

# Appendix I: Burden and Cost for Petroleum and Natural Gas Systems (Subpart W)

Appendix I-1: Detailed Unit Burden and Costs  
Appendix I-2: Summary of Burden and Cost by Activity and Year  
Appendix I-3: Change in Burden and Cost

**11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W)**

**I-1a. GAS PROCESSING**

**LABOR, AVERAGE PROCESSING FACILITY (PROCESS EMISSIONS ONLY)**

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	1.91	0.00	0.18	0.36	\$210
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	6.28	0.00	0.42	0.72	\$620
Sampling and Analysis (Calculations)	10.14	31.06	0.00	2.00	\$3,075
Reporting	22.57	0.00	0.11	3.16	\$2,117
<b>Total</b>	<b>40.90</b>	<b>31.06</b>	<b>0.70</b>	<b>6.24</b>	<b>\$6,022.21</b>

**NON-LABOR, AVERAGE PROCESSING FACILITY (PROCESS EMISSIONS ONLY)**

Activity	Equipment			Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)	Discount Rate (%)		
Equipment (select, purchase, install)	\$3,046	5	7%	\$743	
Equipment (select, purchase, install)	\$0	1			
Performance testing					
Recordkeeping	\$235	5	7%	\$57	
Travel					\$427
<b>Total</b>	<b>\$3,281</b>			<b>\$800</b>	<b>\$427</b>

**LABOR, AVERAGE GAS PROCESSING FACILITY (COMBUSTION)**

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1b. TRANSMISSION COMPRESSOR STATIONS

LABOR, AVERAGE COMPRESSOR STATION (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	0.07	0.00	0.00	0.01	\$6
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	2.49	0.00	0.08	0.09	\$214
Sampling and Analysis (Calculations)	7.67	27.71	0.00	2.00	\$2,659
Reporting	17.83	0.00	0.00	0.42	\$1,441
<b>Total</b>	<b>28.06</b>	<b>27.71</b>	<b>0.08</b>	<b>2.52</b>	<b>\$4,321</b>

NON-LABOR, AVERAGE COMPRESSOR STATION (PROCESS EMISSIONS ONLY)

Activity	Equipment		Discount Rate (%)	Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)			
Equipment (select, purchase, install)	\$1,385	5	7%	\$338	\$0
Equipment (select, purchase, install)	\$0	1		\$0	\$0
Performance testing					
Recordkeeping	\$30	5	7%	\$7	
Travel					\$1,008
<b>Total</b>	<b>\$1,415</b>			<b>\$345</b>	<b>\$1,008</b>

LABOR, AVERAGE GAS COMPRESSOR STATION (COMBUSTION)

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1c STORAGE

LABOR, AVERAGE STORAGE FACILITY (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	2.44	0.00	0.08	0.49	\$252
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	5.44	0.00	0.43	0.65	\$548
Sampling and Analysis (Calculations)	6.96	33.34	0.00	3.00	\$3,085
Reporting	18.98	0.00	0.11	3.17	\$1,838
<b>Total</b>	<b>33.83</b>	<b>33.34</b>	<b>0.62</b>	<b>7.30</b>	<b>\$5,723</b>

NON-LABOR, AVERAGE STORAGE FACILITY (PROCESS EMISSIONS ONLY)

Activity	Equipment		Discount Rate (%)	Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)			
Equipment (select, purchase, install)	\$674	5	7%	\$164.37	\$0
Equipment (select, purchase, install)	\$0	1		\$0	\$0
Performance testing					
Recordkeeping	\$131	5	7%	\$31.95	
Travel					\$1,106
<b>Total</b>	<b>\$805</b>	<b>\$0</b>	<b>\$0</b>	<b>\$196</b>	<b>\$1,106</b>

\* Appendix A of the current ICR (OMB No. 2060-0651, ICR No. 2376.05) contained errors in the non-labor costs for storage facilities. These errors did not significantly impact the costs reported in Appendix B and in Table 6-1.

LABOR, AVERAGE STORAGE FACILITY (COMBUSTION)

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1d. LNG TERMINALS

LABOR, AVERAGE LNG TERMINAL (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	2.43	0.00	0.08	0.51	\$254
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	6.00	0.00	0.40	0.60	\$583
Sampling and Analysis (Calculations)	23.77	21.50	0.00	5.00	\$3,827
Reporting	27.41	0.00	0.10	4.00	\$2,585
<b>Total</b>	<b>59.60</b>	<b>21.50</b>	<b>0.58</b>	<b>10.11</b>	<b>\$7,248</b>

NON-LABOR, AVERAGE LNG TERMINAL (PROCESS EMISSIONS ONLY)

Activity	Equipment			Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)	Discount Rate (%)		
Equipment (select, purchase, install)	\$2,381	5	7%	\$581	
Equipment (select, purchase, install)	\$7,000	1		\$0	
Performance testing					
Recordkeeping	\$78	5	7%	\$19	
Travel					\$1,956
<b>Total</b>	<b>\$9,460</b>			<b>\$600</b>	<b>\$1,956</b>

LABOR, AVERAGE GAS PROCESSING FACILITY (COMBUSTION)

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1e ONSHORE PRODUCTION

**LABOR, AVERAGE ONSHORE PRODUCTION FACILITY (PROCESS EMISSIONS ONLY)**

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	1.37	0.00	0.16	0.36	\$165
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	9.00	0.00	0.19	0.50	\$781
Sampling and Analysis (Calculations)	31.70	0.00	0.00	2.00	\$2,696
Reporting	20.59	0.00	0.09	5.00	\$2,158
<b>Total</b>	<b>62.66</b>	<b>0.00</b>	<b>0.44</b>	<b>7.86</b>	<b>\$5,800</b>

**NON-LABOR, AVERAGE ONSHORE PRODUCTION FACILITY (PROCESS EMISSIONS ONLY)**

Activity	Equipment				O&M Costs
	Capital Cost	Lifetime (years)	Discount Rate (%)	Annualized Capital Cost	
Equipment (select, purchase, install)	\$0	5	7%	\$0	
Equipment (select, purchase, install)	\$0	1		\$0	
Performance testing					
Recordkeeping	\$235	5	7%	\$57	
Travel					\$0
<b>Total</b>	<b>\$235</b>			<b>\$57</b>	<b>\$0</b>

**LABOR, AVERAGE ONSHORE PRODUCTION FACILITY (COMBUSTION)**

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Annual Activities	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1f. LOCAL DISTRIBUTION COMPANIES

LABOR, AVERAGE LDC FACILITY (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	2.41	0.00	0.08	0.48	\$250
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	5.13	0.00	0.42	0.64	\$521
Sampling and Analysis (Calculations)	9.75	76.34	0.00	3.00	\$6,166
Reporting	17.94	0.00	0.11	3.12	\$1,751
<b>Total</b>	<b>35.23</b>	<b>76.34</b>	<b>0.61</b>	<b>7.24</b>	<b>\$8,687</b>

NON-LABOR, AVERAGE LDC FACILITY (PROCESS EMISSIONS ONLY)

Activity	Equipment		Discount Rate (%)	Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)			
Equipment (select, purchase, install)	\$365	5	7%	\$89	
Equipment (select, purchase, install)		5			
Performance testing					
Recordkeeping	\$235		7%	\$57	
Travel					\$1,598
<b>Total</b>	<b>\$600</b>			<b>\$146</b>	<b>\$1,598</b>

\*\* No combustion costs associated with LDC facilities \*\*\*

11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1g LNG STORAGE

LABOR, AVERAGE LNG STORAGE FACILITY (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	2.42	0.00	0.08	0.47	\$249
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	4.49	0.00	0.42	0.64	\$471
Sampling and Analysis (Calculations)	14.35	16.00	0.00	1.88	\$2,389
Reporting	18.09	0.00	0.11	3.12	\$1,763
<b>Total</b>	<b>39.35</b>	<b>16.00</b>	<b>0.61</b>	<b>6.11</b>	<b>\$4,872</b>

NON-LABOR, AVERAGE LNG STORAGE FACILITY (PROCESS EMISSIONS ONLY)

Activity	Equipment			Annualized Capital Cost	O&M Costs
	Capital Cost	Lifetime (years)	Discount Rate (%)		
Equipment (select, purchase, install)	\$1,509	5	7%	\$368	
Equipment (select, purchase, install)	\$0	1	7%	\$0	
Performance testing					
Recordkeeping	\$235	5	7%	\$57	
Travel					\$784
<b>Total</b>	<b>\$1,744</b>			<b>\$425</b>	<b>\$784</b>

LABOR, AVERAGE GAS PROCESSING FACILITY (COMBUSTION)

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>



11. Detailed Unit Burden and Costs for Petroleum and Natural Gas Systems (Subpart W) (cont.)

I-1h OFFSHORE PRODUCTION

LABOR, AVERAGE OFFSHORE FACILITY (PROCESS EMISSIONS ONLY)

Activity	Labor Hours				Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Engineer	Technician	Senior Manager	Middle Manager	
	78.29	66.57	121.72	106.89	
Planning	10.26	0.00	1.03	2.07	\$1,150
QA/QC	0.00	0.00	0.00	0.00	\$0
Recordkeeping	0.42	0.00	0.03	0.06	\$43
Sampling and Analysis (Calculations)	0.15	0.00	0.00	0.00	\$12
Reporting	9.44	0.00	0.17	2.02	\$976
<b>Total</b>	<b>20.27</b>	<b>0.00</b>	<b>1.23</b>	<b>4.15</b>	<b>\$2,180</b>

\*\*No Capital or O&M Costs for Offshore Facilities

LABOR, AVERAGE GAS PROCESSING FACILITY (COMBUSTION)

Activity	Labor Hours		Labor Cost per Year per Reporting Unit/Facility (2011\$)
	Technical(1)	Management	
	72.43	114.31	
Develop QA & Monitoring Plan	0.00	0.00	\$0
Travel	11.84	11.84	\$2,211
<b>Total</b>	<b>11.84</b>	<b>11.84</b>	<b>\$2,211</b>

I2. Summary of Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) by Activity and Year (1)

Source Category	2013											
	No. Respondents (1)	Responses/Respondent	Total Responses	Burden - Technical (hrs)	Burden - Managerial (hrs)	Burden - Clerical (hrs)	Burden - Legal (hrs)	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
Gas Processing, Processing	289	1	289	20,797	2,006	-	-	22,803	\$1,740,419	\$215,075	\$123,403	\$2,078,897
Gas Processing, Combustion Transmission Compressor Stations, Processing	105	1	105	1,243	1,243	-	-	2,486	\$232,155	\$0	\$0	\$232,155
Transmission Compressor Stations, Combustion	1145	1	1145	63,861	2,973	-	-	66,833	\$4,947,061	\$395,124	\$1,154,114	\$6,496,299
Storage, Processing	342	1	342	4,049	4,049	-	-	8,099	\$756,163	\$0	\$0	\$756,163
Storage, Combustion	133	1	133	8,933	1,053	-	-	9,986	\$761,188	\$26,111	\$147,068	\$934,367
Lng Terminals, Processing	82	1	82	971	971	-	-	1,942	\$181,302	\$0	\$0	\$181,302
Lng Terminals, Combustion	4	1	4	324	43	-	-	367	\$28,994	\$2,400	\$7,823	\$39,217
Onshore Production, Processing	981	1	981	61,455	8,147	-	-	69,602	\$5,689,456	\$56,225	\$0	\$5,745,682
Onshore Production, Combustion Local Distribution Companies, Processing	981	1	981	11,615	11,615	-	-	23,230	\$2,168,993	\$0	\$0	\$2,168,993
Local Distribution Companies, Combustion	143	1	143	15,955	1,121	-	-	17,076	\$1,242,278	\$20,916	\$228,463	\$1,491,657
Lng Storage, Processing (3)	33	1	33	1,827	221	-	-	2,049	\$160,775	\$14,032	\$25,866	\$200,674
Lng Storage, Combustion	31	1	31	367	367	-	-	734	\$68,541	\$0	\$0	\$68,541
Offshore Production, Processing (3)	58	1	58	1,176	312	-	-	1,488	\$126,454	\$0	\$0	\$126,454
Offshore Production, Combustion	44	1	44	521	521	-	-	1,042	\$97,284	\$0	\$0	\$97,284
<b>TOTAL</b>	<b>2786</b>	<b>1</b>	<b>4371</b>	<b>193,095</b>	<b>34,643</b>	<b>-</b>	<b>-</b>	<b>227,738</b>	<b>\$18,201,063</b>	<b>\$729,883</b>	<b>\$1,686,737</b>	<b>\$20,617,684</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).

(2) The number of respondents is not additive.

(3) Appendix B of the current ICR (OMB No. 2060-0651, ICR No. 2376-05) contained addition errors in the Years 2 and 3 burden hours calculations for Lng Storage, Processing and Offshore Production, Processing. These errors also impacted the annual average burden hours reported in Appendix B and in Table 6-1. Reported costs were unaffected.

**12. Summary of Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) by Activity and Year (cont.) (1)**

Source Category	2014											
	No. Respondents	Responses/Respondent	Total Responses	Burden - Technical (hrs)	Burden - Managerial (hrs)	Burden - Clerical (hrs)	Burden - Legal (hrs)	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
Gas Processing, Processing	289	1	289	20,797	2,006	-	-	22,803	\$1,740,419	\$215,075	\$123,403	\$2,078,897
Gas Processing, Combustion Transmission Compressor Stations, Processing	105	1	105	1,243	1,243	-	-	2,486	\$232,155	\$0	\$0	\$232,155
Transmission Compressor Stations, Combustion	1145	1	1145	63,861	2,973	-	-	66,833	\$4,947,061	\$395,124	\$1,154,114	\$6,496,299
Storage, Processing	342	1	342	4,049	4,049	-	-	8,099	\$756,163	\$0	\$0	\$756,163
Storage, Combustion	133	1	133	8,933	1,053	-	-	9,986	\$761,188	\$26,111	\$147,068	\$934,367
Lng Terminals, Processing	82	1	82	971	971	-	-	1,942	\$181,302	\$0	\$0	\$181,302
Lng Terminals, Combustion	4	1	4	324	43	-	-	367	\$28,994	\$2,400	\$7,823	\$39,217
Onshore Production, Processing	981	1	981	61,455	8,147	-	-	69,602	\$5,689,456	\$56,225	\$0	\$5,745,682
Onshore Production, Combustion Local Distribution Companies, Processing	981	1	981	11,615	11,615	-	-	23,230	\$2,168,993	\$0	\$0	\$2,168,993
Local Distribution Companies, Combustion	143	1	143	15,955	1,121	-	-	17,076	\$1,242,278	\$20,916	\$228,463	\$1,491,657
Lng Storage, Processing (3)	33	1	33	1,827	221	-	-	2,049	\$160,775	\$14,032	\$25,866	\$200,674
Lng Storage, Combustion	31	1	31	367	367	-	-	734	\$68,541	\$0	\$0	\$68,541
Offshore Production, Processing (3)	58	1	58	1,176	312	-	-	1,488	\$126,454	\$0	\$0	\$126,454
Offshore Production, Combustion	44	1	44	521	521	-	-	1,042	\$97,284	\$0	\$0	\$97,284
<b>TOTAL</b>	<b>2786</b>	<b>Varies</b>	<b>4371</b>	<b>193,095</b>	<b>34,643</b>	<b>-</b>	<b>-</b>	<b>227,738</b>	<b>\$18,201,063</b>	<b>\$729,883</b>	<b>\$1,686,737</b>	<b>\$20,617,684</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).  
(2) The number of respondents is not additive.  
(3) Appendix B of the current ICR (OMB No. 2060-0651, ICR No. 2376-05) contained addition errors in the Years 2 and 3 burden hours calculations for Lng Storage, Processing and Offshore Production, Processing. These errors also impacted the annual average burden hours reported in Appendix B and in Table 6-1. Reported costs were unaffected.

**12. Summary of Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) by Activity and Year (cont.) (1)**

		2015										
Source Category	No. Respondents	Responses/ Respondent	Total Responses	Burden - Technical (hrs)	Burden - Managerial (hrs)	Burden - Clerical (hrs)	Burden - Legal (hrs)	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
Gas Processing, Processing	289	1	289	20,797	2,006	-	-	22,803	\$1,740,419	\$215,075	\$123,403	\$2,078,897
Gas Processing, Combustion Transmission Compressor Stations, Processing	105	1	105	1,243	1,243	-	-	2,486	\$232,155	\$0	\$0	\$232,155
Transmission Compressor Stations, Combustion	1145	1	1145	63,861	2,973	-	-	66,833	\$4,947,061	\$395,124	\$1,154,114	\$6,496,299
Storage, Processing	342	1	342	4,049	4,049	-	-	8,099	\$756,163	\$0	\$0	\$756,163
Storage, Combustion	133	1	133	8,933	1,053	-	-	9,986	\$761,188	\$26,111	\$147,068	\$934,367
Lng Terminals, Processing	82	1	82	971	971	-	-	1,942	\$181,302	\$0	\$0	\$181,302
Lng Terminals, Combustion	4	1	4	324	43	-	-	367	\$28,994	\$2,400	\$7,823	\$39,217
Onshore Production, Processing	981	1	981	61,455	8,147	-	-	69,602	\$5,689,456	\$56,225	\$0	\$5,745,682
Onshore Production, Combustion Local Distribution Companies, Processing	981	1	981	11,615	11,615	-	-	23,230	\$2,168,993	\$0	\$0	\$2,168,993
Local Distribution Companies, Combustion	143	1	143	15,955	1,121	-	-	17,076	\$1,242,278	\$20,916	\$228,463	\$1,491,657
Lng Storage, Processing (3)	33	1	33	1,827	221	-	-	2,049	\$160,775	\$14,032	\$25,866	\$200,674
Lng Storage, Combustion	31	1	31	367	367	-	-	734	\$68,541	\$0	\$0	\$68,541
Offshore Production, Processing (3)	58	1	58	1,176	312	-	-	1,488	\$126,454	\$0	\$0	\$126,454
Offshore Production, Combustion	44	1	44	521	521	-	-	1,042	\$97,284	\$0	\$0	\$97,284
<b>TOTAL</b>	<b>2786</b>	<b>Varies</b>	<b>4371</b>	<b>193,095</b>	<b>34,643</b>	<b>-</b>	<b>-</b>	<b>227,738</b>	<b>\$18,201,063</b>	<b>\$729,883</b>	<b>\$1,686,737</b>	<b>\$20,617,684</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).  
(2) The number of respondents is not additive.  
(3) Appendix B of the current ICR (OMB No. 2060-0651, ICR No. 2376-05) contained addition errors in the Years 2 and 3 burden hours calculations for Lng Storage, Processing and Offshore Production, Processing. These errors also impacted the annual average burden hours reported in Appendix B and in Table 6-1. Reported costs were unaffected.

**12. Summary of Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) by Activity and Year (cont.) (1)**

Source Category	Annual Average - 3 year ICR Period											
	No. Respondents	Responses/ Respondent	Total Responses	Burden - Technical (hrs)	Burden - Managerial (hrs)	Burden - Clerical (hrs)	Burden - Legal (hrs)	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
Gas Processing, Processing	289	1	289	20,797	2,006	-	-	22,803	\$1,740,419	\$215,075	\$123,403	\$2,078,897
Gas Processing, Combustion Transmission Compressor Stations, Processing	105	1	105	1,243	1,243	-	-	2,486	\$232,155	\$0	\$0	\$232,155
Transmission Compressor Stations, Combustion	1145	1	1145	63,861	2,973	-	-	66,833	\$4,947,061	\$395,124	\$1,154,114	\$6,496,299
Storage, Processing	342	1	342	4,049	4,049	-	-	8,099	\$756,163	\$0	\$0	\$756,163
Storage, Combustion	133	1	133	8,933	1,053	-	-	9,986	\$761,188	\$26,111	\$147,068	\$934,367
Lng Terminals, Processing	82	1	82	971	971	-	-	1,942	\$181,302	\$0	\$0	\$181,302
Lng Terminals, Combustion	4	1	4	324	43	-	-	367	\$28,994	\$2,400	\$7,823	\$39,217
Onshore Production, Processing	981	1	981	61,455	8,147	-	-	69,602	\$5,689,456	\$56,225	\$0	\$5,745,682
Onshore Production, Combustion Local Distribution Companies, Processing	981	1	981	11,615	11,615	-	-	23,230	\$2,168,993	\$0	\$0	\$2,168,993
Local Distribution Companies, Combustion	143	1	143	15,955	1,121	-	-	17,076	\$1,242,278	\$20,916	\$228,463	\$1,491,657
Lng Storage, Processing (3)	33	1	33	1,827	221	-	-	2,049	\$160,775	\$14,032	\$25,866	\$200,674
Lng Storage, Combustion	31	1	31	367	367	-	-	734	\$68,541	\$0	\$0	\$68,541
Offshore Production, Processing (3)	58	1	58	1,176	312	-	-	1,488	\$126,454	\$0	\$0	\$126,454
Offshore Production, Combustion	44	1	44	521	521	-	-	1,042	\$97,284	\$0	\$0	\$97,284
<b>TOTAL</b>	<b>2786</b>	<b>Varies</b>	<b>4371</b>	<b>193,095</b>	<b>34,643</b>	<b>-</b>	<b>-</b>	<b>227,738</b>	<b>\$18,201,063</b>	<b>\$729,883</b>	<b>\$1,686,737</b>	<b>\$20,617,684</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).  
(2) The number of respondents is not additive.  
(3) Appendix B of the current ICR (OMB No. 2060-0651, ICR No. 2376-05) contained addition errors in the Years 2 and 3 burden hours calculations for Lng Storage, Processing and Offshore Production, Processing. These errors also impacted the annual average burden hours reported in Appendix B and in Table 6-1. Reported costs were unaffected.

### 13. Change in Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) (1)

#### Current Cost & Burden (OMB No. 2060-0651, ICR No. 2376.05)

##### First-Year Burden & Cost (1)

Source Category	No. Respondents	Responses/Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	115,744	\$8,084	\$231	\$123	\$8,439
Trans. Compression Stations	1,145	2	1,487	214,373	\$14,660	\$395	\$1,154	\$16,209
Storage	133	2	215	33,791	\$2,362	\$26	\$147	\$2,536
Lng Terminals	4	2	4	655	\$47	\$30	\$8	\$85
Onshore Production	981	2	1,962	237,222	\$16,798	\$56	\$0	\$16,854
Local Distribution Companies	143	2	143	26,059	\$1,712	\$21	\$229	\$1,961
Lng Storage	33	2	64	9,939	\$706	\$14	\$26	\$746
Offshore Production	58	2	102	6,821	\$491	\$0	\$0	\$491
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>644,604</b>	<b>\$44,860</b>	<b>\$774</b>	<b>\$1,687</b>	<b>\$47,320</b>

##### Subsequent-Year Burden & Cost (1)

Source Category	No. Respondents	Responses/Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	25,289	\$1,655	\$215	\$123	\$1,994
Trans. Compression Stations	1,145	2	1,487	74,934	\$4,752	\$395	\$1,154	\$6,301
Storage	133	2	215	11,928	\$782	\$26	\$147	\$955
Lng Terminals	4	2	4	367	\$25	\$2	\$8	\$36
Onshore Production	981	2	1,962	92,832	\$6,645	\$56	\$0	\$6,701
Local Distribution Companies	143	2	143	17,077	\$1,056	\$21	\$228	\$1,306
Lng Storage	33	2	64	23,537	\$191	\$14	\$26	\$231
Offshore Production	58	2	102	23,845	\$183	\$0	\$0	\$183
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>269,810</b>	<b>\$15,289</b>	<b>\$730</b>	<b>\$1,687</b>	<b>\$17,706</b>

##### Annual Average Burden & Cost (1)

Source Category	No. Respondents	Responses/Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	55,441	\$3,798	\$220	\$124	\$4,142
Trans. Compression Stations	1,145	2	1,487	121,405	\$8,054	\$395	\$1,154	\$9,603
Storage	133	2	215	19,218	\$1,310	\$26	\$147	\$1,482
Lng Terminals	4	2	4	463	\$33	\$12	\$8	\$52
Onshore Production	981	2	1,962	140,980	\$10,031	\$56	\$0	\$10,087
Local Distribution Companies	143	2	143	20,075	\$1,269	\$21	\$228	\$1,517
Lng Storage	33	2	64	19,004	\$362	\$14	\$26	\$402
Offshore Production	58	2	102	18,170	\$285	\$0	\$0	\$286
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>394,757</b>	<b>\$25,142</b>	<b>\$745</b>	<b>\$1,687</b>	<b>\$27,572</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).

### 13. Change in Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) (cont.)

#### Revised Burden & Cost

##### First-Year Burden & Cost (1)

Source Category	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	25,289	\$1,973	\$215	\$123	\$2,311
Trans. Compression Stations	1,145	2	1,487	74,932	\$5,703	\$395	\$1,154	\$7,252
Storage	133	2	215	11,928	\$942	\$26	\$147	\$1,116
Lng Terminals	4	2	4	367	\$29	\$2	\$8	\$39
Onshore Production	981	2	1,962	92,832	\$7,858	\$56	\$0	\$7,915
Local Distribution Companies	143	2	143	17,076	\$1,242	\$21	\$228	\$1,492
Lng Storage	33	2	64	2,783	\$229	\$14	\$26	\$269
Offshore Production	58	2	102	2,530	\$224	\$0	\$0	\$224
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>227,738</b>	<b>\$18,201</b>	<b>\$730</b>	<b>\$1,687</b>	<b>\$20,618</b>

##### Subsequent-Year Burden & Cost (1)

Source Category	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	25,289	\$1,973	\$215	\$123	\$2,311
Trans. Compression Stations	1,145	2	1,487	74,932	\$5,703	\$395	\$1,154	\$7,252
Storage	133	2	215	11,928	\$942	\$26	\$147	\$1,116
Lng Terminals	4	2	4	367	\$29	\$2	\$8	\$39
Onshore Production	981	2	1,962	92,832	\$7,858	\$56	\$0	\$7,915
Local Distribution Companies	143	2	143	17,076	\$1,242	\$21	\$228	\$1,492
Lng Storage	33	2	64	2,783	\$229	\$14	\$26	\$269
Offshore Production	58	2	102	2,530	\$224	\$0	\$0	\$224
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>227,738</b>	<b>\$18,201</b>	<b>\$730</b>	<b>\$1,687</b>	<b>\$20,618</b>

##### Annual Average Burden & Cost (1)

Source Category	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	289	2	394	25,289	\$1,972	\$215	\$124	\$2,311
Trans. Compression Stations	1,145	2	1,487	74,932	\$5,703	\$395	\$1,154	\$7,252
Storage	133	2	215	11,928	\$943	\$26	\$147	\$1,116
Lng Terminals	4	2	4	367	\$29	\$2	\$8	\$39
Onshore Production	981	2	1,962	92,832	\$7,860	\$56	\$0	\$7,915
Local Distribution Companies	143	2	143	17,076	\$1,236	\$21	\$228	\$1,492
Lng Storage	33	2	64	2,783	\$229	\$14	\$26	\$269
Offshore Production	58	2	102	2,530	\$223	\$0	\$0	\$224
<b>TOTAL</b>	<b>2,786</b>	<b>Varies</b>	<b>4,371</b>	<b>227,738</b>	<b>\$18,196</b>	<b>\$730</b>	<b>\$1,687</b>	<b>\$20,618</b>

(1) Does not include the burden or cost for provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration. This adds another 0.68 hours and \$44 per respondent (see Appendix L).

### 13. Change in Burden and Cost for Petroleum and Natural Gas Systems (Subpart W) (cont.)

#### Change in Burden and Cost

Source Category	No. Respondents	Responses/Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$K)	Capital Cost (\$K)	O&M Cost (\$K)	Total Cost (\$K)
Gas Processing	0	0	0	-30,152	-\$1,826	-\$5	\$0	-\$1,831
Trans. Compression Stations	0	0	0	-46,473	-\$2,351	\$0	\$0	-\$2,351
Storage	0	0	0	-7,290	-\$366	\$0	\$0	-\$366
Lng Terminals	0	0	0	-96	-\$4	-\$9	\$0	-\$13
Onshore Production	0	0	0	-48,148	-\$2,171	\$0	\$0	-\$2,173
Local Distribution Companies	0	0	0	-2,999	-\$33	\$0	\$0	-\$26
Lng Storage	0	0	0	-16,221	-\$133	\$0	\$0	-\$133
Offshore Production	0	0	0	-15,641	-\$62	\$0	\$0	-\$62
<b>TOTAL</b>	<b>0</b>		<b>0</b>	<b>-167,018</b>	<b>-\$6,945</b>	<b>-\$15</b>	<b>\$0</b>	<b>-\$6,955</b>

#### Reason for Changes in Burden and Cost

- Adjusted the labor hours and labor cost per facility to recognize the completion of the one-time activities that occurred in the first year of data collection.
- Corrected an error in the previous ICR, in which the burden associated with processing at LNG Storage Facilities and Off-
- Updated the labor rates used to calculate labor costs to use sector-specific rates (see Appendix F).