OMB Control No. 2060-0328
Expires 4/30/2022

Implementation Plan

Production Sector

Company Information

Company Name: _____

Gas Star Contact: _____

Position: _____

Address: _____

_____

City, State, Zip Code: _____

Telephone: _____

Fax: _____

Email: _____

Implementation Plan Elements

ELEMENT 1 Best Management Practices (BMPs)

The following BMPs have been identified as significant opportunities to cost effectively reduce methane emissions from the production sector. They were selected based on their applicability to the industry, economic feasibility, and cost-effectiveness. There are two core BMPs for the production sector:

BMP 1 Identify and replace high-bleed pneumatic devices
BMP 2 Install flash tank separators on glycol dehydrators

For detailed information on these BMPs, please refer to the Lessons Learned publications on the Natural Gas STAR website: *https://www.epa.gov/natural-gas-star-program/recommended-technologies-reduce-methane-emissions*.

ELEMENT 2 Additional Activities

Current partners have reported many processes and technologies that are considered additional Best Management Practices by the program. New partners are encouraged to evaluate and report current and new practices or technologies that cost effectively reduce methane emissions

ELEMENT 3 Inventory Past Reductions

Partners are encouraged to report past methane emission reductions back to 1990. Accounting for these historical reductions will create a permanent record of your company's methane emission reduction efforts. In addition, reviewing past activities will help guide companies' participation in Natural Gas STAR by creating a base of understanding of current activities to facilitate planning of future activities.

The Implementation Plan is designed to be a dynamic tool for Natural Gas STAR Partners to plan their program activities. As company priorities and plans shift over time, the Implementation Plan may be revised or updated by submitting a new form to the program. The Partner should only share non-Confidential Business Information (CBI) to fulfill Gas STAR Program requirements.

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ELEMENT 1
Best Management Practices

BMP 1
Identify and Replace High-Bleed Pneumatic Devices

Pneumatic devices used to control and monitor gas and liquid flows and levels in dehydrators and separators, temperature in dehydrator regenerators, and pressure in flash tanks emit large amounts of methane into the atmosphere. Replacing these with low- or no-bleed devices reduces or eliminates emissions and improves safety.	Estimated Reduction Potential 124 Mcf/year/device

Will you be implementing this BMP? ☐ Yes ☐ No

If no, why?

- ☐ Not cost effective
- ☐ May consider at a later date
- ☐ Other _____

Please describe:

If yes, at what scale will you be implementing this BMP?

- ☐ Company Wide
- ☐ Pilot Project
- ☐ Other

Please describe:

Activity Summary

Number of high-bleed pneumatic devices in system? _____

Number of high-bleed pneumatic devices to be replaced? _____

Replacement Schedule

Number of high-bleed pneumatic devices to be replaced by the end of:

Year 1: _____ Year 2: _____ Year 3: _____ Year 4: _____

Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

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BMP 2
Install Flash Tank Separators on Glycol Dehydrators

Installing a flash tank separator in a glycol dehydrator facilitates the removal of methane and natural gas liquids from the glycol stream. The recovered gas can be put back into the pipeline, used as a fuel on-site, or flared.	Estimated Reduction Potential 170 scf/MMcf of throughput

Will you be implementing this BMP? ☐ Yes ☐ No

If no, why?

- ☐ Not cost effective
- ☐ May consider at a later date
- ☐ Other _____

Please describe:

If yes, at what scale will you be implementing this BMP?

- ☐ Company Wide
- ☐ Pilot Project
- ☐ Other _____

Please describe:

Activity Summary

Number of glycol dehydrators currently equipped with flash tank separators _____

Number of glycol dehydrators suitable for flash tank installation? _____

Replacement Schedule

Number of flash tank separators to be installed by the end of:

Year 1: _____ Year 2: _____ Year 3: _____ Year 4: _____

Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

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ELEMENT 2
Additional Activities

Additional Activities

Your company may take advantage of additional technologies or practices to reduce methane emissions. The following is a list of some of the additional activities that have been reported by other Natural Gas STAR partners, which may be applicable to your operations (for more information on these activities, please view: *https://www.epa.gov/natural-gas-star-program/recommended-technologies-reduce-methane-emissions*):

- ☆ Install Vapor Recovery Units (VRUs) on storage tanks
- ☆ Artificial lift: Install plunger lifts in gas wells
- ☆ Reduce venting from unlit pilot: install electronic safety devices
- ☆ Install instrument air systems
- ☆ Eliminate unnecessary equipment and/or systems
- ☆ Perform reduced emissions completions for hydraulically fractured natural gas wells

Additional activities you will be implementing	Please describe
Activity _____ At what scale will this activity be implemented? ☐ Company Wide ☐ Pilot Project ☐ Other _____.	
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ELEMENT 3
Inventory Past Reductions

An inventory of past reductions will help to create a permanent record of your past efforts.

As a first step, many new partners find it useful to inventory and document past methane emission reduction efforts. The inventory process helps companies quantify the success of their past activities and target future emission reduction efforts. Historical methane emission reductions identified as part of the inventory process can be reported to the Natural Gas STAR Program.

Will you inventory past activities to include in your annual report? ☐ Yes ☐ No

If yes, please describe your company's plans for reviewing past methane emission reduction activities.

The Natural Gas STAR Program thanks you for your time.

Please send completed forms to:

Regular Mail
Natural Gas STAR Program
U.S. EPA (6207A)
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Express/Overnight Mail
Natural Gas STAR Program
1201 Constitution Ave NW
Room Number 4353PP
Washington, DC 20004

Questions? Please call Jerome Blackman at (202) 343-9630, or send an email to GasSTAR@epa.gov.