

| Number of Respondents | | | | | |
|------------------------------|----------------------------------|---------------------------------------|---|---|---|
| | Respondents That Submit Reports | | Respondents That Do Not Submit Any Reports | | |
| Year | (A) Number of New Respondents | (B) Number of Existing Respondents | (C) Number of Existing Respondents that keep records but do not submit reports | (D) Number of Existing Respondents That Are Also New Respondents | (E) Number of Respondents (E=A+B+C-D) |
| 1 | 0 | 532 | 0 | 0 | 532 |
| 2 | 0 | 532 | 0 | 0 | 532 |
| 3 | 0 | 532 | 0 | 0 | 532 |
| Average | 0 | 532 | 0 | 0 | 532 |

¹ New respondents include sources with constructed, reconstructed, and modified affected facilities. Facilities that commence construction, modification, or reconstruction after September 18, 2015 are subject to 40 CFR 60, Subpart OOOOa.

Revised to remove new respondents; all new facilities are subject to OOOOa.

| Total Annual Responses | | | | |
|--|------------------------------|----------------------------|---|--|
| (A) Information Collection Activity | (B) Number of Respondents | (C) Number of Responses | (D) Number of Existing Respondents That Keep Records But Do Not Submit Reports | (E) Total Annual Responses E=(BxC)+D |
| Notifications ^a | | | | |
| Gas well completion | 0 | 33 | 0 | 0 |
| Gas well recompletion | 0 | 4 | 0 | 0 |
| New gas processing plant | 0 | 1 | 0 | 0 |
| New sweetening unit | 0 | 1 | 0 | 0 |
| Annual reports | | | | |
| Gas well completion/recompletion | 0 | 1 | 0 | 0 |
| Sweetening unit | 12 | 1 | 0 | 12 |
| Centrifugal compressor | 52 | 1 | 0 | 52 |
| Reciprocating compressor | 1,676 | 1 | 0 | 1,676 |
| Production pneumatic controller | 300 | 1 | 0 | 300 |
| Gas processing pneumatic controller | 45 | 1 | 0 | 45 |
| Storage vessel | 304 | 1 | 0 | 304 |
| Semiannual reports | | | | |
| Gas processing plant | 87 | 2 | 0 | 174 |
| | | | Total | 2,563 |

ERG Notes:

-prev renewa

Footnotes:

a These notifications are initial notifications for sources constructed, modified or re-constructed after August 2011 and prior to September 2015.

hrs/response: 27

al: 3,230 responses, 21 hrs/response.

Table 1: Annual Respondent Burden and Cost – NSPS for Oil and Natural Gas Production 60, Subpart OOOO) (Renewal)

| Burden item | A | B | C |
|---|-----------------------------|-----------------------------------|--|
| | Person-hours per occurrence | Annual occurrences per respondent | Person-hours per respondent per year (AxB) |
| 1. Applications | N/A | | |
| 2. Survey and Studies | N/A | | |
| 3. Acquisition, installation, and utilization of technology and systems | N/A | | |
| 4. Report requirements | N/A | | |
| a. Familiarization with the rule requirements ^c | 1 | 1 | 1 |
| b. Required activities | | | |
| i. Notification of gas well completion ^d | 0.5 | 33 | 17 |
| ii. Notification of gas well recompletion ^d | 0.5 | 4 | 2 |
| iii. Notification of new gas processing plant ^e | 1 | 1 | 1 |
| iv. Notification of new sweetening unit ^f | 1 | 1 | 1 |
| c. Create information | See 4B | | |
| d. Gather existing information | See 4E | | |
| e. Annual reports | | | |
| i. Gas well completion/recompletion ^d | 16 | 1 | 16 |
| ii. Sweetening unit ^f | 1 | 1 | 1 |
| iii. Centrifugal compressor ^g | 8 | 1 | 8 |
| iv. Reciprocating compressor ^h | 8 | 1 | 8 |
| v. Production pneumatic controller ⁱ | 8 | 1 | 8 |
| vi. Gas processing pneumatic controller ^j | 8 | 1 | 8 |
| vii. Storage vessel ^k | 8 | 1 | 8 |
| f. Semiannual reports | | | |
| i. Gas processing plant ^l | 40 | 2 | 80 |
| Reporting Subtotal | | | |
| 5. Recordkeeping requirements | | | |
| a. Read instructions | See 4A | | |
| b. Plan activities | See 4B | | |
| c. Implement activities | | | |
| i. Filing and maintaining records ^m | 5 | 12 | 60 |
| ii. Filing and maintaining records ⁿ | 5 | 12 | 60 |
| d. Record data | N/A | | |
| e. Time to transmit or disclose information | | | |
| i. Records required by standards | See 5C | | |
| f. Time to train personnel | See 5C | | |
| g. Time for audits | N/A | | |
| Recordkeeping Subtotal | | | |
| TOTAL LABOR BURDEN AND COST (rounded) ^o | | | |
| TOTAL CAPITAL AND O&M COST (rounded) ^o | | | |
| GRAND TOTAL (rounded) ^o | | | |

N/A - Not Applicable

Assumptions:

a EPA estimates an average of 532 existing sources and no new sources will be subject to the standard over the next 10 years. This number includes 136 transmission and storage operations, 116 processing plants and 12 sweetening units.

b This ICR uses the following labor rates: \$147.40 per hour for Executive, Administrative, and Managerial labor; \$105.00 per hour for Professional labor; and \$73.50 per hour for all other labor. Rates are from the United States Department of Labor, Bureau of Labor Statistics, June 2018, "Table 2. Civilian Work Compensation." The rates have been increased by 110% to account for the benefit packages available to those employees.

c This burden represents the time existing respondents spend re-familiarizing themselves with rule requirements, and initial notification and annual reporting for completions and recompletions is required for gas wells that commenced construction before September 18, 2015. New gas wells or gas wells modified after September 18, 2015 are subject to requirements under 40 CFR 60 Subpart OOOOa.

d Processing plants that commenced construction, modification or reconstruction after September 18, 2015 are subject to requirements under 40 CFR 60 Subpart OOOOa.

e EPA estimates an average of 12 existing sweetening units and no new sweetening units. EPA estimates that 75% of sweetening units that commenced construction, modification or reconstruction after September 18, 2015 are subject to requirements under 40 CFR 60 Subpart OOOOa.

f EPA estimates an average of 52 existing and no new centrifugal compressors equipped with wet seals at processing plants. EPA estimates that 75% of centrifugal compressors equipped with wet seals at processing plants that commenced construction, modification or reconstruction after September 18, 2015 are subject to requirements under 40 CFR 60 Subpart OOOOa.

g EPA estimates an average of 1,676 existing and no new reciprocating compressors. New reciprocating compressors that commenced construction, modification or reconstruction after September 18, 2015 are subject to requirements under 40 CFR 60 Subpart OOOOa.

h EPA estimates 13,632 pneumatic controllers across the 300 exploration & production sites. EPA estimates that all pneumatic controllers at affected processing plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

i EPA estimates an average of 60 existing and no new pneumatic controllers at affected processing plants. EPA estimates that all pneumatic controllers at affected processing plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

j EPA estimates an average of 304 existing and no new respondents in the production, processing, transmission, or storage activities. EPA estimates that 75% of respondents cover approximately four storage vessels, based on research the Agency conducted during initial rule development.

k EPA estimates an average of 116 existing and no new gas processing plants. EPA estimates that 75% of those plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

l EPA estimates an average of 116 existing and no new gas processing plants. EPA estimates that 75% of those plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

m Activity applies to exploration & production businesses and transmission & storage operations, for which EPA estimates an average of 116 existing and no new gas processing plants. EPA estimates that 75% of those plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

n Activity applies to gas processing plants and sweetening units. EPA estimates an average of 116 existing and no new gas processing plants. EPA estimates that 75% of those plants are subject to requirements under 40 CFR 60 Subpart OOOOa.

o Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

1 and Natural Gas Transmission and Distribution (40 CFR Part

| D | E | F | G | H |
|--|---------------------------------------|---|---|--------------------------------------|
| Respondents per year ^a | Technical hours per year (CxD) | Management hours per year (Ex0.05) | Clerical hours per year (Ex0.10) | Annual cost (\$) ^b |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 532 | 532 | 26.6 | 53.2 | \$69,687.74 |
| | | | | |
| 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 |
| 9 | 9 | 0.45 | 0.9 | \$1,178.93 |
| 39 | 312 | 16 | 31 | \$40,869.50 |
| 1,676 | 13,408 | 670 | 1,341 | \$1,756,340.74 |
| 300 | 2,400 | 120 | 240 | \$314,380.80 |
| 45 | 360 | 18 | 36 | \$47,157.12 |
| 304 | 2,432 | 122 | 243 | \$318,572.54 |
| | | | | |
| 87 | 6,960 | 348 | 696 | \$911,704.32 |
| | | 30,375 | | \$3,459,892 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 436 | 26,160 | 1,308 | 2,616 | \$3,426,750.72 |
| 128 | 7,680 | 384 | 768 | \$1,006,018.56 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | 38,916 | | \$4,432,769 |
| | | 69,300 | | \$7,890,000 |
| | | | | \$1,220,000 |
| | | | | \$9,110,000 |

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at three years. Existing sources comprise 300 exploration and production sources expected to decrease over time as sources are modified or retired from service.

\$117.92 per hour for Technical labor, and \$57.02 per hour for Clerical labor. These workers, by Occupational and Industry group.” The rates are from column 1, “Total employed by private industry.

for that new respondents spend learning rule requirements.

for construction, modification or reconstruction after August 23, 2011, and on or after dates under 40 CFR 60, Subpart OOOOa.

subject to requirements under 40 CFR 60, Subpart OOOOa.

of those sweetening units will experience one reportable deviation per year.

subject to requirements under 40 CFR 60 Subpart OOOOa.

ing plants. EPA estimates that 75% of those centrifugal compressors will experience increased construction, modification or reconstruction after September 18, 2015 are

sources that commenced construction, modification or reconstruction after September

300 sites will experience one reportable deviation per year.

estimates that 75% of those pneumatic controllers will experience one reportable

storage segment will submit annual reports. EPA anticipates each report will

sources will experience one reportable deviation per year.

estimates an average of 300 and 136 sources, respectively.

ing plants and 12 existing sweetening units.

| Labor Rates: | |
|--------------|-----------|
| Management | \$ 147.40 |
| Technical | \$ 117.92 |
| Clerical | \$ 57.02 |

These rates were updated 11/15/18 to match the United States Depart

its

| Source Type | No. |
|------------------------|------------|
| Existing | 532 |
| Exploration/production | 300 |
| Transmission/storage | 136 |
| Processing plants | 116 |
| Sweetening units | 12 |
| New | 0 |
| Processing plants | 0 |
| Sweetening units | 0 |

its (removes new respondents)

ERG Notes: We expect the number of sources subject to decrease over time as facilities are modified.

its (removes new respondents)

its (removes new respondents)

its (removes new respondents)

its (removes new respondents)

ment of Labor, Bureau of Labor Statistics, June 2018, "Table 2. Civilian Workers, by occupational and industry gro

up

Table 2: Average Annual EPA Burden and Cost – NSPS for Oil and Natural Gas Production

| Burden item | A | B | C | D |
|---|---------------------------------|-----------------------------------|--|-----------------------------------|
| | EPA person-hours per occurrence | Annual occurrences per respondent | EPA person-hours per respondent per year (AxB) | Respondents per year ^a |
| Review initial notifications ^c | | | | |
| i. Notification of gas well completion | 0.5 | 33 | 17 | 0 |
| ii. Notification of gas well recompletion | 0.5 | 4 | 2 | 0 |
| iii. Notification of new gas processing plant | 0.5 | 1 | 1 | 0 |
| iv. Notification of new sweetening unit | 0.5 | 1 | 1 | 0 |
| Review annual reports | | | | |
| i. Gas well completion/recompletion | 1 | 1 | 1 | 0 |
| ii. Sweetening unit | 1 | 1 | 1 | 9 |
| iii. Centrifugal compressor | 1 | 1 | 1 | 39 |
| iv. Reciprocating compressor | 1 | 1 | 1 | 1,676 |
| v. Production pneumatic controller | 1 | 1 | 1 | 300 |
| vi. Gas processing pneumatic controller | 1 | 1 | 1 | 45 |
| vii. Storage vessel | 1 | 1 | 1 | 304 |
| Review semiannual reports | | | | |
| i. Gas processing plant | 1 | 2 | 2 | 87 |
| TOTAL (rounded) ^c | | | | |

Assumptions:

a EPA estimates an average of 532 existing sources and no new sources will be subject to the standard over the next 10 years. Sources include 136 production businesses, 136 transmission and storage operations, 116 processing plants and 12 sweetening units.

b This cost is based on the following labor rates which incorporates a 1.6 benefits multiplication factor to account for Step 5, \$41.07 + 60%), Technical rate of \$48.75 (GS-12, Step 1, \$30.47 + 60%), and Clerical rate of \$26.38 (GS-6, Step 1, \$16.49 + 60%) Management (OPM) “2018 General Schedule” which excludes locality rates of pay.

c Initial notification is required for these source categories that commenced construction, modification or reconstruction after September 18, 2015 are subject to 40 CFR 60, Subpart D.

d Totals have been rounded to 3 significant figures. Figures may not add exactly due to rounding.

1 and Natural Gas Transmission and Distribution (40 CFR Part 60, Subpart OOOO) (Renew

| E | F | G | H |
|--|---|---|--------------------------------------|
| Technical hours per year (Cx D) | Management hours per year (Ex0.05) | Clerical hours per year (Ex0.10) | Annual cost (\$) ^b |
| 0 | 0.0 | 0 | \$0 |
| 0 | 0 | 0 | \$0 |
| 0.0 | 0.00 | 0.00 | \$0 |
| 0.0 | 0.00 | 0.00 | \$0 |
| 0 | 0 | 0 | \$0 |
| 9 | 0.45 | 0.9 | \$492.06 |
| 39 | 1.95 | 3.9 | \$2,132.27 |
| 1,676 | 83.80 | 167.6 | \$91,632.79 |
| 300 | 15 | 30 | \$16,402.05 |
| 45 | 2.25 | 4.5 | \$2,460.31 |
| 304 | 15 | 30 | \$16,620.74 |
| 174 | 8.7 | 17 | \$9,513.19 |
| 2,900 | | | \$139,000 |

| Labor Rates: | |
|---------------------|----------|
| Management | \$ 65.71 |
| Technical | \$ 48.75 |
| Clerical | \$ 26.38 |

These rates

ERG Notes: We expect the number of sources

three years. Existing sources comprise 300 exploration and

government overhead expenses: Managerial rate of \$65.71 (GS-13, step 3, \$16.49 + 60%). These rates are from the Office of Personnel

on after August 23, 2011, and on or before September 18, 2015. New subpart OOOOa.

val)

; were updated 11/15/18 to match the rates from the Office of Personnel Management (OPM), 2018 General Sche

ces subject to decrease over time as facilities are modified.

dule.

Capital/Startup vs. Operation and Maintenance (O&M) Costs

| (A) | (B) | (C) | (D) | (E) |
|---|---|---------------------------|-------------------------------------|--|
| Requirement | Capital/Startup Cost for One Respondent | Number of New Respondents | Total Capital/Startup Cost, (B X C) | Annual O&M Costs for One Respondent ¹ |
| SO ₂ CEMS (control outlet) | \$73,000 | 0 | \$0 | \$17,100 |
| Continuous control device monitoring for centrifugal compressors ² | N/A | 0 | \$0 | \$804 |
| Continuous control device monitoring for storage vessels ² | N/A | 0 | \$0 | \$804 |
| Total | | | \$0 | |

CEM - Continuous Emission Monitoring System

N/A - Not Applicable

Assumptions:

¹ Annual O&M costs for centrifugal compressors and storage vessels were calculated assuming 2 hours per month at \$33.51 per hour

² Capital/Startup costs for continuous control device monitoring were included in storage vessel and centrifugal compressor costs

| (F) | (G) |
|--------------------------------|--------------------|
| Number of Respondents with O&M | Total O&M, (E X F) |
| 12 | \$205,200 |
| 52 | \$41,808 |
| 1,216 | \$977,664 |
| | \$1,220,000 |

ERG Notes

Revised to remove new responde

er hour.

ontrol device costs.

nts.