,273	\$ 1,114	\$ 695	\$ 1,511	\$ 1,217	\$ 9,922
10	Gas Control	\$ 95,077	\$ 37,043	\$ 26,208	\$ 2,380	\$ 1,484	\$ 12,058	\$ 2,600	\$ 13,305
11	Customer Related								
12	Meter Reading	\$ 253,003	\$ 211,393	\$ 35,101	\$ 396	\$ 1,499	\$ 3,691	\$ 461	\$ 461
13	Customer Acct records & collect.	\$ 1,229,953	\$ 1,048,824	\$ 174,154	\$ 1,964	\$ 230	\$ 3,825	\$ 478	\$ 478
14	Billing Postage & Printing	\$ 346,211	\$ 296,208	\$ 49,184	\$ 555	\$ 65	\$ 160	\$ 20	\$ 20
15	Uncollectible	\$ 278,894	\$ 226,650	\$ 52,214	\$ 30	\$ -	\$ -	\$ -	\$ -
16	<b>Subtotal: O&amp;M Costs</b>	<b>\$ 2,273,382</b>	<b>\$ 1,849,385</b>	<b>\$ 357,326</b>	<b>\$ 7,120</b>	<b>\$ 4,359</b>	<b>\$ 21,884</b>	<b>\$ 4,920</b>	<b>\$ 28,388</b>
17									
18	<b>Customer Investment Carrying Costs</b>								
19	Meter	\$ 2,935,074	\$ 1,600,768	\$ 1,179,345	\$ 95,899	\$ 6,318	\$ 35,146	\$ 7,856	\$ 9,742
20	Service	\$ 12,417,164	\$ 10,226,363	\$ 1,885,694	\$ 51,727	\$ 16,710	\$ 177,124	\$ 46,631	\$ 12,914
21	Mains	\$ 11,632,431	\$ 4,526,025	\$ 1,085,696	\$ 921,423	\$ 241,753	\$ 2,758,597	\$ 382,489	\$ 1,716,447
22	<b>Subtotal: Customer Investment Costs</b>	<b>\$ 26,984,669</b>	<b>\$ 16,353,156</b>	<b>\$ 4,150,736</b>	<b>\$ 1,069,050</b>	<b>\$ 264,781</b>	<b>\$ 2,970,867</b>	<b>\$ 436,976</b>	<b>\$ 1,739,103</b>
23									
24	<b>System Core Main Carrying Costs</b>								
25	Capacity	\$ 37,706,253	\$ 21,302,440	\$ 14,546,501	\$ 1,186,418	\$ 655,982	\$ -	\$ -	\$ 14,912
26									
27	Commodity	\$ 12,881,733	\$ 1,675,488	\$ 1,185,436	\$ 107,639	\$ 67,111	\$ 1,477,607	\$ 117,585	\$ 8,250,866
28	<b>Subtotal: System Core Main Costs</b>	<b>\$ 50,587,986</b>	<b>\$ 22,977,928</b>	<b>\$ 15,731,937</b>	<b>\$ 1,294,056</b>	<b>\$ 723,094</b>	<b>\$ 1,477,607</b>	<b>\$ 117,585</b>	<b>\$ 8,265,778</b>
29									
30	<b>LRIC - Distribution</b>	<b>\$ 79,846,037</b>	<b>\$ 41,180,470</b>	<b>\$ 20,239,999</b>	<b>\$ 2,370,226</b>	<b>\$ 992,234</b>	<b>\$ 4,470,358</b>	<b>\$ 559,481</b>	<b>\$ 10,033,269</b>
31									
32	Fuctional Cost Assignment by LRIC								
33	Scheduling & Planning	\$ 165,321	\$ 66,311	\$ 46,673	\$ 4,176	\$ 2,565	\$ 14,208	\$ 3,960	\$ 27,428
34	Meter Reading, Billing etc.	\$ 2,108,061	\$ 1,783,074	\$ 310,653	\$ 2,944	\$ 1,795	\$ 7,676	\$ 960	\$ 960
35	Meters, Services & Mains extensions	\$ 26,984,669	\$ 16,353,156	\$ 4,150,736	\$ 1,069,050	\$ 264,781	\$ 2,970,867	\$ 436,976	\$ 1,739,103
36	Sysctem Core Mains	\$ 50,587,986	\$ 22,977,928	\$ 15,731,937	\$ 1,294,056	\$ 723,094	\$ 1,477,607	\$ 117,585	\$ 8,265,778
37	<b>Total</b>	<b>\$ 79,846,037</b>	<b>\$ 41,180,470</b>	<b>\$ 20,239,999</b>	<b>\$ 2,370,226</b>	<b>\$ 992,234</b>	<b>\$ 4,470,358</b>	<b>\$ 559,481</b>	<b>\$ 10,033,269</b>
38									
39	Non-Gas Revenue at Current Rates	\$ 28,954,127	\$ 16,312,863	\$ 7,513,446	\$ 472,884	\$ 230,926	\$ 2,295,862	\$ 340,717	\$ 1,787,429
40	Proposed Increase	\$ 961,000							
41	<b>LRIC Based Non-gas Rev Req.</b>	<b>\$ 29,915,127</b>	\$ 15,428,680	\$ 7,583,121	\$ 888,029	\$ 371,750	\$ 1,674,865	\$ 209,615	\$ 3,759,066
42	Revenue to Cost Ratio		1.06	0.99	0.53	0.62	1.37	1.63	0.48
43									
44	Incremental Non-gas Revenue Req.	\$ 961,000	\$ (884,183)	\$ 69,675	\$ 415,145	\$ 140,825	\$ (620,997)	\$ (131,102)	\$ 1,971,637