RECEIVED-DOCKETING DIV

2010 MAY 28 PM 2: 22

PUCO PUBLIC UTILITIES COMMISSION OF OHIO DIVISION OF FORECASTING AND SITING

In the Matter of the Long-Term Forecast Report of Natural Gas Demand of Suburban Natural Gas Company

Case No. 09-116-GA-FOR

ECEIVED-DOCKETING DIV

41

2010 MAY 28 PM 2: 22

PUC

2010

LONG-TERM FORECAST REPORT OF NATURAL GAS DEMAND OF SUBURBAN NATURAL GAS COMPANY

David L. Pemberton, Jr., President Suburban Natural Gas Company 2626 Lewis Center Road Lewis Center, OH 43035-9206 (740) 548-2450

Dated: June 1, 2010

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business. Technician A° Date Processed 5/28/10

2010

LONG-TERM FORECAST REPORT FOR GAS DEMAND, GAS SUPPLY, AND FACILITY PROJECTIONS

OF

SUBURBAN NATURAL GAS COMPANY 2626 LEWIS CENTER ROAD LEWIS CENTER, OH 43035-9206

TO THE

PUBLIC UTILITIES COMMISSION OF OHIO DIVISION OF FORECASTING AND SITING

PREFACE

Suburban Natural Gas Company has prepared this Long-Term Forecast Report as required by Section 4935.04 of the Ohio Revised Code. The organization of this report is based upon the Division's Rules and Regulations contained in Chapter 4901 of the Ohio Administrative Code.

Table of Contents

Introduction

About Suburban Natural Gas Growth Gas Risk Management Contracts Storage Hedging

4901:5-7-04 Gas and natural gas demand forecasts for gas distribution companies serving fifteen thousand to one hundred thousand customers.

- (A) Definitions
- (B) General Guidelines
- (C) Special Subject Area
- (D) Forecast Documentation
- (E) Demand Forecast Forms
 - (1) FG1-1 Service Area Natural Gas Demand
 - (2) FG1-3 Monthly Gas Send-Out
 - (3) FG1-4 Range of Forecasts
 - (4) FG1-5 Peak and Forecast Design Day Requirements
 - (5) FG1-6 Self-Help and Other Transported Gas

4901:5-7-05 Gas and natural gas supply forecasts for gas distribution companies serving fifteen thousand to one hundred thousand customers.

- (A) General Guidelines
- (B) Special Subject Areas
- (C) Gas and Natural Gas Supply Forecast Discussion
- (D) Projected Sources of Gas
- (E) Reliability of Gas Sources
- (F) Analysis of System Peak and Winter Season Planning
- (G) Supply Forecast Forms
 - (1) FG2-1 Gas Supplies
 - (2) FG2-2 Gas Prices
 - (3) FG2-3 Peak and Design Day Supply
 - (4) FG2-4 Natural Gas Storage Facilities
 (5) FG2-5 Propane Facilities

 - (6) FG2-6 Other Peaking Facilities
- (H) Long-Term Strategic Supply Plan

Heating Degree Days

Projected Population: County Totals

Suburban Natural Gas

Suburban currently has over four hundred and twenty miles of natural gas distribution facilities located in Wood, Henry, Hancock, Lucas, Delaware and Marion Counties.

Our offices are located in Cygnet and Lewis Center, Ohio.

Suburban currently provides natural gas service to 15,851 residential, commercial and industrial customers in Ohio.

In Northwest Ohio, Suburban has entered into service agreements with 14 municipalities in the areas surrounding Bowling Green and Findlay, providing natural gas to over 5,616 residential customers.

In Central Ohio, Suburban services the west side of the Polaris Centers of Commerce including the Chase Bank Corporate Center, The Polaris Fashion Mall and the Polaris Towne Center Strip Mall. In addition, Suburban provides residential service to over 10,235 customers in Delaware and Marion Counties.

A breakdown of our customer base by major classification is:

In Northwest Ohio:

Residential	5171
Commercial	432
Industrial	15

In Central Ohio:

Residential	9659
Commercial	574
Industrial	0

Based on the last five years of actual billed usage, residential customers use approximately 854 ccf per year. commercial customers use approximately 5236 ccf per year. While industrial customers have used about 18,833 ccf per year.

Over the last five years the weather has been slightly warmer than normal.

This data is based on actual billed usage The data has not been normalized Base Load is estimated from mid-summer usage

Average

R 0.0854 MMCF C 0.5236

1.7500

Usage MMCF

Industrial

Totals

<u>16</u>

14141

.

1 1.8833

2009 Residential Commercial Industrial Totals	Count 14830 1006 <u>15</u> 15851	Consumption 1265 588 <u>31</u> 1884	Base Load 264 156 <u>10</u> 430	Heating Load 1001 432 <u>21</u> 1454	Usage Per Customer 0.0853 0.5845 2.0667
2008 Residential Commercial Industrial Totals	Count 14605 997 <u>15</u> 15617	Consumption 1279 543 <u>31</u> 1853	Base Load 252 144 <u>10</u> 406	Heating Load 1001 432 <u>21</u> 1454	Usage Per Customer 0.0876 0.5446 2.0667
2007 Residential Commercial Industrial Totals	Count 14328 969 <u>15</u> 15312	Consumption 1201 492 <u>30</u> 1723	Base Load 228 132 <u>10</u> 370	Heating Load 1001 432 <u>21</u> 1454	Usage Per Customer 0.0838 0.5077 2.0000
2006 Residential Commercial Industrial Totals	Count 13958 940 <u>15</u> 14913	Consumption 1113 447 <u>23</u> 1583	Base Load 204 144 <u>10</u> 358	Heating Load 1001 432 <u>21</u> 1454	Usage Per Customer 0.0797 0.4755 1.5333
2005 Residential Commercial	Count 13182 943	Consumption 1193 477	Base Load 204 108	Heating Load 1001 432	Usage Per Customer 0.0905 0.5058

<u>10</u>

322

<u>21</u>

1454

<u>28</u>

1698

Projected Population Growth by County

The customer base of Suburban Natural Gas is primarily located in four counties. The counties are Delaware, Marion, Henry and Wood.

Projected I	Population: County Totals
Source:	Ohio Department of Development

	2010	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Delaware	1 61 ,730	188,250	215,480	241,780	266,200
Henry	29,540	29,850	29,990	30,200	30,110
Marion	66,210	66,750	67,190	67,810	68,200
Wood	127,020	129,500	133,330	136,480	141,880

Delaware County has been the fastest growing county in Ohio for the past decade. This county represents the highest area of growth for Suburban Natural Gas. Since 2000, our customer base in Delaware County has increase by 7,206 customers.

The Ohio Department of Development projects that the population of Delaware County will increase by 33 percent in the next ten years. This growth will increase our Central Ohio customer base into the 14,000 plus range.

In Northwest Ohio, the population growth of Henry and Wood County combined is expected to grow about four percent over the next ten years. It is anticipated that our customer growth would be about the same over that time period.

Gas Management

Suburban Natural Gas started working with Atmos Energy Marketing in April 0f 2007 as our Asset manager. We collectively created a plan to manage firm requirements for our customers while maximizing the value of our assets.. We work together to forecast firm demand requirements by looking at the 30 year historical weather normal to determine a heating degree day forecast and hence volumes that we expect our customer base to use. Since our customer base is highly heat sensitive (mostly residential), this is an effective way to forecast our firm demand requirements

We have worked closely with Atmos to develop a gas supply plan that takes into consideration our transportation and storage assts. Simply put, in the summer time our monthly nominations for delivery include both flowing gas to the city using our transportation contracts with a focus on also filing our storage account. In the winter time our monthly nominations for delivery include both flowing gas to the city gate using transportation contracts augmented by projected storage withdrawals. Based on monthly usage, and in attempt to follow our winter storage withdrawal plan, we will augment our first of the month nomination with intra-month purchases.

Suburban has released its Columbia Gas Transmission, Columbia Gulf Transmission and North Coast Pipeline capacity to our asset manager. In return, our asset manager works to maximize the value of our interstate pipeline capacity and in return for managing those assets provides us with a discount to index and an asset management payment for capacity on our transportation contracts. Our asset manager uses our pipeline capacity to serve our customer needs off either Columbia Gas or North Coast.

Suburban Natural Gas Risk Management Plan

Plan Overview

- Summer
 - Baseload first of month gas in the summer months and plan for storage injections nominate to the citygate and swing on storage.
 - Summer billable plan 1/7 ratable injections in the summer months and carry cost until Suburban withdraws in the winter months
 - Buy incremental gas in the daily spot market if needed
- Winter
 - Baseload first of month gas in the winter months and plan for storage withdrawals -- nominate to the citygate and swing on storage
 - Follow winter withdrawal plan and adjust based on usage for each prior month
 - o Buy incremental gas in the daily spot market if needed

Hedging Overview

- Summer
 - Hedge at least 5 15% by the end of the preceding winter
 - o Buy balance at FOM index or intramonth daily
- Winter
 - Inject ratably April to October into storage at summer pricing
 - Roughly 3 40% of winter projected usage
 - Augment storage pricing with forward hedges starting roughly 9-12 months prior to winter start
 - Roughly 10 15% of winter projected usage
 - o Buy balance at FOM index or intramonth gas daily

Gulf		LEASE	D PIPELINI		CIS		
Contract #	Rate Schedule	MDQ Daily	MD Seasi	Q	SCQ Annual	Expiration Date	Market Area
			Summer	Winter			
78852	FTS-1	3183				10/31/2024	
75379	FTS-1	1837	····			3/31/2023	•
71202	FTS-1	625		·····		10/31/2014	······
38410	FTS-1	4056				10/31/2014	
North Coast		LEASE	D PIPELIN	E CONTRA	стѕ		
North Coast	Rate	MDO (λÆ		sco	Expiration	Market
Data	Schedula	Daily	Gase	anal	Annual	Date	Aroa
Date	Schedule	Daily	Summar	Mintor	Allingan	Date	Alea
Nov 1 2008	FTS	3000	Summer	AAULICE!		10/31/2018	67.
Nov. 1, 2008		4500				10/31/2010	0/-
Nov. 1, 2010		4000					
	1	0000				_	<u> </u>
		LEASE	D PIPELIN	E CONTRA	CTS		
Columbia Gas	s Transmissio Rate Schedule	LEASE DR MDQ Dally	D PIPELIN ME		CTS SCQ	Expiration	Market
Columbia Gas	Transmissio Rate Schedule	LEASE Da MDQ Dally	ED PIPELIN ME Seas	E CONTRA	CTS SCQ Annuai	Expiration Date	Market Area
Columbia Gas	Transmissio Rate Schedule	LEASE MDQ Dally	ED PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuai	Expiration Date	Market Area
Columbia Gas Contract # 79265 78185	S Transmission Rate Schedule	LEASE MDQ Dally 3500	D PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024	Market Area 67-
Columbia Gas Contract # 79265 78185 75378	S Transmission Rate Schedule FTS FTS FTS	LEASE MDQ Dally 3500 3100	D PIPELIN ME Seas Summer	E CONTRA DQ onal Winter	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023	Market Area 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315	Transmission Rate Schedule FTS FTS FTS FTS FTS	LEASE MDQ Dally 3500 3100 1790	D PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuzi	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014	Market Area 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188	Transmission Rate Schedule FTS FTS FTS FTS FTS FTS FTS	LEASE MDQ Daily 3500 3100 1790 110 500	D PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014	Market Area 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188	s Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS	LEASE MDQ Daily 3500 3100 1790 110 500	ED PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuzi	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014	Market Area 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101	Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS	LEASE MDQ Dally 3500 3100 1790 110 500	ED PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuzi	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101	Transmission Rate Schedule FTS FTS FTS FTS FTS FTS FTS FTS	LEASE MDQ Dally 3500 3100 1790 110 500	D PIPELIN ME Seas Summer	E CONTRA OQ onal Winter	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679	Transmission Rate Schedule FTS FTS FTS FTS FTS FTS FTS FTS FTS	LEASE MDQ Dally 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer	E CONTRA OQ onal Winter 3800	CTS SCQ Annuzi	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679 81292	Transmission Rate Schedule FTS FTS FTS FTS FTS FTS FTS FTS SST	LEASE MDQ Daily 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558	E CONTRA OQ onal Winter 3800 1116	CTS SCQ Annuzi	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679 81292 80842	Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS SST SST SST	LEASE MDQ Dally 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558 967	E CONTRA OQ onal Winter 3800 1116 1935	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025 3/31/2025	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679 81292 80842 38031	Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS SST SST SST	LEASE MDQ Dally 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558 967 1683	E CONTRA OQ onal Winter 3800 1116 1935 3366	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025 3/31/2025 3/31/2014	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679 81292 80842 38031 81680	Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS FTS SST SST	LEASE MDQ Dally 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558 967 1683	E CONTRA OQ onal Winter 3800 1116 1935 3366 	CTS SCQ Annuai	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025 3/31/2025 3/31/2014 4/1/2025	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73188 38101 81679 81292 80842 38031 81680 81293	Transmissio Rate Schedule FTS FTS FTS FTS FTS FTS FTS SST SST SST	LEASE MDQ Dally 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558 967 1683	E CONTRA OQ onal Winter 3800 1116 1935 3366 3800 1116	CTS SCQ Annuai 216,600 63,612	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025 3/31/2014 4/1/2025 3/31/2025	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-
Columbia Gas Contract # 79265 78185 75378 73315 73315 733188 38101 81679 81292 80842 38031 81680 81293 80843	Transmission Rate Schedule FTS FTS FTS FTS FTS FTS FTS FTS SST SST	LEASE MDQ Daily 3500 3100 1790 110 500 5134	ED PIPELIN ME Seas Summer 1900 558 967 1683	E CONTRA DQ onal Winter 3800 1116 1935 3366 3800 1116 1935	CTS SCQ Annuai 216,600 63,612 102,157	Expiration Date 12/31/2024 3/31/2024 10/31/2023 10/31/2014 10/31/2014 10/31/2014 4/1/2025 3/31/2025 3/31/2025 3/31/2025 3/31/2025 3/31/2025	Market Area 67- 67- 67- 67- 67- 67- 67- 67- 67- 67-

.

4

•

	s of Ohio - L	azelle			•		
Contract #	Rate Schedule	MDQ Daily	Mi Seas	DQ ional	SCQ Annual	Expiration Date	
	+		Summer	Winter	:		
Agreement		3000			18,000	As long as	
for the		0000			.0,000	Suburban	
Purchase &	<u>_</u>		<u></u>			meets its	
Solo of		· •				obligation	
						Unigation to COU	
Natural Gas	·						
Columbia Gas of	Ohio - BigW	NATUR /alnut	AL GAS C	ONTRACTS	S	, , , , , , , , , , , , , , , , , , ,	
	Rate	MDQ	M	DQ	SCQ	Expiration	
Contract #	Schedule	Daily	Seas	ional	Annual	Date	
			Summer	Winter			
Line Extension & F	Revenue Gua	rantee Aur	eement for	Sale of Nati	ural Gas		
2009		2400			163,800	10/1/2013	_
2010		2400			194 400		
2010		2400			226 800		•••
2011		2400		,	220,000		_
2012		2400			262,200	1 1	
2012 & Beyond		2400			262,200		÷
2012 & Beyond		2400 2400			262,200		
2012 & Beyond BA Agency	ASED CONTR	2400 2400	SALE & P	URCHASE	262,200 OF NATUR Start Date	AL GAS Expiration Date	
2012 & Beyond BA Agency	ASED CONTR	2400 2400	SALE & P	URCHASE	262,200 OF NATUR Start Date	AL GAS Expiration Date	
2012 & Beyond BA Agency Atmos Energy	ASED CONT	2400 2400	SALE & P	URCHASE	262,200 OF NATUR Start Date 4/1/2007	AL GAS Expiration Date 3/1/2009	• • • •
2012 & Beyond BA Agency Atmos Energy Atmos	ASED CONT	2400 2400 RACT FOR	SALE & P	URCHASE	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension	ASED CONTR	2400 2400 RACT FOR	SALE & P	URCHASE	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension	ASED CONTR	2400 2400 RACT FOR	SALE & P	URCHASE	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension		2400 2400 RACT FOR	SALE & P	URCHASE	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension	ASED CONTR	2400 2400 RACT FOR	SALE & P	DAY	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension	ASED CONT	2400 2400 RACT FOR	SALE & P	DAY	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension System	ASED CONTR	2400 2400 RACT FOR	SALE & P	URCHASE DAY Mcf 20,432	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	
2012 & Beyond BA Agency Atmos Energy Atmos Energy Extension System Northern	ASED CONTR	2400 2400 RACT FOR 1/16/2009 1/15/2009	SALE & P	URCHASE DAY Mcf 20,432 6,209	262,200 OF NATUR Start Date 4/1/2007 11/1/2008	AL GAS Expiration Date 3/1/2009 3/31/2012	

.

4

ł

i. L . .

- (A) Definitions. Unless otherwise specified, all terms used in Chapter 4901:5-7 of the Administrative Code are the same as those found in the fourth edition "Glossary For The Gas Industry" published by the planning and analysis group of the "American Gas Association." The following definitions apply to this chapter:
 - "Energy-price relationships" means the calculated or observed effects on gas demand resulting from changes in the customer price of gas or other fuels. It consists of both energy conservation effects which reduce customer energy use directly and effects which cause customers to switch to or from utility-provided gas.
 - (2) "Forecast year," "year of the forecast," or "year zero" means the year in which the forecast is filed.
 - (3) "Energy conservation" means the effect upon gas demand resulting from customer adoption and use of measures, standards, equipment, or techniques designed, at least in part, to decrease gas consumption or to increase efficiency of gas use. Energy conservation may include the result of increases in price, but does not include price-induced fuel switching.
 - (4) "Self-help gas and other transported gas" means natural or synthetic gas owned by or acquired on behalf of an end-user or owned by another person which was developed independently or acquired from a third party, but which requires the use of one or more company or utility to transport the gas to the end-user.
 - (5) "Forecast period" means year zero through year ten.
 - (6) "Reporting period" means year minus five through year ten.
 - (7) "Service area" means the geographic area within Ohio in which the company renders service to wholesale and retail consumers of gas.
 - (8) "Fuel switching" means the substitution of one energy source for another in a particular end use or process, as a result of changing relative prices or technologies.

(B) General guidelines. The following guidelines shall be used in the preparation of the demand forecast:

- (1) The demand forecast must be based upon independent analysis by the reporting utility.
- (2) The demand forecast may be based on those forecasting methods which yield the most useful results to the utility.
- (3) Persons filing forecast reports under this rule may use common methodologies and participate in joint hearings.
- (4) Where the required data have not been calculated directly, relevant conversion factors shall be displayed.
- (5) All gas volumes shall be reported at 14.73 psia.

Suburban Natural Gas independently prepares its gas demand forecast using actual usage data that has been adjusted to normal weather conditions.

Estimated data includes 2010 to the year 2020. The data contains projected normal monthly and peak day requirements for all classes of customers in the company's service area.

- (C) Special subject areas.
 - (1) The following matters shall specifically be addressed:
 - (a) A description of the extent to which the reporting utility coordinates its load forecasts with those of other systems such as affiliated systems in a holding company group; or other neighboring systems and, if the reporting utility is a combination utility, a description of the coordination of its gas load forecast with its electric load forecast.

Suburban Natural Gas does not coordinate its load requirements with any other systems.

(b) A description of the manner in which such forecasts are coordinated, and any problems experienced in efforts to coordinate load forecasts.

See above.

(c) A brief description of any computer modeling, demand forecasting, polls, surveys, or data-gathering activities used in preparation of the forecast.

Suburban Natural Gas uses degree day modeling and historical data to prepare load forecasts.

- (2) Energy conservation:
 - (a) A description of, and justification for, the methodologies employed for determining energy conservation shall be included.

No methodologies used to determine energy conservation.

(b) Programs and policies of the reporting utility which support energy conservation shall be described.

Suburban Natural Gas promotes energy conservation such as higher efficiency furnaces, better insulation and other energy saving methods found on the PUCO's website and the Department of Energy's website.

(c) To the extent possible, identify changes during the forecast period due to energy conservation for:

- (i) Annual usage by major customer class.
- (ii) System winter season usage.
- (iii) System peak day usage.

No changes identified

(d) To the extent possible, identify changes during the forecast period in energy demand due to market penetration of equipment or techniques designed to produce energy conservation.

No changes identified

- (3) Energy-price relationships:
 - (a) To the extent possible, identify changes during the forecast period in energy demand by major customer class and system peak due to customer energy prices. Identify and describe how such changes are accounted for in the forecast.

No changes identified

(b) Describe the methodologies for determining such energy-price relationships, including justification for the methodologies employed.

No methodologies implemented.

- (4) Fuel switching:
 - (a) To the extent possible, identify changes during the reporting period in gas demand by major customer class due to fuel switching. Include where practicable the specific type of application for which fuel switching is expected and associated volumes in each customer class expected to switch and how such changes are accounted for in the forecast.
 - No fuel switching anticipated
 - (b) Describe the methodologies for determining such fuel switching, including justification for the methodologies employed.

No methodologies implemented

- (5) Self-help and other transported gas:
 - (a) To the extent possible, identify changes during the reporting period in gas demand by major customer class due to customer obtained self-help gas or other transported gas. Include a description of the company's policy toward the transportation of selfhelp gas.
 - No significant changes
 - (b) Describe the methodologies for determining the volumes described above; including the justification for the methodologies employed.

Suburban Natural Gas only has one commercial account that utilizes transportation.

(c) Discuss the effect on gas demand of current state and federal policies toward the transportation of natural gas.

No effect observed

(6) Textual material not specifically required but of importance to the demand forecast of the reporting utility may be included in an appropriate section.

- (D) Forecast documentation. The purpose of the documentation section of the report is to permit a thorough review of the forecast methodology and test its validity. The documentation when combined with the data provided under paragraph (D)(3)(b) of this rule should be thorough enough to permit replication of the forecast results by the commission or other parties who have prima facie expertise in forecasting. The components of the forecast documentation shall include:
 - (1) Forecast methodology. The reporting utility shall specify in detail for both the load and peak forecast the methodology employed, including:
 - (a) Overall methodological framework chosen.

Suburban Natural Gas uses a usage model based on heating degree days, historical usage, and informed judgement

(b) Specific analytical techniques used, their purpose, and the forecast component to which they are applied.

The usage model predicts annual usage for each class of customer. The model is used to primarily determine the load requirements for heating related purposes.

(c) The manner in which specific techniques are related in producing the forecast.

Customer usage is forecast based on non-heating and heating load.

- (d) Where statistical techniques have been used:
 - (i) All relevant equations.
 - (ii) The results of appropriate statistical tests.
 - (iii) A description of the technique.
 - (iv) The reason for choosing the technique.
 - (v) Identification of significant computer software used.

Suburban Natural Gas uses heating degree day information and historical usage to determine the load requirements on an annual basis and on a monthly basis. The calculation is made for residential, commercial and industrial accounts.

(e) An explanation of how interruptibles, curtailables and other non-firm requirements are forecast, how they are treated in the total forecast, and an identification of demand volumes subject to interruption or curtailment and other non-firm demand.

No interruptibles forecast

(f) A brief description of any alternative methodologies attempted and a discussion of the results.

No alternative methodologies used

(g) An identification of customer usage factors and a description of how they are used within the forecast.

(h) Where the methodology for any major customer class has changed significantly from the previous year, a discussion of the rationale for the change.

No significant change

- (i) Where surveys are used, a display of:
 - (i) Assumptions provided to those surveyed, if any (e.g., gas price forecasts,
 - price forecasts of alternate fuels).
 - (ii) Copies of any forms used in the survey.
 - (iii) Survey technique used.

No surveys used

- (2) Assumptions and special information. The reporting utility shall:
 - (a) For each significant assumption made in preparing the forecasts include a discussion of the basis for the assumption and the impact it has on the forecast results. Give sources of the assumption if other than the reporting utility.

No significant assumptions were made in preparing this forecast

(b) Specifically address each of the following:

(i) Current and future relative prices and availability of conventional fuels by major customer class for the forecast period and its effect on the forecast.

Not addressed

(ii) Current and future relative prices and availability of alternative energy sources and technologies (including but not limited to solar, wind, waste, and wood) for the forecast period and its effect on the forecast.

Not addressed

(iii) Pricing policy, including:

- (a) Alternative rate structures.
- (b) Predicted consumption effects for each customer class.
- (c) Predicted natural gas price behavior.

Not addressed

(iv) Economic and demographic trends within the utility's service area.

Not addressed

(v) Assumed inflation rate.

Not addressed

(vi) Anticipated penetration of cogeneration technology in each customer class and its likely effect on demand for natural gas.

Not addressed

(vii) Residential customers, including:

(a) Number of year-end residential customers disaggregated by heat and non-heat for the past five years, the current year and the number anticipated for the next ten years.

	2005	2006	2007	2008	2009	2010	2011	2012
Residential	13182	13958	14328	14605	14830	15000	15200	15400
Commercial	943	940	969	997	1006	1075	1100	1125
Industrial	16	15	15	15	15	15	15	15
	2013	2014	2015	2016	2017	2018	2019	2020
Residential	15600	15800	16000	16200	16400	16600	16800	17000
Commercial	1150	1175	1200	1225	1250	1275	1300	1325
Industrial	15	15	15	15	15	15	15	15

(b) Specific data and sources of population and household data upon which customer projections are based.

Based on historical data from each customer class.

(c) Where official state population projections are not used, an explanation of why alternative population projections are employed.

Based on historical growth patterns in service area.

(viii) A listing of all customer groups included in the "other" category on form FG1-1.

None

(ix) Other assumptions critical to forecast techniques or company operating procedures.

No other assumptions

(x) To the extent possible, the impact of changes in appliance saturation on total residential demand and on usage per residential customer.

Not addressed

(xi) For years minus five through minus one the reporting utility shall provide weather-adjusted (normalized) sales volumes, by major customer class and total sales, with a brief description of how the adjustments were obtained.

	2005	2006	2007	2008	2009
Residential	1217	1135	1255	1304	1265
Commercial	433	40 1	455	465	515
Industrial	29	24	32	31	31

The major customer classes listed below were normalized by adjusting actual consumption to normal degree days.

(c) Identify special information bearing on the forecast (e.g., the existence of a major planned industrial expansion program in the area of service).

No special information bearing on the forecast

- (3) Data base documentation. The responsibilities of the reporting utility with regard to its forecast data base are as follows.
 - (a) The reporting utility shall provide:

(i) A brief description of all data sets used in making the forecast, both internal and external, input and output, and a citation to the sources.

Actual historical billing data used PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

(ii) The reasons for the selection of the specific data base used.

Readily available

(iii) A clear identification of any adjustments made to raw data in order to adapt them for use in the forecast, including for each adjustment, to the extent practicable:

- (a) The nature of the adjustment made.
- (b) The basis for the adjustment made.
- (c) The magnitude of the adjustment.

No adjustments made.

(b) The reporting utility shall be prepared to provide to the commission, on request:
(i) Copies of all data sets used in making the forecasts, including both raw and adjusted data, input and output data, and complete descriptions of any mathematical, technical, statistical, or other model used in preparing the data.
(ii) A narrative explaining the data sets, and any adjustments made with the data to adapt it for use in the forecast.

Form FG1-1 HISTORICAL AND FORECAST SERVICE AREA ANNUAL GAS DEMAND (Part 1) Units: MMCF/YEAR

:

-	-	_		_	-			-	1		-1		T						_		l
10	ى	œ	7	თ	сл	4	ω	N	_	0	<u>۲</u>	'n	ώ	4	ά						
2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR					
1569	1547	1525	1503	1481	1459	1437	1415	1393	1370	1348	1265	1304	1255	1135	1217	SALE	RESIDENTAIL			<u>د.</u>	
602	591	580	569	557	546	535	523	512	500	489	515	465	455	401	433	SALES	COMMERCIAL			2	
31	31	31	31	31	31	31	31	31	31	31	31	31	32	24	29	SALES	INDUSTRIAL			ىي س	
0	o	0	0	0	0	0	0	o	0	0	0	0	D	0	0	UTILITIES	ELECTRIC	SALES TO		4	
2202	2169	2136	2103	2069	2036	2003	1969	1936	1901	1868	1811	1800	1742	1560	1679	CUSTOMERS	ULTIMATE	SALES TO		U	,
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NATURAL GAS	AND SMALL	MUNICIPALS	RESALE TO	SALES FOR	3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FOR RESALE	OTHER SALES				
2202	2169	2136	2103	2069	2036	2003	1969	1936	1901	1868	1811	1800	1742	1560	1679	TOTAL SALES				۵	0

,

.

Form FG1-1 HISTORICAL AND FORECAST SERVICE AREA ANNUAL GAS DEMAND (Part 2) Units: MMCF/YEAR

10	9	8	7	9	5	4	З	2	-1	0		-2	د -	-4	փ					
2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR				
2202	2169	2136	2103	2069	2036	2003	1969	1936	1901	1868	1811	1800	1742	1560	1679	TOTAL SALES				8
2	2	2	2	2	2	2	2	2	2	2	-	1	1	1	1	USE	COMPANY			6
2204	2171	2138	2105	2071	2038	2005	1971	1938	1903	1870	1812	1801	1743	1561	1680	CONSUMPTION	TOTAL			10
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TO STORAGE	INJECTIONS	NET		11
0	0	0	0	0	0	0	0	0	0	0	18	26	37	42	31	UFG	LOSSES AND			12
2204	2171	2138	2105	2071	2038	2005	1971	1938	1903	1870	1830	1827	1780	1603	1711	DEMAND	TOTAL			13
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	INTERRUPTBLE	SUM OF			14
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TO STORAGE	INJECTIONS	TOTAL		15
0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	STORAGE	OL	INJECTIONS	TOTAL	16

Form FG1-3 MONTHLY GAS SENDOUT Units: MMCF/YEAR

	YEAR 0	YEAR 1	YEAR 2
JANUARY	348	354	360
FEBRUARY	290	295	300
MARCH	231	235	239
	141	144	146
	<u>61</u>	60	62
1912-1	01	02	00
JUNE	38	39	40
			······································
JULY	38	39	40
AUGUST	38	39	40
SEPTEMBER	43	44	45
OCTOBER	124	126	128
NOVEMBED		010	200
NOVEMBER	212	210	220
DECEMBER	304	300	314
DECEMBER	304	309	314

Form FG1-4 RANGE OF DEMAND FORECAST Units: MMCF/YEAR

6	9	8	7	6	ن	4	ω	2	<u>></u>	2	· •	
2020	2019	2017	2017	2016	2015	2014	2013	2012	2011	2010	YEAR	
1412	1392	1373	1353	1333	1313	1293	1274	1254	1233	1213	LOWEST	RESIC
1569	1547	1525	1503	1481	1459	1437	1415	1393	1370	1348	Most Likely	DENTIAL S
1726	1702	1678	1653	1629	1605	1581	1557	1532	1507	1483	HIGHEST	ALES
542	532	522	512	501	491	482	471	461	450	440	LOWEST	COMN
602	591	580	569	557	546	535	523	512	500	489	MOST	IERCIAL S.
662	650	638	626	613	601	589	575	563	550	538	HIGHEST	ALES
28	28	28	28	28	28	28	28	28	28	28	LOWEST	INDU
31	31	31	31	31	31	31	31	31	31	31	MOST	STRIAL SA
34	34	34	34	34	34	34	34	34	34	34	HIGHEST	LES
1982	1952	1922	1893	1862	1832	1803	1772	1742	1711	1681	LOWEST	ТС
2202	2169	2136	2103	2069	2036	2003	1969	1936	1901	1868	MOST	JTAL SALE
2422	2386	2350	2313	2276	2240	2203	2166	2130	2091	2055	HIGHEST	ö

Form FG1-5 HISTORICAL PEAK AND FORECAST DESIGN DAY DAY REQUIREMENTS Units: MMCF/YEAR

5	9	Ø	7	0	ъ	4	З	2	_	0	÷	Ż	μ	4	ப்						
2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR					
21.7	21.1	21.1	21.1	20.4	20,4	20.4	19.7	19.7	18.9	18.9	18.9	12.7	13.3	10.8	11.7	SALE	RESIDENTAIL				
7.6	7.4	7,4	7.4	7.2	7,2	7.2	6.9	6.9	6.7	6.7	6.7	4.5	4.7	3.8	4.1	SALES	COMMERCIAL	-			2
0.4	0.4	0.4	0,4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	SALES	INDUSTRIAL				3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	UTILITIES	ELECTRIC	SALES TO			4
29.7	29.0	29.0	29.0	28.0	28.0	28.0	27.0	27.0	26.0	26.0	26.0	17.5	18.3	14.9	16.1	CUSTOMERS	ULTIMATE	SALES TO			01
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NATURAL GAS	AND SMALL	MUNICIPALS	RESALE TO	SALES FOR	σ
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	FOR RESALE	OTHER SALES				7
29.7	29.0	29.0	29.0	28.0	28.0	28.0	27.0	27.0	26.0	26.0	26.0	17.5	18.3	14.9	16.1	SALES	TOTAL		<u>-</u> , -		8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	FOR GAS	UNACCT		•••		6
29.7	29.0	29.0	29.0	28.0	28.0	28.0	27.0	27.0	26.0	26.0	26.0	17.5	18.3	14.9	16.1	TOTAL					10

Design Day based on 20 below zero F

-

Form FG1-6 SUPPLY AND DISPOSITION OF SELF-HELP AND OTHER TRANSPORTED VOLUMES Units: MMCF/YEAR

10	ဖ	ω	7	G	თ	4	ω	N	-	0	-	ż	ራ	-4	ե								
2012	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR							
0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	CUSTOMERS	FOR ON-LINE	RESPONDENT	SOLEY BY	GAS	OHIO PRODUCED		4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CUSTOMERS	FOR ON-SYSTEM	RESPONDENT	COMBANY TO	TRANSPORTED	GAS	OHIO PRODUCED	2
55	55	55	55	55	55	55	55	55	55	55	72	54	46	53	53	CUSTOMERS	FOR ON-SYSTEM	BY RESPONDENT	OTHER VOLLIMES	· · ·			3
55	55	55	55	55	55	55	55	55	55	55	72	54	46	53	53	CUSTOMERS	FOR ON-SYSTEM	BY RESPONDENT	TOTAL VOLUMES				4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	RESPONDENT	OFF-SYSTEM BY	TRANSPORTED	GAS				ъ
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CUSTOMERS	FOR OFF-SYSTEM	BY RESPONDENT					6
0	0	D	0	0	0	0	0	0	0	0	0	0	0	0	0	CUSTOMERS	FOR OFF-SYSTEM	BY RESPONDENT	TOTAL VOLUMES				7
55	55	55	55	55	55	55	55	55	ភភ	55	72	54	46	53	53	TRANSPORTED	TOTAL VOLUMES						8

(A) General guidelines. The supply estimates used in these forecasts must be based upon the reporting utility's independent analysis of alternative sources of gas as well as its current sources. When data is based on material received from current or prospective suppliers, the reporting utility must show that it has made an independent review of such data and arrived at its own analysis of the probable future availability and price of gas from the source in question.

The supply estimates used in this forecast are based upon Suburban Natural gas Company's independent analysis of alternative sources of gas as well as the current sources.

The information shown on the forms may not be consistent with other reports on file with the Public Utilities Commission of Ohio (PUCO). Any differences between data previously filed and that shown should be attributed to timing of the forecast.

- (B) Special subject areas.
 - (1) The forecast shall contain a copy of the most recent annual report to shareholders of the reporting utility and of any parent company of the reporting utility. A photocopy is acceptable.
 - (2) One completed copy of securities exchange commission form 10K, "Annual Report to the Securities Exchange Commission," shall be filed at the time it is available as part of the reporting utility's annual forecast filing. If the reporting utility does not file such a form and a comparable form is prepared by the parent company, then the parent company's form shall be filed at the time it is available as part of the annual forecast filing.
 - (3) Compatibility with other filings. If there are differences between data in the forecast report and similar actual or forecast data in other forms filed with the commission (e.g., federal energy regulatory commission form 2), the reporting utility shall note and explain any discrepancies.
 - (4) The forecast shall contain a description of the reporting utility's policies and activities involving the procurement of Ohio gas, the impact of such procurement upon the reliability of the reporting utility's gas supply, and the compatibility of such policies and activities with a least-cost procurement plan.

Suburban Natural Gas utilizes Atmos Energy Marketing as our asset manager. Atmos has proven to be a cost effective reliable source.

- (C) Gas and natural gas supply forecast discussion. A narrative shall be prepared which includes a general description of the methods and procedures used to develop the reporting utility's forecast of:
 - (1) Gas supply, by source.

Gas is procured from Atmos Energy

(2) Gas supply prices, by source.

Suburban Natural Gas Risk Management Plan

Plan Overview

- Summer
 - Baseload first of month gas in the summer months and plan for storage injections nominate to the citygate and swing on storage.
 - Summer billable plan 1/7 ratable injections in the summer months and carry cost until Suburban withdraws in the winter months
 - o Buy incremental gas in the daily spot market if needed
- Winter
 - Baseload first of month gas in the winter months and plan for storage withdrawals nominate to the citygate and swing on storage
 - Follow winter withdrawal plan and adjust based on usage for each prior month
 - o Buy incremental gas in the daily spot market if needed

Hedging Overview

- Summer
 - o Hedge at least 5% 15% by the end of the preceding winter
 - Buy balance at FOM index or intramonth daily
- Winter
 - Inject ratably April to October into storage at summer pricing
 - Roughly 35-40% of winter projected usage
 - Augment storage pricing with forward hedges starting roughly 9-12 months prior to winter start
 - Roughly 10-15% of winter projected usage
 - o Buy balance at FOM index or intramonth gas daily
 - (3) Natural gas storage facilities.

Per TCO contract

(D) Projected sources of gas. A narrative shall be prepared which includes the following.

- (1) A description of the project sources of gas for the forecast period. This description shall include the following:
 - (a) A list of the projected sources of gas for the forecast period.

Atmos Energy

(b) A description of the role of company-owned gas in the future supply mix.

N/A

(c) A description of the anticipated use of storage facilities in the future supply mix.

Per TCO contract

(d) The anticipated use of firm and interruptible transportation to obtain gas for system supply and the effect of state and federal policies toward the transportation of natural gas on the reporting utility's supply mix.

Gas demand will be met through use of firm transportation, storage and market purchases through Atmos Energy.

(2) A description of those factors which may have an impact on the reporting utility's projected natural gas supplies and its future construction of additional facilities, including, but not limited to, interconnections with alternate supplies.

Suburban Natural Gas does not anticipate any significant impact on the reliability of its natural gas supply.

(E) Reliability of gas sources. A narrative shall be prepared which includes the following:

(1) The reporting utility's working definition(s) of gas supply reliability.

Supply reliability is access to pipelines, storage, producers, and marketers who can provide long-term firm supply.

(2) A description of the methods used by the reporting utility to quantitatively or qualitatively measure gas supply reliability.

Historical experience

(3) The reliability of gas sources over the past five years and the anticipated reliability of each of the reporting utility's gas sources over the forecast period.

Suburban Natural Gas has not experienced any difficulties in gas reliability over the past five years

(F) Analysis of system peak and winter season planning. The reporting utility shall provide an analysis of its ability to meet peak requirements under design weather conditions throughout the forecast period and shall also provide a description of supply projections for meeting winter season requirements.

Suburban Natural Gas contracts from sources that are considered to be most reliable for base load gas demand. Suburban utilizes its storage contract with TCO to meet seasonal requirements.

Form FG2-1 ANNUAL GAS SUPPLY Units: MMCF/YEAR

<u> </u>						_		_					_				
10	9	8	7	6	თ	4	ധ	2	4	0	-	-2	ሬ	4	եր		
2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LONG-TERM INTERSTATE SUPPLY	<u>د</u>
0	0	0	0	0,	0	0	0	0	0	0	0	0	0	0	0	SPOT MARKET INTERSTATE SUPPLY	2
2173	2171	2138	2105	2071	2038	2005	1971	1938	1902	1870	1836	1827	1780	1603	1711	ALL OTHER INTERSTATE SUPPLY	دى
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OHIO	4
0	0	0	0	0	0	0	0	ø	0	0	0	0	0	0	σ	PROPANE	с л
0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	SNG	ŋ
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LNG	7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OTHER	00
2173	2171	2138	2105	2071	2038	2005	1971	1938	1902	1870	1836	1827	1780	1603	1711	TOTAL	G
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NET WITHDRAWALS FROM STORAGE	10
2173	2171	2138	2105	2071	2038	2005	1971	1938	1902	1870	1836	1827	1780	1603	1711	TOTALS SUPPLIES	1

Form FG2-2 ANNUAL SUPPLY PRICES Units: \$/MCF

<u> </u>	_					_		_				_					
10	9	8	7	6	თ	4	ω	2	-	0	占	ż	-3	4	ი		
2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	YEAR	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LONG-TERM INTERSTATE SUPPLY	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SPOT MARKET INTERSTATE SUPPLY	2
10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.84	10.15	8.11	7.94	8.63	ALL OTHER INTERSTATE SUPPLY	చు
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OHIO	4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PROPANE	ۍ ان
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SNG	თ
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LNG	7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OTHER	00
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TOTAL	9
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	WITHDRAWALS	10
10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.84	10.15	8.11	7.94	8.63	TOTALS SUPPLIES WACOG	ب ب

-

Form FG2-3 HISTORICAL PEAK DAY AND FORECAST DESIGN DAY SUPPLY Units: MMCF/DAY

VEAR SPOT INTERSTATE ALL OTHER INTERSTATE OHIO INTERSTATE SPOT INTERSTATE ALL OTHER INTERSTATE OHIO INTERSTATE NET INTERSTATE N
YEAR SPOT INTERSTATE ALL OTHER INTERSTATE OHO INTERSTATE OHO INTERSTATE NITERSTATE INTERSTATE OHO ILS SNO INTERSTATE NITERSTATE INTERSTATE OHO ILS INTERSTATE INTERSTATE OHO ILS INTERSTATE INTERSTATE OHO ILS INTERSTATE INTERSTATE OHO ILS INTERSTATE I
SPOT INFERSIVE SUPPLY SNOT INTERSIVE SUPPLY ALL OTHER INTERSIVE SUPPLY ALL OTHER INTERSIVE SUPPLY ALL OTHER INTERSIVE SUPPLY ALL OTHER INTERSIVE SUPPLY ALL OTHER INTERSIVE SUPPLY NUT INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLY NMET INTERSIVE SUPPLY TOTAL INTERSIVE SUPPLIES NMET INTERSIVE SUPPLIES TOTAL INTERSIVE SUPPLIES NMET INTERSIVE SUPPLIES TOTAL INTERSIVE SUPPLIES INTERSIVE SUPPLIES 0 0 11.5 0 0 0 0 11.5 4.6 14.6 0 0 14.6 0 0 0 0 12.7 6.1 18.8 10.2 26.0 0 0 15.8 0 0 0 0 16.8 10.2 27.0 0 0 17.8 0 0 0 0 17.8 10.2 28.0 0 0
2 3 4 5 6 7 8 7 8 7 10 11 SPOT INTERSTATE SUPPLY ALL OTHER SUPPLY ALL OTHER SUPPLY ALL OTHER SUPPLY NTERSTATE SUPPLY OHIO SUPPLY NG TAL NET TOTAL NET TOTAL NET TOTAL NET TOTAL NET TOTAL NET SUPPLY 0 11.5 0 0 0 0 0 11.5 4.6 13.1 0 12.7 0 0 0 0 0 11.5 4.6 14.8 0 12.7 0 0 0 0 11.5 4.6 14.8 0 12.7 0 0 0 0 12.7 6.1 18.8 10.2 26.0 0 15.8 0 0 0 0 16.8 10.2 27.0 28.0 0 17.8 0 0 0 0 17.8 10.2 28.0 28.0 28.0 28.0
3 4 5 6 7 6 9 10 11 AL OTHER INTERSTATE OHIO SUPPLY PRODUCTION PROPANE SNG LNG OTHER REQUIREMENTS ITOTAL WITHDRAWALS TOTAL 11.5 0 0 0 0 0 0 11.5 4.6 16.1 12.7 0 0 0 0 0 0 11.5 4.6 16.1 12.7 0 0 0 0 0 11.5 4.6 16.1 12.7 0 0 0 0 0 11.4 3.4 14.8 12.7 0 0 0 0 0 14.6 5.8 20.4 15.8 0 0 0 0 0 14.6 5.8 10.2 26.0 17.8 0 0 0 0 14.8 10.2 28.0 17.8 0 0 0
4 5 6 7 8 9 10 11 OHO 0 PROPANE SNG LNG OTHER REQUIREMENTS FROM STORAGE SUPPLIES 0 0 0 0 0 0 0 11.4 3.4 14.8 0 0 0 0 0 0 11.4 3.4 14.8 0 0 0 0 0 0 7.2 10.3 17.5 0 0 0 0 0 0 14.6 5.8 10.2 26.0 0 0 0 0 0 0 14.6 5.8 10.2 26.0 0 0 0 0 0 0 15.8 10.2 26.0 0 0 0 0 0 14.6 5.8 10.2 27.0 0 0 0 0 0 17.8 10.2 28.0 27.0
5 6 7 8 9 10 11 PROPANE SNG LNG OTHER RECUIREMENTS FROM STOPAGE SUPPLIES 0 0 0 0 0 11.5 4.6 16.1 0 0 0 0 11.4 3.4 14.8 0 0 0 0 11.4 3.4 14.8 0 0 0 0 11.4 3.4 14.8 0 0 0 0 11.4 3.4 14.8 0 0 0 0 14.6 5.8 20.4 0 0 0 0 14.8 10.2 26.0 0 0 0 0 17.8 10.2 26.0 0 0 0 0 17.8 10.2 28.0 0 0 0 17.8 10.2 28.0 0 0 0 18.8
b / B Y I SNG LNG OTHER REQUIREMENTS FROM STORAGE SUPPLIES 0 0 0 0 11.5 4.6 16.1 0 0 0 11.4 3.4 14.8 16.1 0 0 0 7.2 10.3 17.5 16.1 0 0 0 14.8 5.8 20.4 14.8 0 0 0 14.8 10.2 25.0 26.0 0 0 0 14.8 10.2 26.0 27.0 0 0 0 17.8 10.2 28.0 27.0 0 0 0 17.8 10.2 28.0
/ B Y IU II LNG OTHER REQUIREMENTS FROM STORAGE SUPPLIES 0 0 11.5 4.6 16.1 0 0 11.5 4.6 16.1 0 0 11.4 3.4 14.8 0 0 12.7 6.1 18.8 0 0 15.8 10.2 26.0 0 0 16.8 10.2 27.0 0 0 17.8 10.2 26.0 0 0 17.8 10.2 28.0 0 0 17.8 10.2 28.0 0 0 17.8 10.2 28.0 0 0 18.8 10.2 28.0 0 0 18.8 10.2 29.0 0 0 18.8 10.2 29.0 0 0 18.8 10.2 29.0 0 0 18
B Y IU II OTHER REQUIREMENTS FROM STORAGE SUPPLIES 0 11.5 4.6 16.1 0 11.4 3.4 14.8 0 12.7 6.1 18.8 0 15.8 10.2 26.0 0 15.8 10.2 26.0 0 17.8 10.2 27.0 0 17.8 10.2 28.0 0 17.8 10.2 28.0 0 17.8 10.2 28.0 0 17.8 10.2 28.0 0 17.8 10.2 28.0 0 17.8 10.2 28.0 0 18.8 10.2 29.0 0 18.8 10.2 29.0 0 18.8 10.2 29.0 0 18.8 10.2 29.0 0 18.8 10.2 29.0 0 18.8
9 10 11 TOTAL TOTAL 11.5 WITHDRAWALS FROM STORAGE 11.4 TOTALS TOTALS SUPPLIES 16.1 11.4 3.4 16.1 12.7 6.1 18.8 12.7 6.1 18.8 12.7 6.1 18.8 15.8 10.2 26.0 15.8 10.2 26.0 16.8 10.2 27.0 17.8 10.2 28.0 17.8 10.2 28.0 18.8 10.2 28.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0 18.8 10.2 29.0
NET TOTALS 4.6 16.1 3.4 14.8 6.1 18.8 10.2 26.0 10.2 27.0 10.2 28.0 10.2 28.0 10.2 28.0 10.2 28.0 10.2 28.0 10.2 28.0 10.2 28.0 10.2 29.0 10.2 29.0 10.2 29.0 10.2 29.0 10.2 29.0 10.2 29.0
TOTALS SUPPLIES 16.1 14.8 17.5 28.0 28.0 28.0 28.0 29.0 29.0 29.0

Projected Peak/Design is based on -20 degrees F

.

SUBURBAN NATURAL GAS COMPANY

FORM FG-2-4 EXISTING AND PROPOSED STORAGE FACILITIES

Storage Gas is provided through TCO Contract

RESERVOIR NAME	LOCATION	CUSHION BASE GAS	CAPACITY WORKING GAS	TOTAL	COMPLETION DATE
Leased Storage					
Contract #			SCQ Annual Dth		Expiration Date
81680			216,600		4/1/2025
81293			63,612		3/31/2025
80843			102,157		3/31/2025
53001			168,285		3/31/2014

FORM FG-2-5 EXISTING AND PROPOSED PROPANE FACILITIES (GALLONS)

FACILITY NAME	LOCATION	CAPACITY	COMPLETION DATE
NONE	1	•	
			[
			i i
Į			
	(
	ł		

FORM FG-2-6 OTHER PEAKING FACILITIES

FACILITY NAME	LOCATION	CAPACITY	COMPLETION DATE
NONE			
		2	
		·	
			Į
	1		
			l l

(H) The reporting utility shall independently develop a long-term strategic supply plan for the purpose of assisting it in operating within a changing natural gas industry environment. The long-term strategic supply plan shall be structured in a manner which provides the most useful results to the utility.

Suburban Natural Gas utilizes its transportation and storage contracts to assure appropriate delivery of gas to meet customer demands.

To meet anticipated growth requirements, Suburban will secure new transportation, storage and access to new interconnects as necessary.

	100%		99.73%	100.56%	94.27%	88.89%	101.97%
	5221	100%	5207	5250	4922	4641	5324
Dec	<u>983</u>	19%	<u>1010</u>	<u>978</u>	<u>899</u>	<u>766</u>	<u>1092</u>
Nov	643	12%	507	694	607	567	580
Oct	318	6%	404	321	171	399	324
Sep	20	0%	33	3	25	80	15
Aug	0	0%	11	0	0	0	0
Jul	0	0%	0	0	0	0	0
Jun	0	0%	9	1	2	20	1
May	87	2%	106	168	72	180	215
Apr	382	7%	369	289	431	248	323
Mar	712	14%	584	789	548	758	857
Feb	930	18%	869	982	1221	875	861
Jan	1146	22%	1305	1025	946	748	1056
Month	HDD <u>Normal</u>	<u>%</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>
C	Central Ohio						

Source: National Weather Service Preliminary Monthly Climate Data (CF6) http://www.weather.gov/climate/index.php?wfo=iln

Heating Degree Days

	en de la composition la composition de la composition la composition de la composition de la composition de la composition de la comp		Kourten ED					
	CENSUS	CENSUS		Realized and	aroueoneo).	2;(e)):(e);[==);	22(0)) 2(0) (2)	្លាស់(ស)(ដុខសូ(ដាន)
COUNTY	7990	2000	2005	2010	2015	2020-	2026	2030
ΟΗΙΟ	10,847,120	11,353,140	11,501,180	11,666,850	11,816,170	12,005,730	12,164,200	12,317,610
Adams	25,370	27,330	28,260	29,410	30,280	31,490	32,340	33,510
Allen	109,760	1 08,470	108,080	106,990	106,700	105,870	105,660	104,720
Ashland	47,510	52,520	54,300	56,160	57,540	59,010	60,010	61,050
Ashtabula	99,820	102,730	103,920	104,970	105,370	106,090	106,200	106,420
Athens	59,550	62,220	63,970	64,530	67,210	66,000	66,580	66,340
Auglaize	44,590	46,610	47,000	47,680	48,780	49,740	50,840	52,060
Beimont	71,070	70,230	69,200	68,030	67,600	66,810	66,320	65,340
SIGVAL	34,970	42,290	44,770	48,050	50,430	53,280	54,770	55,580
	291,460	332,810	320,880	367,660	385,920	403,860	422,150	439,740
	20,320	20,04V	30,200	31,820	32,090 2000	34, I / U	34,02U	35,720
Unampaign	36,020	38,890	39,900	41,270	42,440	44,050	45,360	47,020
Gark A State	147,550	144,740	144,130	142,300	141,950	141,660	142,900	143,960
Clermont	150,170	177,980	190,230	202,830	213,810	225,340	234,830	245,000
SILLION CON	35,420	40,540	42,870	45,470	47,500	49,810	51,530	53,730
Controlatia	108,280	112,080	111,580	111,950	111,070	112,520	27 020	112,000
Coshocion Crawford	33,430	30,000 46 070	30,080	37,070	37,420	37,700	13 850	37,010 43,300
Civanora	1 412 140	1 303 080	1.356.860	43,430	1 309 640	1 301 870	1 289 960	1 274 020
Darke	53 620	53 310	53 260	1,002,040 52,730	52 840	52 550	52 780	52 710
Deflance	39,350	39,500	39 700	39,540	39 750	39 700	39,980	40 180
Delaware	66.930	109,990	136.010	161 730	168,250	215,480	241,780	266.200
Erie	76,780	79,550	81,020	81,420	82,260	82,400	83,180	83,060
Fairfield	103 470	122 760	122 230	143 860	155 330	169 5 <i>4</i> 0	183 590	201 010
Favelle	27 470	28 430	28 330	28 670	28 940	29 570	29 740	30,290
Eranklin	961.440	1.068.980	1.112.880	1 155 910	1,195,310	1 238 250	1.281.760	1,326,180
Fulion	38,500	42.080	43.270	44.610	45.830	47,210	48,190	49.110
Gallia H 📈	30,950	31,070	31,580	32,230	32,780	33,360	33,770	34,020
Geauga	81,130	90,900	94,440	98,820	101,290	104,810	106,790	109,180
Greene	136,730	147,890	148,550	151,760	153,520	156,590	157,240	158,860
Guernsey in	39,020	40,790	40,720	41,400	41,660	42,480	42,740	43,360
Hamilton	866,230	845,300	825,710	807,560	787,940	771,540	752,440	730,570
Francock no	65,540	71,300	73,030	74,180	75,740	76,910	78,250	79,040
hardin	31,110	31,950	32,370	32,450	32,730	32,720	32,960	32,830
carnson	16,090	15,860	15,730	15,710	15,610	15,680	15,570	15,460
Henry	29,110	29,210	29,440	29,540	29,850	29,990	30,200	30,110
Highland	35,730	40,880	42,520	44,640	46,270	48,220	49,480	50,970
HOCKING:	25,530	28,240	28,870	29,840	30,300	31,000	31,200	31,500
HOIMES &	32,850	38,940	40,790	43,440	44,850	47,010	48,280	49,690
Enforce &	56,240	59,490	60,830	62,040	62,610	63,430	63,690	64,020
Joff Trees	30,230	32,640	33,210	34,020	34,270	35,060	35,050	35,680
Velle Sull	80,300 47,470	73,890	70,320 E7 300	66,530	63,600 63,600	60,760 65.040	56,29U 67 040	55,850 ea eao
AKP	215 600	04,000 227 510	230 E10	222 000	00, 100 239 760	00,940 334 530	233,340 233,200	08,080 080 520
Ravrence	61.830	62 320	£30,310 62 580	£33,090 62 010	63 350	204,020 63,830	63,990	84 060
Ckind of a	128.300	145,490	152,840	161 280	169.350	179 050	188.090	198,760
Logansus	42,310	46,010	47,700	49,040	50,420	51,340	52,280	52,500
经济和 有4000000000000000000000000000000000000			az de La de La de					Charles U. Marson (N. Kr

A Burning	CENSUS	CENSUS P	โยงเฮตาเวละว่า	วัดมาระสถิสิน			Ağadı in buddadır. Ağadı işarili sərə	CHIER I
COUNTY	1990	2000	2005		2015-0-20-0-	20220	2025	
Lorain	271,130	284,660	288,400	290,840	295.660	299.630	306,720	312,540
Lucas	462,360	455,050	449,290	444,870	439,370	434,650	426,860	417,870
Madison	37,070	40,210	41,900	43,130	44,290	45,190	46,020	46,520
Mahoning	264,810	257,560	252,660	245 760	241,170	235,350	232,590	226,800
Marion 👾 🔬	64,270	66,220	66,280	66,210	66,750	67,190	67,810	68,200
Medina 🚈	122,350	151,100	161,670	173,760	181,890	191,850	198,470	206,770
Meigs	22,990	23,070	23,500	23,690	23,960	23,990	24,050	23,830
Mercer	39,440	40,920	41,340	41,830	42,630	43,570	44,820	45,960
Mamily	93,180	98,870	100,860	103,460	104,780	106,770	107,120	107,930
Monroe	15,500	15,180	14,760	14,800	14,380	14,280	13,760	13,490
woniqonen	573,810	559,060	551,150	540,420	534,210	528,800	527,300	524,060
	14,190	14,900	15,200	15,200	15,270	15,120	14,960	14,620
			anten d'Errei		ลึงมีแก่สุดครั้ง สุดครั้ง			
N/OFFOW	27,750	31,630	32,730	34,410	35,380	36,890	37,580	38,650
iv <u>us</u> kinguri	82,070	84,590	86,020	87,300	89,380	91,140	93,180	94,560
	11,340	14,060	14,730	15,370	15,840	16,230	16,490	16,690
Cildwa za	40,030	40,990	40,850	40,790	40,450	40,270	39,400	38,520
Pernangas	20,490	20,290	20,110	20,010	19,620	19,430	19,060	10,000
	31,000	54,060	35,720	36,920	38,430	39,500	40,940	41,990
Piloa avay =	40,200	32,730	54,490 39,600	55,660	57,140	58,200	59,320 21,350	29,960
HNC	24,200	152,060	28,090	29,770	30,340	31,060	31,200 162 130	161 880
Préble	40 110	42,340	43 500	44 200	44 810	45 070	45 330	45 380
Britnam	33 820	34 730	34 950	35 080	35 420	35 710	36,050	36,060
Richland -	126 140	128 850	128 190	128 900	128 770	130 050	130 460	132 180
	CONTRACTOR OF CONTRACTOR		5 10 10 10 10 10 10 10 10 10 10 10 10 10					
Ross	69,330	73,350	75.680	78.380	80.480	82.930	85.040	87,430
Sandusky 🖯	61,960	61,790	61,060	59,940	58,910	57,900	57,130	56,420
Scioto	80,330	79,200	79,180	78,820	78,790	78,330	78,510	78,270
Seneca.	59,730	58,680	57,560	56,750	55,420	54,260	52,620	50,920
Shelby	44,920	47,910	49,310	50,220	51,210	51,750	52,420	52,670
Stark	367,590	378,100	376,780	376,470	373,980	372,490	370,060	368,900
Symmitees	514,990	542,900	551,810	557,660	561,810	564,810	565,930	564,210
Trumbulle	227,810	225,120	223,230	218,730	215,990	211,100	207,410	200,990
Tuscarawas	84,090	90,910	91,390	93,160	93,990	96,080	96,610	98,210
Union 🦗 🖓	31,970	40,910	45,230	50,740	56,590	64,570	73,360	85,190
Van Wert	30,460	29,660	29,480	29,330	29,140	28,970	28,640	28,190
Vinton	11,100	12,810	13,480	13,810	14,450	14,710	15,270	15,320
		A CONTRACTOR						venn v die
Warren	113,930	158,380	184,210	215,020	242,710	276,250	305,070	338,350
yvasnington	62,250	63,250	63,890	63,510	63,650	63,080	62,760	61,650
vyayne 🗠 -	101,460	111,560	115,210	119,850	123,520	128,670	132,240	136,690
vvi∥iamso≣	36,960	39,190	39,240	39,260	39,010	38,990	38,770	38,490
vyggg 👫 🗧	113,270	121,070	123,960	127,020	129,500	133,330	136,480	141,880
yvyandot 👫	22,250	22,910	22,870	23,090	23,180	23,400	23,360	23,240

Source of Census Counts - 1990 and 2000 Census of Population and Housing, U.S. Bureau of the Census [Producer and Distributor]

Issued by: Ohio Department of Development, Office of Strategic Research P.O. Box 1001, Columbus, OH 43216-1001, Telephone: (614) 466-2115, March, 2003

Note: These County Totals were edited on 1/27/04, to conform to the rounded format used in the full Population Projections series.

CONTENT STATEMENT

Pursuant to Ohio Administrative Code Section 4901:5-1-03(d), I hereby certify that I am responsible for the filing of this Long-Term Forecast Report and that the information contained herein is true and correct to the best of my knowledge and belief.

David L. Pemberton, Jr., President^V Suburban Natural Gas Company

CERTIFICATE OF SERVICE

I hereby certify that the requirements of Ohio Administrative Code Section 4901:5-1-03 will be met, and copies of the foregoing Long-Term Forecast Report of Natural Gas Demand of Suburban Natural Gas Company have been filed with the county libraries listed on the attached list by regular U.S. mail, postage prepaid, this 1st day of June, 2010.

David L. Pemberton, Jr., President Suburban Natural Gas Company