Exhibit No. ____ T (YKGM-1T) Docket No. UG-060265 Witness: Yohannes K.G. Mariam

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

CASCADE NATURAL GAS CORPORATION,

Respondent.

DOCKET NO. UG-060265

ERRATA TO TESTIMONY OF

YOHANNES K.G. MARIAM, PH.D.

STAFF OF WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

September 25, 2006

1		II. SCOPE OF TESTIMONY
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3	Q.	What is the scope of your testimony?
4	А.	I present staff's recommendation regarding Cascade's proposed temperature
5		normalization adjustment, including the impact on the Company's proforma revenue
6		requirement. I also present staff's recommendations with respect to Cascade's
7		natural gas cost of service model.
8		
9		III. SUMMARY OF TESTIMONY
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11	Q.	Please summarize staff's temperature normalization adjustment.
12	А.	Staff proposes changes to the Company's temperature normalization adjustment that
13		will increase Cascade's normalized test year natural gas consumption by 7,140,504
14		therms. This results in an increase in Cascade's proforma revenue of about \$1,527
15		million. (Exhibit No. (YKGM-2), Tables 1, 3, 4, 5, 6, 7, and 8). Mr. Parvinen's
16		testimony presents the overall revenue and rate impact of this adjustment.
17		The Commission has consistently determined normal temperatures by using the most
18		recent 30 years of actual temperature data published by the National Oceanographic
19		and Atmospheric Administration (NOAA). Cascade proposes to replace this long-
20		established methodology with one that uses data from a simple linear statistical
21		model to estimate 55 years of data (1951 to 2005). Cascade contends that its proposal
22		is intended to account for the effects of global warming. However, Cascade's

Testimony of Yohannes K.G. Mariam Exhibit No. ___ T (YKGM-1T)
Docket No. UG-060265 Page 3
REVISED SEPTEMBER 25, 2006

1	Q.	Please summarize the impact of staff's proposed changes to Cascade's weather
2		normalization method.
3	A.	Staff's proposed changes to the Company's temperature normalization adjustment
4		produce statistically robust estimates (Exhibit No (YKGM-2), Table 1). The
5		proposed changes increase Cascade's normalized test-year natural gas consumption
6		by 7,140,504 therms ((Exhibit No (YKGM-2), Tables 3, 4, 5, 6, 7, and 8). This
7		results in an increase in Cascade's proforma revenue of about \$1,527 million.
8		
9	Q.	Please explain the robustness of staff's proposed temperature normalization
10		method.
11	A.	Staff's analysis shows that the actual versus estimated use per customer (UPC) was
12		54.27 and 56.05 therms per month for residential and 283.25 and 286.71 therms per
13		month for commercial customers, respectively. These results show a variation
14		between actual and estimated UPC of about two percent to four percent (Exhibit No.
15		(YKGM-2, Table 2). This level of accuracy can be considered robust given that
16		the data is monthly and not daily, and the time period used is only five years.
17		
18	Q.	Please summarize the weather normalization methodology that staff
19		recommends Cascade should use.
20	A.	Staff recommends that Cascade submit to the Commission the results of a weather
21		normalization study based on at least five years of daily or 10 years of monthly rate
22		schedule data by service territory. Cascade should implement a robust statistical model

Testimony of Yohannes K.G. Mariam Exhibit No. ___ T (YKGM-1T)
Docket No. UG-060265 Page 19
REVISED SEPTEMBER 25, 2006