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April 3, 2017

Arizona Corporation Commission

DOCKETED

Docket Control
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

APR 3 2017

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GB

Re: Notice of Filing – UNS Gas, Inc. Annual Demand-Side Management (“DSM”) Progress Report, Docket No. G-00000G-17-0089

The Gas Energy Efficiency Standards set forth in the Arizona Administrative Code, Section R14-2-2509.A, require UNS Gas, Inc. (“UNS Gas”) to submit an annual DSM Progress Report (“Report”) for each of its Commission-approved DSM programs by April 1st. UNS Gas hereby files its Report for 2016. The TEP and UES Demand Side Management PY2014 Q1-Q4 Measurement, Evaluation and Research Report listed in Appendix 1 of the Report contains confidential and competitively sensitive information and is being provided directly to Commission Staff.

If you have any questions, please feel free to contact me at (520) 884-3680.

Sincerely,

Melissa Morales
Regulatory Services

cc: Barbara Keene, Utilities Division, ACC
Compliance Section, ACC

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UNS Gas, Inc.

2016

Annual DSM

Progress Report

Docket No. G-00000G17-0089

April 1, 2017

UNS Gas, Inc.
2016 ANNUAL DSM PROGRESS REPORT

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Definitions

“AAC” means the Arizona Administrative Code.

“Adjustment mechanism” means a Commission approved provision in Tucson Electric Power Company’s (“TEP”) rate schedule allowing TEP to increase and decrease a certain rate or rates, in an established manner, when increases and decreases in specific costs are incurred by TEP.

“APS” means Arizona Public Service.

“Baseline” means the level of electricity demand, electricity consumption, and associated expenses estimated to occur in the absence of a specific DSM program, determined as provided in R14-2-2413

“C&I” means Commercial and Industrial.

“Commission” means the Arizona Corporation Commission.

“Consumer Education and Outreach” means a program to provide general consumer education about energy-efficiency improvements.

“Cost-effective” means that total incremental benefits from a DSM measure or DSM program exceed total incremental costs over the life of the DSM measure, as determined under R14-2-2412.

“DOE” means the United States Department of Energy.

“Demand savings” means the load reduction, measured in kW, occurring during a relevant peak period or periods as a direct result of energy efficiency and demand response programs.

“DSM” means demand-side management, the implementation and maintenance of one or more DSM programs.

“DSM measure” means any material, device, technology, educational program, pricing option, practice, or facility alteration designed to result in reduced peak demand, increased energy efficiency, or shifting of electricity consumption to off-peak periods and includes combined heat and power used to displace space heating, water heating, or another load.

“DSM program” means one or more DSM measures provided as part of a single offering to customers.

“DSM tariff” means a Commission-approved schedule of rates designed to recover an affected utility’s reasonable and prudent costs of complying with this Article.

“EPA” means the United States Environmental Protection Agency.

“HVAC” means Heating, Ventilation and Air Conditioning.

“Incremental costs” means the additional expenses of DSM measures, relative to baseline.

“IC” means an implementation contractor, a contractor hired to implement a program.

“kW” means kilowatt.

“kWh” means kilowatt-hour.

“Low-income customer” means a customer with a below average level of household income, as defined in an affected utility’s Commission-approved DSM program description.

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“MER” means measurement, evaluation, and research. The process of identifying current baseline efficiency levels and the market potential of DSM measures; performing process and program evaluations including the verification of installed energy efficient measures and reported savings; and identifying additional energy efficiency research opportunities.

“MW” means a Megawatt, 1,000 kilowatts or 1,000,000 watts

“MWh” means a Megawatt Hour, 1,000 kilowatt hours

“NCI” means Navigant Consulting, Inc.

“Net benefits” means the incremental benefits resulting from DSM minus the incremental costs of DSM.

“Non-market benefits” means improvements in societal welfare that are not bought or sold.

“Program costs” means the expenses incurred by an affected utility as a result of developing, marketing, implementing, administering, and evaluating Commission-approved DSM programs.

“Program Implementation” means the implementation of programs including administration, fiscal management of costs for labor, overhead, implementation contractors, or other direct program delivery.

“Program Marketing” means the marketing of programs and increasing DSM consumer awareness (direct program marketing as opposed to general consumer education).

“Planning and Administration” means planning, developing, and administering programs including management of program budgets, oversight of the Request For Proposal process, oversight of ICs, program development, program coordination, customer participation, and general overhead expenses.

“Program Development, Analysis, and Reporting” means the research and development of new DSM program opportunities, analysis of existing and proposed programs and measures, and the tracking and reporting of participation, savings, and benefits. Associated costs are essential to comply with the Commission reporting and rules requirements.

“Rebates & Incentives” means payments made to customers or contractors as rebates or incentives.

“RESNET” means the Residential Energy Services Network.

the “Standard” means the reduction in retail energy sales, in percentage of kWh, required to be achieved through TEP’s approved DSM programs as prescribed in the State of Arizona Administrative Code Article 24, Section R14-2-2404.

“Therm” means 100,000 Btus (British thermal units)

“Thermal envelope” means the collection of building surfaces, such as walls, windows, doors, floors, ceilings, and roofs, that separate interior conditioned (heated or cooled) spaces from the exterior environment.

“Training and Technical Assistance” means Energy-efficiency training and technical assistance for utility employees, contractors, or building officials.

“TEP” means Tucson Electric Power Company.

“UNS Electric” means UNS Electric, Inc.

“UNS Gas” or “Company” means UNS Gas, Inc.

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All other terms and definitions associated with the Energy Efficiency Implementation Plan are contained in AAC R14-2-2401.

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DSM PROGRESS REPORT

1. An analysis of the Company's progress toward meeting the annual energy efficiency standard

1.1 Progress Towards the Standard

In accordance with the Commission's Decision No. 71819 (August 10, 2010), Decision No. 73939 (June 27, 2013), and Arizona Administrative Code Section R14-2-2409 (effective January 1, 2011), UNS Gas, Inc. submits this annual DSM progress report for calendar year 2016. This report includes information for all of UNS Gas' residential and non-residential DSM and Renewable Energy Technology ("RET") programs that were in place during this reporting period.

Commission Decision No. 73939 (June 27, 2013) approved a continued budget for UNS Gas to implement previously approved DSM programs. In Decision No. 73939, UNS Gas was directed to not file future EE Implementation Plans until further ordered by the Commission. Due to the lack of available DSM programs and measures and other reasons outside of the Company's control, UNS Gas was not able to meet the cumulative annual energy savings standard listed in Table 1 of AAC R14-2-2504.B for 2016. The Company will request a waiver of the requirement to meet the end-of-year cumulative savings target as listed in the Standard if directed by the Commission to file a future EE Implementation Plan. UNS Gas' DSM savings, expenditures, societal benefits, incentives, and environmental savings are summarized in Table 1 through Table 5 as noted below.

Table 1	Cumulative Energy Savings As Compared to The Standard
Table 2	Energy Savings By Program
Table 3	Expenses By Program
Table 4	Energy Savings And Societal Benefits
Table 5	Lifetime Environmental Savings By Program

UNS Gas' cumulative energy savings as compared to the Standard are reported in Table 1 below.

Table 1 – Cumulative Energy Savings As Compared to The Standard

Year	Retail Energy Sales (Therms)	Incremental Annual Energy Savings (Therms)	Cumulative Annual Energy Savings (Therms)	Cumulative Annual Savings as a Percent of previous year Retail Sales	Cumulative GEE Standard
2010	140,222,684				
2011	139,990,801	281,203	281,203	0.20%	0.50%
2012	135,765,533	212,420	493,623	0.35%	1.20%
2013	142,678,808	129,437	623,059	0.46%	1.80%
2014	124,030,215	80,096	703,156	0.49%	2.40%
2015	132,492,260	95,079	798,235	0.64%	3.00%
2016		90,463	888,698	0.67%	3.60%

Annual and Lifetime Savings

The DSM portfolio annual and lifetime energy savings are reported in Table 2 below. Savings are separated into the following categories:

- Capacity Savings (MW)

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- Annual MWh Savings
- Annual Therm Savings
- Lifetime MWh Savings
- Lifetime Therm Savings

UNS Gas is including energy savings toward the Standard for changes in energy efficient building codes per AAC R14-2-2404(E). Energy savings from this program are reported in Table 2 below.

Table 2 – Energy Savings By Program

DSM Program	Annual MWh Savings	Annual Therm Savings	Lifetime MWh Savings	Lifetime Therm Savings
Residential Programs				
Low-Income Weatherization	143	12,372 ^b	2,550	129,484 ^c
Residential New Construction	0	13,601	0	408,025
Total for Residential Programs	143	21,000	2,550	537,509
Commercial Programs				
C&I Facilities	0	895	0	13,427
Energy Codes and Standards ^a	0	63,595	0	0
Total for Commercial Programs	0	64,490	0	13,427
Portfolio Totals	143	90,463	2,550	550,936

^aUNS Gas is including an energy savings credit toward the Standard for changes in energy efficient building codes per AAC R14-2-2504(E).

^bLow-Income Weatherization annual savings includes 7,399 therms + 4,973 equivalent therms = 12,372 therms.

^cLifetime therm savings does not include equivalent therms.

1.2 DSM Annual Expenses

The annualized expenses for each program are reported in Table 3 below. Expenses are separated into the following categories:

- Rebates and Incentives
- Training and Technical Assistance
- Consumer Education
- Program Implementation
- Program Marketing
- Planning and Administration
- Measurement, Evaluation, and Research

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Table 3 – Expenses By Program

DSM Program	Rebates and Incentives	Training and Technical Assistance	Consumer Education	Program Implementation	Program Marketing	Planning and Admin	Measurement, Evaluation, and Research	Program Total Cost
Residential Programs								
Low-Income Weatherization	\$113,954	\$501	0	0	\$3,067	0	0	\$117,522
Residential New Construction	\$15,600	0	0	\$2,684	0	0	\$185	\$18,469
Total for Residential Programs	\$129,554	\$501	0	\$2,684	\$3,067	0	\$185	\$135,992
Commercial Programs								
C&I Facilities	\$400	\$145	0	\$23,217	\$1,314	0	\$1,290	\$26,367
Total for Commercial Programs	\$400	\$145	0	\$23,217	\$1,314	0	\$1,290	\$26,367
Portfolio Totals	\$129,954	\$646	0	\$25,902	\$4,381	0	\$1,475	\$162,358
					Program Costs			\$162,358
					Program Development, Analysis, & Reporting			\$11,820
					TOTAL			\$174,178

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1.3 Societal Benefits and Performance Incentives

The portfolio societal benefit calculations are reported in Table 4 below. UNS Gas' portfolio benefit-to-cost ratio for 2016 is 1.32 and includes all program costs and labor.

Table 4 – Energy Savings And Societal Benefits

DSM Program	Societal Benefit	Societal Costs	Net Benefit
Residential Programs			
Low-Income Weatherization	\$232,956	\$117,522	\$115,434
Residential New Construction	\$69,791	\$73,684	-\$3,894
Total for Residential Programs	\$302,746	\$191,206	\$111,540
Commercial Programs			
C&I Facilities	\$2,853	\$29,018	-\$26,164
Total for Commercial Programs	\$2,853	\$29,018	-\$26,164
Portfolio Totals	\$305,600	\$220,224	\$85,376
Program Development, Analysis & Reporting	NA	\$11,820	NA
TOTAL	\$305,600	\$232,044	\$85,376

1.4 Lifetime Environmental Savings

The annualized expenses for each program are reported in Table 5 below. Environmental savings are separated into the following categories:

- sulfur oxides (“SOX”),
- nitrogen oxides (“NOX”),
- carbon dioxide (“CO2”), and
- water consumption

Table 5 – Lifetime Environmental Savings By Program

DSM Program	Lifetime SOX Reduction (lbs)	Lifetime NOX Reduction (lbs)	Lifetime CO2 Reduction (lbs)	Lifetime Water Reduction (gallons)
Residential Programs				
Low-Income Weatherization	1,989	6,426	3,866,110	594,112
Residential New Construction	0	0	4,814,695	0
Commercial Programs				
C&I Facilities	0	0	158,434	0
Portfolio Totals	1,989	6,426	8,839,239	594,112

2. A list of Commission approved DSM and RET programs and measures, organized by customer segment

The Company currently has three Commission approved DSM programs as listed below. As of the date of this report, UNS Gas does not have any RET programs.

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Commission Approved DSM Programs	
Residential Programs	
4.1.	Low-Income Weatherization
4.2.	Residential New Construction
Non-Residential Programs	
4.3.	C&I Facilities Gas Efficiency

3. A description of the findings from any research projects completed during the previous year

UNS Gas did not complete any research projects during this reporting period.

4. Information on UNS Gas' DSM programs

Residential Sector

4.1 Low-Income Weatherization ("LIW")

a. Description

The UNS Gas LIW is designed to improve the energy efficiency of homes for customers whose income falls within the defined federal poverty guidelines. The LIW Program will reduce utility bills for eligible customers and improve their comfort and quality of life. Energy savings realized from the LIW Program will allow low-income customers to better utilize their limited income for other items such as rent, food, or medical expenses.

b. Program Goals, Objectives, and Savings Targets

The objectives of the LIW Program are to:

- Increase the number of homes weatherized each year;
- Reduce low-income customers average household utility bills through the weatherization process; and
- Improve the quality of life for the customers by providing them with a more energy efficient home.

The 2016 energy savings goal was 25,000 therms.

c. Level of Participation

A total of 62 households received weatherization assistance during this reporting period.

d. Costs Incurred

Costs incurred during this reporting period are listed below:

DSM Program	Rebates and Incentives	Training and Technical Assistance	Consumer Education	Program Implementation	Program Marketing	Planning and Admin	Measurement, Evaluation, and Research	Program Total Cost

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Low-Income Weatherization	\$113,954	\$501	0	0	\$3,067	0	0	\$117,522
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^aIncludes \$3,626.26 for health and safety related repairs and \$10,333.50 for Weatherization Agencies' administration expenses.

e. Evaluation and Monitoring Activities and Results

Navigant, with billing data from TEP, UNS Electric, and UNS Gas, analyzed and tracked energy use in weatherized homes for UNS Electric, TEP, and UNS Gas. The average savings per home reviewed was 2,304 kWh and 117 therms of natural gas.

f. kW, kWh, and Therm Savings

The savings for this reporting period are listed below:

Program	Number of Participants	Annual Therm savings ^a	Lifetime Therm savings
LIW	62	12,372	216,509

^aIncludes 4,973 available credits for therm equivalent savings per AAC R14-2-2501.39 and R14-2-2504.A. Savings are adjusted for pipeline losses of 2.0 percent.

g. Environmental Benefits realized

Realized environmental benefits are reflected in Table 5 above.

h. Incremental benefits and net benefit

Incremental benefits and net benefits are reflected in Table 4 above.

i. Performance-incentive calculations for the previous year

There are no performance incentives for UNS Gas.

j. Problems Encountered and Proposed Solutions

UNS Gas, along with other major utilities in Arizona, continues to experience low participation from some low income agencies. Several meetings held in 2015 with all of the state's Weatherization agencies, Arizona Community Action Association ("ACAA") and the ADOH have included discussions on this issue. Some agencies are having difficulty adjusting to the loss of ARRA funding, requiring them to operate on reduced budgets and less staff. The ADOH continues to advise the agencies on best practices to maximize funds. One of the challenges faced by TEP, UNS Electric, and UNS Gas, is the funding limit per LIW household is relatively low compared to other utilities. In 2017, to foster participation UNS Gas may request to use funds from the current over-collection to increase the LIW funding limit per household.

k. Program Modifications

No modifications were made to this program during this reporting period.

l. Programs or Measures Terminated

UNS Gas does not plan to terminate this Program or any measures in 2017. No measures were terminated during this reporting period.

4.2 Residential New Construction Program

a. Description

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The Residential New Construction Program for UNS Gas is marketed as the Energy Smart Homes program ("ESH Program"). The ESH Program emphasizes a whole-house design and construction approach for improving occupant health, safety, comfort, home durability, and energy efficiency. The Program promotes homes that meet the Environmental Protection Agency ("EPA")/Department Of Energy ("DOE") Energy Star® Home performance requirements. To encourage participation, the Program provides incentives to homebuilders for each qualifying home. On-site inspections and field testing of a random sample of homes is required to ensure that homes meet the Energy Star® Home performance requirements; on-site inspections are conducted by third-party Residential Energy Services Network ("RESNET") certified energy raters selected by each builder. Components of the ESH Program include development of branding, builder training curriculum, and marketing material.

The ESH Program is administered as a Joint Utility Program. To earn the Joint Utility Energy Star® Home Certification, a participating builder must meet the EPA/DOE requirements and coordinate the certification process with the applicable electric service provider (APS or UNSE) and UNS Gas.

b. Program Goals, Objectives and Savings Targets

The objectives of the ESH Program are to:

- Educate consumers on the benefits of Energy Star® Homes;
- Stimulate construction of new homes that are inspected and tested to assure energy performance;
- Stimulate energy efficiency standards that are higher than EPA/DOE, Energy Star® performance standards;
- Stimulate the installation of high-efficiency heating systems and fixed gas-fired appliances (Energy Star® products);
- Cultivate customer demand for, and a contractor base to deliver, comprehensive energy efficiency installations in alignment with the "Home Performance with Energy Star Program." http://www.energystar.gov/index.cfm?fuseaction=hpwes_profiles.showsplash
- Work with local builders to construct energy-efficient homes;
- Train builder construction staff and subcontractors in advanced building science concepts to increase energy efficiency through improved design and installation practices;
- Transform the market by improving construction practices in the UNS Gas service territory;
- Encourage participation in the ESH Program by providing incentives to homebuilders for each qualifying home.
- Assist sales agents with promoting and selling energy-efficient homes; and
- Train builder construction staff and subcontractors in advanced building science concepts to increase energy efficiency through improved design and installation practices;
- Increase homebuyer awareness and understanding of energy-efficient building practices and the benefits of purchasing an energy efficient home.

The 2016 goal for the ESH program was 100 certified homes.

The 2016 energy savings goal was 150,000 therms.

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c. Level of Participation

Actual 2016 participation was 78 certified homes. Participating builders and raters indicated a slight downturn in new homes built in the UNS Gas service territory over 2015.

d. Costs Incurred

Costs incurred during this reporting period are listed below:

DSM Program	Rebates and Incentives	Training and Technical Assistance	Consumer Education	Program Implementation	Program Marketing	Planning and Admin	Measurement, Evaluation, and Research	Program Total Cost
Residential New Construction	\$15,600	0	0	\$2,684	0	0	\$185	\$18,469

e. Evaluation and Monitoring Activities and Results

NCI performed quarterly reconciliations for this program to verify coincident demand and energy savings. The MER report is attached in **Appendix 2**.

f. kW, kWh, and Therm Savings

Program	Number of Homes Certified	Annual Therm savings	Lifetime Therm savings
Residential New Construction	78	13,601	408,025

Savings are adjusted for pipeline losses of 2.0 percent.

g. Environmental Benefits realized

Realized environmental benefits are reflected in Table 5 above.

h. Incremental benefits and net benefits

Incremental benefits and net benefits are reflected in Table 4 above.

i. Performance-incentive calculations for the previous year

There are no performance incentives for UNS Gas.

j. Problems Encountered and Proposed Solutions

Though the large geographic territory served by UNS Gas makes builder interaction difficult the Company has increased interaction with builders. Builders indicate low natural gas prices and currently offered incentives do not justify higher equipment cost and do not encourage participation in the program.

k. Program Modifications

No modifications were made to this program during this reporting period.

l. Programs or Measures Terminated

UNS Gas does not plan to terminate the ESH Program or any Program measures in 2017. No measures were terminated during this reporting period.

Non-Residential Sector

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4.3 Commercial and Industrial Facilities Gas Efficiency Program (“C&I Program”)

a. Description

The C&I Program is designed to promote the installation of high-efficiency gas-fueled equipment and systems at existing commercial and industrial facilities within the UNS Gas service area.

b. Program Goals, Objectives and Savings Targets

The C&I Program objectives are to:

- Help commercial and industrial customers reduce and manage their energy costs;
- Reduce greenhouse gas emissions; and
- Lower overall rates and energy costs compared to other resource options.

The 2016 energy savings goal was 331,000 therms.

c. Level of Participation

There were two participating customers in the C&I Program during this reporting period.

d. Costs Incurred

Costs incurred during this reporting period are listed below:

DSM Program	Rebates and Incentives	Training and Technical Assistance	Consumer Education	Program Implementation	Program Marketing	Planning and Admin	Measurement, Evaluation, and Research	Program Total Cost
C&I Facilities	\$400	\$145	0	\$23,217	\$1,314	0	\$1,290	\$26,367

e. Evaluation and Monitoring Activities and Results

NCI performed quarterly reconciliations for this program to verify coincident demand and energy savings. The MER report is attached in **Appendix 2**.

f. kW, kWh, and Therm Savings

Measure	Number of Measures Installed	Annual Therm savings	Lifetime Therm savings
HVAC	2	895	13,427

Savings are adjusted for pipeline losses of 2.0 percent.

g. Environmental Benefits realized

Realized environmental benefits are reflected in Table 5 above.

h. Incremental benefits and net benefits

Incremental benefits and net benefits are reflected in Table 4 above.

i. Performance-incentive calculations for the previous year

There are no performance incentives for UNS Gas.

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- j. Problems Encountered and Proposed Solutions**
Participation and therm savings have decreased substantially since 2011. Without additional EE measures it is difficult to increase program participation and savings, and meet the Standard.
- k. Program Modifications**
No modifications were made to this program during this reporting period.
- l. Programs or Measures Terminated**
UNS Gas does not plan to terminate this Program or any measures in 2017. No measures were terminated during this reporting period.

Appendix 1 – Commission Approved DSM Programs & Measures for 2016

DSM Program	Decision	Approved Measures
Residential Programs		
Low-Income Weatherization	73939, 70180	Whole House Low Income Weatherization
Residential New Construction	73939, 72023, 70180	Energy Smart Home Joint Utility Program
Non-Residential Programs		
C&I Facilities Gas Efficiency	73939 70180	High Efficiency Furnace under 300 kBtuh > 92% eff
	70180	High Efficiency Furnace under 300 kBtuh > 95% eff
	70180	Storage Water Heater < 75000 Btuh
	70180	Storage Water Heater => 75000 Btuh
	70180	High Efficiency Space Heating Hot Water Boiler < 300 kBtuh
	70180	High Efficiency Space Heating Hot Water Boiler => 300 kBtuh
	70180	High Efficiency Griddle
	70180	Packaged AC with High Efficiency Furnace

Appendix 2 – Navigant Consulting, Inc, Measurement, Evaluation, and Research Report

The Navigant Consulting, Inc. report is provided directly to Commission Staff.