

Appendix H:
Burden and Cost for Magnesium Production,
Underground Coal Mines, Industrial
Wastewater Treatment, and Industrial Waste
Landfills (Subparts T, FF, II, and TT)

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

Appendix H-1. Detailed Burden and Cost for Magnesium Production, Underground Coal Mines, Industrial Wastewater Treatment, and Industrial Waste Landfills (Subparts T, FF, II, and TT)

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 (\$)
T - Magnesium Production	11	1	11	369	77.0	44.0	22.0	511.5	\$31,531	\$0	\$1,680	\$33,210
T - Mg Production, Recordkeeping & Reporting	11	1	11	357	44.6	44.6	-	446.3	\$25,952	\$0	\$0	\$25,952
T - MG Production, Combustion	11	1	11	1,096	-	-	-	1,095.6	\$64,772	\$0	\$0	\$64,772
II - Food Processing	63	1	63	415	51.9	51.9	-	519.3	\$30,202	\$43,025	\$178,477	\$251,704
II - Pulp & Paper	141	1	141	930	116.2	116.2	-	1,162.3	\$67,595	\$134,634	\$399,448	\$601,677
II - Ethanol Mills - Wastewater	4	1	4	26	3.3	3.3	-	33.0	\$1,918	\$1,611	\$11,332	\$14,860
II - Ethanol Mills - CH4	4	1	4	7	0.9	0.9	-	9.0	\$526	\$2,228	\$3,109	\$5,863
II - Petroleum Refineries	150	1	150	989	123.7	123.7	-	1,236.5	\$71,910	\$102,440	\$424,945	\$599,295
TT -Industrial Landfills	200	1	200	4,560	228.0	456.0	-	5,244.0	\$301,491	\$10,980	\$88,000	\$400,471
TT - Industrial Landfills - Recordkeeping & Reporting	200	1	200	6,491	811.4	811.4	-	8,113.9	\$471,855	\$0	\$0	\$471,855
FF - Coal - Monitoring Ventilation Air -- Quarterly Sampling	114	4	456	7,441	8,946.0	5,728.5	-	22,116.0	\$1,310,430	\$86,880	\$456,000	\$1,853,309
FF- Coal --Degasification Systems - CEMS	15	1	15	617	320.1	210.2	-	1,147.5	\$67,799	\$0	\$0	\$67,799
FF - Coal -Gob gas vent holes (degasification) for longwall mines -- Weekly Sampling	21	52	1092	7,445	2,532.2	1,614.6	-	11,592.0	\$686,340	\$133,368	\$0	\$819,708
FF - Recordkeeping & Reporting	114	1	114	3,700	462.5	462.5	-	4,624.9	\$268,957	\$0	\$0	\$268,957
TOTAL	683	Varies	2472	34,444	13,717.8	9,667.8	22.0	57,851.9	\$3,401,277	\$515,165	\$1,562,991	\$5,479,433

(1) Some respondents belong to multiple source categories, so the number of respondents is not additive.

Appendix H-2
Summary of Burden and Cost for Magnesium Production, Underground Coal Mines, Industrial Wastewater Treatment, and Industrial Waste Landfills (Subparts T, FF, II, and TT) by Subpart (1)

Source Category	Annual Average - 3 year ICR Period (Same in all years)							
	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
T - Magnesium Production	11	3	33	2,053.4	\$122,254	\$0	\$1,680	\$123,934
II - Industrial Wastewater	358	1	362	2,960.2	\$172,150	\$283,937	\$1,017,312	\$1,473,399
TT - Industrial Landfills	200	1	200	13,357.9	\$773,346	\$10,980	\$88,000	\$872,326
FF - Underground Mines	114	15	1677	39,480.4	\$2,333,526	\$220,248	\$456,000	\$3,009,774
TOTAL	683	Varies	2272	57,851.9	\$3,401,277	\$515,165	\$1,562,991	\$5,479,433

(1) Does not include the provision of information on parent companies, NAICS codes, and whether emissions are from cogeneration.

Appendix H-3

Change in Burden and Cost for Magnesium Production, Underground Coal Mines, Industrial Wastewater Treatment, and Industrial Waste Landfills (Subparts T, FF, II, and TT)

Current Inventory (OMB No. 2060-0647, ICR No. 2396.02)

Source Category	Annual Average - 3 year ICR Period (Same in all years)							
	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
T - Magnesium Production	11	3	33	2,053.4	\$114,014	\$0	\$1,680	\$115,694
II - Industrial Wastewater	358	1	362	2,960.2	\$160,528	\$283,937	\$1,017,312	\$1,461,777
TT - Industrial Landfills	200	1	400	15,197.9	\$820,174	\$10,980	\$88,000	\$919,154
FF - Underground Mines	114	15	1677	45,746.9	\$2,540,359	\$220,248	\$456,000	\$3,216,607
TOTAL	683	Varies	2472	65,958.4	\$3,635,075	\$515,165	\$1,562,991	\$5,713,231

Revised Inventory

Source Category	Annual Average - 3 year ICR Period (Same in all years)							
	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
T - Magnesium Production	11	3	33	2,053.4	\$122,254	\$0	\$1,680	\$123,934
II - Industrial Wastewater	358	1	362	2,960.2	\$172,150	\$283,937	\$1,017,312	\$1,473,399
TT - Industrial Landfills	200	1	400	13,357.9	\$773,346	\$10,980	\$88,000	\$872,326
FF - Underground Mines	114	15	1677	39,480.4	\$2,333,526	\$220,248	\$456,000	\$3,009,774
TOTAL	683	Varies	2272	57,851.9	\$3,401,277	\$515,165	\$1,562,991	\$5,479,433

Change in Burden

Source Category	Annual Average - 3 year ICR Period (Same in all years)							
	No. Respondents	Responses/ Respondent	Total Responses	Total Burden (hrs)	Total Labor Cost (\$)	Capital Cost (\$)	O&M Cost (\$)	Total Cost (\$)
T - Magnesium Production	0	0	0	-	\$8,240	\$0	\$0	\$8,240
II - Industrial Wastewater	0	0	0	-	\$11,622	\$0	\$0	\$11,622
TT - Industrial Landfills	0	0	0	(1,840.0)	-\$46,827	\$0	\$0	-\$46,827
FF - Underground Mines	0	0	0	(6,266.5)	-\$206,833	\$0	\$0	-\$206,833
TOTAL	0	Varies	0	(8,106.5)	-\$233,798	\$0	\$0	-\$233,798

Change in Burden

- 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 (2011) for subparts T & II.
- Adjusted labor rates to current year dollars.