

Table 1

**Initial Exposure Monitoring (§ 1910.1026(d)(2)(i) and (ii); Contract Cost for an IH Technician to Perform Initial Exposure Monitoring**

*This table calculates the contract cost for the employer to have an outside industrial hygiene technician perform initial exposure monitoring by collecting personal breathing-zone air samples to characterize full-shift exposure for each job classification in each work area during each shift. To determine the number of new employers that may need to conduct initial monitoring OSHA multiplied the number of existing plants by 5%.*

**Cost = (INITCONTIME \* CONTCOST \* #INIT \* %INITADD \* (%LEARN + %CONT) \* (#PLANTS\* 5%))**

**Variable**

- \* **INITCONTIME** = Time, in hours, for an outside contractor (industrial hygiene technician) to conduct the initial monitoring.
- \* **CONTCOST** = Cost per hour for an outside industrial hygiene contractor = \$112.44
- \* **# INIT** = Number of initial exposure measurements initial plus confirmation.
- \* **% INITADD** = Percent of plants that have not satisfied initial monitoring requirement
- \* **% LEARN** = Percent of plants that will develop in-house monitoring capability
- \* **% CONT** = Percent of plants that will continue to use an outside contractor for monitoring
- \* **# PLANTS** = Number of plants represented by the model output \* 5% (new employers)

24.93%

		INITCONTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
<b>Sector 1. Electroplating</b>										
Hard Chrome	Large	20	\$ 112.44	2	25%	( 0% + 100% )	*	883	44	= \$49,659
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	1,662	83	= \$56,075
Job Shop Chrome Plater	Large	12	\$ 112.44	2	25%	( 0% + 100% )	*	426	21	= \$14,356
	Small	12	\$ 112.44	2	25%	( 0 + 100% )	*	801	40	= \$27,012
Captive Shop Chrome Plater	Large	12	\$ 112.44	2	25%	( 0% + 100% )	*	580	29	= \$19,569
	Small	12	\$ 112.44	2	25%	( 0 + 100% )	*	1,092	55	= \$36,836
Job Shop Plater	Large	12	\$ 112.44	2	25%	( 0% + 100% )	*	426	21	= \$14,356
	Small	12	\$ 112.44	2	25%	( 0 + 100% )	*	801	40	= \$27,012
Captive Shop Plater	Large	12	\$ 112.44	2	25%	( 0% + 100% )	*	503	25	= \$16,954
	Small	12	\$ 112.44	2	25%	( 0 + 100% )	*	946	47	= \$31,913
Operator	Large	12	\$ 112.44	2	25%	( 0% + 100% )	*	883	44	= \$29,795
	Small	12	\$ 112.44	2	25%	( 0 + 100% )	*	1,662	83	= \$56,075
<b>Sector 2. Welding</b>										
<b>GENERAL INDUSTRY</b>										
SMAW	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	3,535	177	= \$107,329
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	3,962	198	= \$133,627
GMAW	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	2,593	130	= \$78,729
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	2,905	145	= \$98,004
TIG	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	786	39	= \$23,848
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	880	44	= \$29,691
SAW	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	314	16	= \$9,533
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	352	18	= \$11,863
Plasma Cutting	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	78	4	= \$2,376
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	88	4	= \$2,966

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
Plasma Welding	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	78	4	= \$2,376
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	88	4	= \$2,966
Resistance Welding	Large	12	\$ 112.44	2	25%	( 0% + 90% )	*	472	24	= \$14,314
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	529	26	= \$17,828
MARITIME										
SMAW	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	17	1	= \$880
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	10	0	= \$880
GMAW	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	24	1	= \$1,222
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	14	1	= \$1,232
TIG	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	6	0	= \$293
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	3	0	= \$264
FCAW	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	116	6	= \$5,867
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	66	3	= \$5,984
Plasma Cutting	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	4	0	= \$196
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	2	0	= \$176
Plasma Welding	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	2	0	= \$98
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	1	0	= \$88
Oxy-fuel Cutting	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	4	0	= \$196
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	2	0	= \$176
Air Carbon Arc Cutting	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	2	0	= \$98
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	1	0	= \$88
Electric Torch Cutting	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	0	0	= \$0
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	0	0	= \$0
Thermal Spray Tungsten Cutting	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	0	0	= \$0
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	0	0	= \$0
SAW	Large	12	\$ 112.44	2	75%	( 0% + 50% )	*	15	1	= \$782
	Small	12	\$ 112.44	2	75%	( 0% + 90% )	*	9	0	= \$792
CONSTRUCTION										
SMAW	Large	12	\$ 112.44	2	25%	( 0% + 95% )	*	201	10	= \$6,440
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	1,609	80	= \$54,266
Plasma Cutting	Large	12	\$ 112.44	2	25%	( 0% + 95% )	*	3	0	= \$93
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	21	1	= \$717
GMAW	Large	12	\$ 112.44	2	25%	( 0% + 95% )	*	41	2	= \$1,300
	Small	12	\$ 112.44	2	25%	( 0% + 100% )	*	322	16	= \$10,853
Brazing	State	12	\$ 112.44	2	25%	( 0% + 95% )	*	20	1	= \$650
	Local	12	\$ 112.44	2	25%	( 0% + 100% )	*	161	8	= \$5,443
Metallizing	State	12	\$ 112.44	2	25%	( 0% + 95% )	*	4	0	= \$124
	Local	12	\$ 112.44	2	25%	( 0% + 100% )	*	32	2	= \$1,076

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
<b>GOVERNMENT</b>										
SMAW	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	19	1	= \$619
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	590	30	= \$19,914
Plasma Cutting	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	0	0	= \$0
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	8	0	= \$261
GMAW	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	4	0	= \$124
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	118	6	= \$3,976
Brazing	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	2	0	= \$62
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	59	3	= \$1,988
Metallizing	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	1	0	= \$31
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	12	1	= \$391
<b>GENERAL INDUSTRY</b>										
<b>Sector 2. Mild Steel Welding</b>										
SMAW	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	4,740	237	= \$143,907
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	4,826	241	= \$162,797
GMAW	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	3,476	174	= \$105,539
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	3,539	177	= \$119,385
TIG	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	1,053	53	= \$31,973
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	1,073	54	= \$36,177
SAW	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	421	21	= \$12,789
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	429	21	= \$14,471
Plasma Cutting	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	105	5	= \$3,197
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	107	5	= \$3,618
Plasma Welding	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	105	5	= \$3,197
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	107	5	= \$3,618
Resistance Welding	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	632	32	= \$19,184
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	644	32	= \$21,706
<b>MARITIME</b>										
SMAW	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	37	2	= \$1,858
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	21	1	= \$1,936
GMAW	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	53	3	= \$2,689
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	30	1	= \$2,728
TIG	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	13	1	= \$636
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	7	0	= \$616
FCAW	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	249	12	= \$12,613
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	141	7	= \$12,848
Plasma Cutting	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	8	0	= \$391
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	5	0	= \$440

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
Plasma Welding	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	3	0	= \$147
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	2	0	= \$176
Oxy-fuel Cutting	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	8	0	= \$391
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	5	0	= \$440
Air Carbon Arc Cutting	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	3	0	= \$147
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	2	0	= \$176
Electric Torch Cutting	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	1	0	= \$49
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	0	0	= \$0
Thermal Spray Tungsten Cutting	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	1	0	= \$49
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	0	0	= \$0
SAW	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 50% )	*	33	2	= \$1,662
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	18	1	= \$1,672
<b>CONSTRUCTION</b>										
SMAW	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	301	15	= \$9,660
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	2,277	114	= \$76,819
Plasma Cutting	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	4	0	= \$124
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	30	1	= \$1,010
GMAW	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	60	3	= \$1,920
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	455	23	= \$15,351
Brazing	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	30	1	= \$960
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	228	11	= \$7,692
Metallizing	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 95% )	*	6	0	= \$186
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	45	2	= \$1,532
<b>SECTOR 3. PAINTING</b>										
General Industry (Aerospace)	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	49	2	= \$412
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 75% )	*	62	3	= \$1,558
General Industry (Autobody)	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	326	16	= \$2,750
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 75% )	*	1,436	72	= \$36,319
General Industry (Coil Coating)	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	100	5	= \$840
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 75% )	*	18	1	= \$458
Maritime	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 10% )	*	276	14	= \$929
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	476	24	= \$14,461
Construction	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	671	34	= \$5,657
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 50% )	*	3,566	178	= \$60,151
Government	State	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	12	1	= \$99
	Local	12	* \$ 112.44	* 2	* 25%	* ( 0% + 25% )	*	647	32	= \$5,453

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
<b>SECTOR 4. Producers of Chromates</b>										
ALL	Large	12	* \$ 112.44	* 2	* 100%	* ( 0% + 100% )	*	2	0	= \$258
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
<b>SECTOR 5. Chromate Pigment Procedures</b>										
ALL	Large	20	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	2	0	= \$101
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	1	0	= \$30
<b>SECTOR 6. CCA Producers</b>										
ALL	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	2	0	= \$80
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
<b>SECTOR 7. Chromium Catalyst Producers</b>										
ALL	Large	28	* \$ 112.44	* 2	* 25%	* ( 0% + 20% )	*	5	0	= \$75
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
<b>SECTOR 8. Paint and Coating Producers</b>										
ALL	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 75% )	*	80	4	= \$2,035
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 75% )	*	126	6	= \$3,198
<b>SECTOR 9. Printing Ink Producers</b>										
ALL	Large	12	* \$ 112.44	* 2	* 100%	* ( 0% + 90% )	*	2	0	= \$303
	Small	12	* \$ 112.44	* 2	* 100%	* ( 0% + 90% )	*	8	0	= \$1,011
<b>SECTOR 10. Plastic Colorant Producers and Users</b>										
ALL	Large	12	* \$ 112.44	* 2	* 25%	* ( 0 + 100% )	*	81	4	= \$2,748
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0 + 100% )	*	40	2	= \$1,344
<b>SECTOR 11. Plating Mixture Producers</b>										
ALL	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 80% )	*	6	0	= \$457
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 75% )	*	4	0	= \$286
<b>SECTOR 13. Chromium Metal Producers</b>										
ALL	Large	28	* \$ 112.44	* 2	* 100%	* ( 0% + 100% )	*	1	0	= \$286
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
<b>SECTOR 14. Iron and Steel Mills</b>										
Alloy Stainless Steel	Large	20	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	34	2	= \$5,137
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	11	1	= \$989
Carbon Steel	Large	20	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	102	5	= \$15,411
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	32	2	= \$2,908
<b>14.B Forging Industry</b>										
Reshaping	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	33	2	= \$3,024
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	31	2	= \$2,850
<b>SECTOR 15. Iron and Steel Foundries</b>										
ALL	Large	28	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	163	8	= \$11,526
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 90% )	*	118	6	= \$3,593
<b>SECTOR 17. Chromium Dye Producers</b>										
ALL	Large	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	3	0	= \$91
	Small	12	* \$ 112.44	* 2	* 25%	* ( 0% + 100% )	*	1	0	= \$30

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
	Small	12	* \$ 112.44	* 2	* 100%	* ( 0% + 100% )	*	5	0	= \$646
SECTOR 19. Chemical Distributors										
ALL	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	216	11	= \$21,823
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	1,627	81	= \$164,662
SECTOR 20. Textile Dyeing										
ALL	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	343	17	= \$31,284
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	697	35	= \$63,488
SECTOR 21. Colored Glass Producers										
General Industry	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	6	0	= \$573
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	20	1	= \$1,814
Fiber, Flat and Container Glass	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	90	5	= \$8,210
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	5	0	= \$477
SECTOR 22. Printing										
ALL	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	81	4	= \$7,410
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	325	16	= \$29,640
SECTOR 24. Chromium Catalyst Users										
Catalyst Users	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	179	9	= \$16,291
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 90% )	*	0	0	= \$0
Chromium Catalyst Service Companies	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	23	1	= \$2,099
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	4	0	= \$400
SECTOR 25. Refractory Brick Producers										
ALL	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	5	0	= \$491
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	0	0	= \$0
SECTOR 26. Woodworking										
General Industry	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	148	7	= \$14,975
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	79	4	= \$8,008
Maritime	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	36	2	= \$3,648
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	32	2	= \$3,214
Construction	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	1,162	58	= \$117,566
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	4,650	233	= \$470,581
Government	State	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	12	1	= \$1,182
	Local	12	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	42	2	= \$4,274
SECTOR 27. Solid Waste Incineration										
General Industry	Large	20	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	40	2	= \$6,045
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	48	2	= \$4,353
Government	State	12	* \$ 112.44	* 2	* 75%	* ( 0% + 25% )	*	0	0	= \$0
	Local	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	24	1	= \$2,176

Table 1

		INITCONTTIME	CONTCOST	# INIT	% INITADD	% LEARN	% CONT	# PLANTS	# PLANTS	Item 13 COSTS
SECTOR 30. Superalloy Producers and Users										
ALL	Large	28	* \$ 112.44	* 2	* 75%	* ( 0% + 100% )	*	19	1	= \$4,487
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 0% )	*	0	0	= \$0
SECTOR 31. Construction										
Industrial Rehabilitation	Large	12	* \$ 112.44	* 2	* 0%	* ( 0% + 100% )	*	51	3	= \$0
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 100% )	*	233	12	= \$0
	State	12	* \$ 112.44	* 2	* 100%	* ( 0% + 100% )	*	15	1	= \$1,993
	Local	12	* \$ 112.44	* 2	* 100%	* ( 0% + 100% )	*	88	4	= \$11,824
Hazardous Waste-site Work	Large	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	40	2	= \$3,662
	Small	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	170	8	= \$15,481
	State	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	1	0	= \$75
	Local	12	* \$ 112.44	* 2	* 75%	* ( 0% + 90% )	*	239	12	= \$21,731
Refractory Brick Restoration	Large	12	* \$ 112.44	* 2	* 0%	* ( 0% + 90% )	*	44	2	= \$0
	Small	12	* \$ 112.44	* 2	* 0%	* ( 0% + 90% )	*	175	9	= \$0
<b>Total</b>								<b>75,684</b>	<b>3,784</b>	<b>\$3,112,617</b>

Table 2

**Initial Exposure Monitoring (§ 1910.1026(d)(2)(i) and (ii); Contract Cost for a Laboratory to Conduct Analysis of Initial Exposure Monitoring Air Samples**

*This table calculates the contract cost for the employer to have a laboratory conduct analysis of air samples collected during initial exposure monitoring. To determine the number of new employers that may need to conduct initial monitoring OSHA multiplied the number of existing plants by 5%.*

**Cost = (SAMPCOST \* JOBCAT \* SHIFTS \* #SAMPS \* #INIT \* %INITADD) \* #PLANTS**  
**Variables**

- \* **SAMPCOST** = Variable cost per sample = \$77
- \* **JOBCAT** = Number of job categories (covering each work area).
- \* **SHIFTS** = Number of work shifts
- \* **#SAMPS** = Number of samples per exposure measurement
- \* **#INIT** = Number of initial exposure measurements required to be satisfied equals 2
- %INITADD** = Percent of plants that have not satisfied initial monitoring requirement
- \* **#PLANTS** = Number of plants represented by the model output \* 5%

		SAMPCOST	JOBCAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS
<b>Sector 1. Electroplating</b>										
Hard Chrome	Large	( \$77 * 7 * 2 * 3 * 2 * 25% ) *						883	44	= \$71,354
	Small	( \$77 * 7 * 1 * 3 * 2 * 25% ) *						1,662	83	= \$67,144
Job Shop Chrome Plater	Large	( \$77 * 1 * 2 * 3 * 2 * 25% ) *						426	21	= \$4,911
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						801	40	= \$4,621
Captive Shop Chrome Plater	Large	( \$77 * 1 * 2 * 3 * 2 * 25% ) *						580	29	= \$6,695
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						1,092	55	= \$6,301
Job Shop Plater	Large	( \$77 * 1 * 2 * 3 * 2 * 25% ) *						426	21	= \$4,911
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						801	40	= \$4,621
Captive Shop Plater	Large	( \$77 * 1 * 2 * 3 * 2 * 25% ) *						503	25	= \$5,800
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						946	47	= \$5,459
Operator	Large	( \$77 * 1 * 2 * 3 * 2 * 25% ) *						883	44	= \$10,193
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						1,662	83	= \$9,592
<b>Sector 2. Welding</b>										
<b>GENERAL INDUSTRY</b>										
SMAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *						3,535	177	= \$40,799
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						3,962	198	= \$22,858
GMAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *						2,593	130	= \$29,927
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						2,905	145	= \$16,764
TIG	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *						786	39	= \$9,065
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						880	44	= \$5,079
SAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *						314	16	= \$3,624
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *						352	18	= \$2,029



Table 2

		SAMPCOST	JOB	CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS
Plasma Cutting	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							78	4	= \$903
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							88	4	= \$507
Plasma Welding	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							78	4	= \$903
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							88	4	= \$507
Resistance Welding	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							472	24	= \$5,441
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							529	26	= \$3,050
<b>MARITIME</b>											
SMAW	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							17	1	= \$301
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							10	0	= \$112
GMAW	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							24	1	= \$418
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							14	1	= \$156
TIG	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							6	0	= \$100
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							3	0	= \$33
FCAW	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							116	6	= \$2,007
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							66	3	= \$758
Plasma Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							4	0	= \$67
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							2	0	= \$22
Plasma Welding	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							2	0	= \$33
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							1	0	= \$11
Oxy-fuel Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							4	0	= \$67
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							2	0	= \$22
Air Carbon Arc Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							2	0	= \$33
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							1	0	= \$11
Electric Torch Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							0	0	= \$0
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							0	0	= \$0
Thermal Spray Tungsten Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							0	0	= \$0
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							0	0	= \$0
SAW	Large	( \$77 * 1 * 3 * 1 * 2 * 75% ) *							15	1	= \$268
	Small	( \$77 * 1 * 2 * 1 * 2 * 75% ) *							9	0	= \$100
<b>CONSTRUCTION</b>											
SMAW	Large	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							201	10	= \$1,160
	Small	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							1,609	80	= \$3,094
Plasma Cutting	Large	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							3	0	= \$17
	Small	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							21	1	= \$41

Table 2

		SAMPCOST	JOB	CAT	SHIFTS	# SAMP	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS
GMAW	Large	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							41	2	= \$234
	Small	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							322	16	= \$619
Brazing	State	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							20	1	= \$117
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							161	8	= \$310
Metallizing	State	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							4	0	= \$22
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							32	2	= \$61
<b>GOVERNMENT</b>											
SMAW	State	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							19	1	= \$37
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							590	30	= \$1,135
Plasma Cutting	State	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							0	0	= \$0
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							8	0	= \$15
GMAW	State	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							4	0	= \$7
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							118	6	= \$227
Brazing	State	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							2	0	= \$4
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							59	3	= \$113
Metallizing	State	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							1	0	= \$2
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							12	1	= \$22
<b>GENERAL INDUSTRY</b>											
<b>Sector 2. Mild Steel Welding</b>											
SMAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							4,740	237	= \$54,703
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							4,826	241	= \$27,848
GMAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							3,476	174	= \$40,119
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							3,539	177	= \$20,422
TIG	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							1,053	53	= \$12,154
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							1,073	54	= \$6,188
SAW	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							421	21	= \$4,862
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							429	21	= \$2,475
Plasma Cutting	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							105	5	= \$1,215
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							107	5	= \$619
Plasma Welding	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							105	5	= \$1,215
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							107	5	= \$619
Resistance Welding	Large	( \$77 * 1 * 3 * 2 * 2 * 25% ) *							632	32	= \$7,292
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							644	32	= \$3,713

Table 2

		SAMPCOST	JOB/CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS									
MARITIME																			
SMAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	37	2	=	\$636
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	21	1	=	\$245
GMAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	53	3	=	\$920
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	30	1	=	\$346
TIG	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	13	1	=	\$217
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	7	0	=	\$78
FCAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	249	12	=	\$4,315
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	141	7	=	\$1,628
Plasma Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	8	0	=	\$134
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	5	0	=	\$56
Plasma Welding	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	3	0	=	\$50
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	2	0	=	\$22
Oxy-fuel Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	8	0	=	\$134
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	5	0	=	\$56
Air Carbon Arc Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	3	0	=	\$50
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	2	0	=	\$22
Electric Torch Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	1	0	=	\$17
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	0	0	=	\$0
Thermal Spray Tungsten Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	1	0	=	\$17
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	0	0	=	\$0
SAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	75%	)	*	33	2	=	\$569
	Small	(	\$77	*	1	*	2	*	1	*	2	*	75%	)	*	18	1	=	\$212
CONSTRUCTION																			
SMAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	25%	)	*	301	15	=	\$1,739
	Small	(	\$77	*	1	*	1	*	1	*	2	*	25%	)	*	2,277	114	=	\$4,380
Plasma Cutting	Large	(	\$77	*	1	*	3	*	1	*	2	*	25%	)	*	4	0	=	\$22
	Small	(	\$77	*	1	*	1	*	1	*	2	*	25%	)	*	30	1	=	\$58
GMAW	Large	(	\$77	*	1	*	3	*	1	*	2	*	25%	)	*	60	3	=	\$346
	Small	(	\$77	*	1	*	1	*	1	*	2	*	25%	)	*	455	23	=	\$875
Brazing	State	(	\$77	*	1	*	3	*	1	*	2	*	25%	)	*	30	1	=	\$173
	Local	(	\$77	*	1	*	1	*	1	*	2	*	25%	)	*	228	11	=	\$439

Table 2

		SAMPCOST	JOB	CAT	SHIFTS	# SAMP	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS
Metallizing	State	( \$77 * 1 * 3 * 1 * 2 * 25% ) *							6	0	= \$33
	Local	( \$77 * 1 * 1 * 1 * 2 * 25% ) *							45	2	= \$87
SECTOR 3. PAINTING - General Industry											
AEROSPACE	Large	( \$77 * 2 * 3 * 3 * 2 * 25% ) *							49	2	= \$1,693
	Small	( \$77 * 2 * 1 * 3 * 2 * 25% ) *							62	3	= \$711
General Industry (Autobody)	Large	( \$77 * 2 * 1 * 1 * 2 * 25% ) *							326	16	= \$1,254
	Small	( \$77 * 2 * 1 * 1 * 2 * 25% ) *							1,436	72	= \$5,522
General Industry (Coil Coating)	Large	( \$77 * 2 * 2 * 3 * 2 * 25% ) *							100	5	= \$2,300
	Small	( \$77 * 2 * 1 * 3 * 2 * 25% ) *							18	1	= \$209
Maritime	Large	( \$77 * 3 * 3 * 1 * 2 * 25% ) *							276	14	= \$4,769
	Small	( \$77 * 3 * 1 * 1 * 2 * 25% ) *							476	24	= \$2,749
Construction	Large	( \$77 * 3 * 3 * 1 * 2 * 25% ) *							671	34	= \$11,613
	Small	( \$77 * 3 * 1 * 1 * 2 * 25% ) *							3,566	178	= \$20,579
Government	State	( \$77 * 2 * 3 * 1 * 2 * 25% ) *							12	1	= \$135
	Local	( \$77 * 2 * 1 * 1 * 2 * 25% ) *							647	32	= \$2,487
SECTOR 4. Producers of Chromates											
ALL	Large	( \$77 * 4 * 3 * 3 * 2 * 100% ) *							2	0	= \$530
	Small	( \$77 * 0 * 1 * 3 * 2 * 0% ) *							0	0	= \$0
SECTOR 5. Chromate Pigment Procedures											
ALL	Large	( \$77 * 9 * 2 * 3 * 2 * 25% ) *							2	0	= \$187
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							1	0	= \$5
SECTOR 6. CCA Producers											
ALL	Large	( \$77 * 4 * 3 * 3 * 2 * 25% ) *							2	0	= \$164
	Small	( \$77 * 0 * 3 * 0 * 2 * 0% ) *							0	0	= \$0
SECTOR 7. Chromium Catalyst Producers											
ALL	Large	( \$77 * 14 * 3 * 3 * 2 * 25% ) *							5	0	= \$1,160
	Small	( \$77 * 0 * 1 * 3 * 2 * 0% ) *							0	0	= \$0
SECTOR 8. Paint and Coating Producers											
ALL	Large	( \$77 * 4 * 2 * 3 * 2 * 25% ) *							80	4	= \$3,713
	Small	( \$77 * 4 * 2 * 3 * 2 * 25% ) *							126	6	= \$5,834
SECTOR 9. Printing Ink Producers											
ALL	Large	( \$77 * 5 * 1 * 9 * 2 * 100% ) *							2	0	= \$865
	Small	( \$77 * 3 * 1 * 5 * 2 * 100% ) *							8	0	= \$961
SECTOR 10. Plastic Colorant Producers and Users											
ALL	Large	( \$77 * 4 * 3 * 3 * 2 * 25% ) *							81	4	= \$5,642
	Small	( \$77 * 1 * 1 * 3 * 2 * 25% ) *							40	2	= \$230
SECTOR 11. Plating Mixture Producers											

Table 2

		SAMPCOST	JOB/CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS
ALL	Large	( \$77 * 3 * 1 * 3 * 2 * 75% ) *						6	0	= \$293
	Small	( \$77 * 3 * 1 * 3 * 2 * 75% ) *						4	0	= \$195
SECTOR 13. Chromium Metal Producers										
ALL	Large	( \$77 * 16 * 3 * 3 * 2 * 100% ) *						1	0	= \$1,006
	Small	( \$77 * 0 * 1 * 1 * 2 * 0% ) *						0	0	= \$0
SECTOR 14. Iron and Steel Mills										
Alloy and Stainless Steel	Large	( \$77 * 8 * 3 * 3 * 2 * 75% ) *						34	2	= \$14,060
	Small	( \$77 * 4 * 1 * 3 * 2 * 75% ) *						11	1	= \$752
Carbon Steel	Large	( \$77 * 8 * 3 * 3 * 2 * 75% ) *						102	5	= \$42,179
	Small	( \$77 * 4 * 1 * 1 * 2 * 75% ) *						32	2	= \$737
14.B Forging Industry										
Reshaping	Large	( \$77 * 5 * 1 * 3 * 2 * 75% ) *						33	2	= \$2,874
	Small	( \$77 * 2 * 1 * 3 * 2 * 75% ) *						31	2	= \$1,083
SECTOR 15. Iron and Steel Foundries										
ALL	Large	( \$77 * 9 * 3 * 5 * 2 * 25% ) *						163	8	= \$42,249
	Small	( \$77 * 5 * 1 * 5 * 2 * 25% ) *						118	6	= \$5,690
SECTOR 17. Chromium Dye Producers										
ALL	Large	( \$77 * 7 * 1 * 21 * 2 * 25% ) *						3	0	= \$763
	Small	( \$77 * 5 * 1 * 7 * 2 * 25% ) *						1	0	= \$61
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	( \$77 * 0 * 1 * 3 * 2 * 0% ) *						0	0	= \$0
	Small	( \$77 * 2 * 1 * 3 * 2 * 100% ) *						5	0	= \$221
SECTOR 19. Chemical Distributors										
ALL	Large	( \$77 * 1 * 1 * 3 * 2 * 75% ) *						216	11	= \$3,733
	Small	( \$77 * 1 * 1 * 3 * 2 * 75% ) *						1,627	81	= \$28,167
SECTOR 20. Textile Dyeing										
ALL	Large	( \$77 * 3 * 3 * 3 * 2 * 75% ) *						343	17	= \$53,514
	Small	( \$77 * 2 * 1 * 2 * 2 * 75% ) *						697	35	= \$16,089
SECTOR 21. Colored Glass Producers										
General Industry	Large	( \$77 * 3 * 3 * 12 * 2 * 75% ) *						6	0	= \$3,919
	Small	( \$77 * 2 * 1 * 4 * 2 * 75% ) *						20	1	= \$919
Fiber, Flat and Container Glass	Large	( \$77 * 5 * 1 * 1 * 2 * 75% ) *						90	5	= \$2,601
	Small	( \$77 * 1 * 1 * 1 * 2 * 75% ) *						5	0	= \$30
SECTOR 22. Printing										
ALL	Large	( \$77 * 3 * 3 * 2 * 2 * 75% ) *						81	4	= \$8,450
	Small	( \$77 * 2 * 1 * 2 * 2 * 75% ) *						325	16	= \$7,511

Table 2

		SAMPCOST	JOB CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS									
SECTOR 24. Chromium Catalyst Users																			
Catalyst Users	Large	(	\$77	*	2	*	3	*	3	*	2	*	75%	)	*	179	9	=	\$18,578
	Small	(	\$77	*	0	*	1	*	3	*	2	*	0%	)	*	0	0	=	\$0
Chromium Catalyst Service Companies	Large	(	\$77	*	0	*	3	*	3	*	2	*	75%	)	*	23	1	=	\$0
	Small	(	\$77	*	0	*	1	*	3	*	2	*	75%	)	*	4	0	=	\$0
SECTOR 25. Refractory Brick Producers																			
ALL	Large	(	\$77	*	9	*	1	*	15	*	2	*	75%	)	*	5	0	=	\$4,202
	Small	(	\$77	*	0	*	1	*	0	*	2	*	75%	)	*	0	0	=	\$0
SECTOR 26. Woodworking																			
General Industry	Large	(	\$77	*	1	*	1	*	2	*	2	*	75%	)	*	148	7	=	\$1,708
	Small	(	\$77	*	1	*	1	*	2	*	2	*	75%	)	*	79	4	=	\$913
Maritime	Large	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	36	2	=	\$208
	Small	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	32	2	=	\$183
Construction	Large	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	1,162	58	=	\$6,704
	Small	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	4,650	233	=	\$26,832
Government	State	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	12	1	=	\$67
	Local	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	42	2	=	\$244
SECTOR 27. Solid Waste Incineration																			
General Industry	Large	(	\$77	*	6	*	3	*	15	*	2	*	75%	)	*	40	2	=	\$62,048
	Small	(	\$77	*	6	*	1	*	3	*	2	*	75%	)	*	48	2	=	\$4,964
Government	State	(	\$77	*	0	*	3	*	15	*	2	*	75%	)	*	0	0	=	\$0
	Local	(	\$77	*	6	*	1	*	3	*	2	*	75%	)	*	24	1	=	\$2,482
SECTOR 30. Superalloy Producers and Users																			
ALL	Large	(	\$77	*	12	*	3	*	3	*	2	*	75%	)	*	19	1	=	\$11,843
	Small	(	\$77	*	0	*	3	*	3	*	2	*	0%	)	*	0	0	=	\$0
SECTOR 31. Construction																			
Industrial Rehabilitation	Large	(	\$77	*	1	*	1	*	1	*	2	*	0%	)	*	51	3	=	\$0
	Small	(	\$77	*	1	*	1	*	1	*	2	*	0%	)	*	233	12	=	\$0
	State	(	\$77	*	1	*	1	*	1	*	2	*	100%	)	*	15	1	=	\$114
	Local	(	\$77	*	1	*	1	*	1	*	2	*	100%	)	*	88	4	=	\$674
Hazardous Waste-site Work	Large	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	40	2	=	\$232
	Small	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	170	8	=	\$981
	State	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	1	0	=	\$5
	Local	(	\$77	*	1	*	1	*	1	*	2	*	75%	)	*	239	11	=	\$1,269

Table 2

		SAMPCOST	JOB	CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS	Item 13 COSTS							
Refractory Brick Restoration	Large	( \$77	*	1	*	1	*	1	*	2	*	0%	)	*	44	2	=	\$0
	Small	( \$77	*	1	*	1	*	1	*	2	*	0%	)	*	175	9	=	\$0
		<b>Total</b>										<b>75,684</b>	<b>3,783</b>	<b>=</b>	<b>\$1,010,800</b>			

Table 3

Semi-Annual Exposure Monitoring (Paragraph (d)(2)(iii)); Employee Time and Cost to Conduct Semi-Annual Exposure Monitoring

This table calculates the burden hours and cost of employee time to conduct semi-annual exposure monitoring. When initial monitoring results equal or exceed the AL and are at or below the PEL, employers must continue to monitor employees at least every 6 months to ensure that exposures remain at or below the PEL.

COST = BURDEN HOURS \* NON SUPEWAGE

HOURS = (ADMINTIME \* NONSUPWAGE \* JOBAL \* SHIFTS \* #SAMPs \* 2 \* %NOTSEMI \* %ABOVEAL \* (%INHOUSE + %LEARN) \* #PLANTS)

Variables

- \* ADMINTIME = In-house administrative time (e.g., for pump calibration and report writing) per sample, in hours.
- \* NONSUPEWAGE = Non-supervisory wage rate. \$/hr.
- \* JOBAL = Number of job categories exposed at or above the AL
- \* SHIFTS = Number of work shifts.
- \* #SAMPs = Number of samples per exposure measurement
- \* 2 = # times per year (semi-annually)
- \* %NOTSEMI = Percent of plants not performing semi-annual monitoring requirements.
- \* %ABOVEAL = Percent of plants that have an employee in at least one job category at or above the AL.
- \* %INHOUSE = Percent of plants already with in-house monitoring capabilities.
- \* %LEARN = Percent of plants that will develop in-house monitoring capability.
- \* #PLANTS = Number of plants represented by the model input.

24.17%

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIFTS	#SAMPs	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
Sector 1. Electroplating																
Hard Chrome	Large	( 0.50 * \$	26.61	\$ 21.43	* 1	* 2	* 3	* 2	* 100%	* 49.00%	* ( 0% + 0% )	* 883	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 49.00%	* ( 0% + 0% )	* 1,662	) =	\$0	0	0
Job Shop Chrome Plater	Large	( 0.50 * \$	26.61	21.43	* 1	* 2	* 3	* 2	* 100%	* 11.00%	* ( 0% + 0% )	* 426	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 11.00%	* ( 0% + 0% )	* 801	) =	\$0	0	0
Captive Shop Chrome Plater	Large	( 0.50 * \$	26.61	21.43	* 1	* 2	* 3	* 2	* 100%	* 14.00%	* ( 0% + 0% )	* 580	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 14.00%	* ( 0% + 0% )	* 1,092	) =	\$0	0	0
Job Shop Plater	Large	( 0.50 * \$	26.61	21.43	* 1	* 2	* 3	* 2	* 100%	* 10.00%	* ( 0% + 0% )	* 426	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 10.00%	* ( 0% + 0% )	* 801	) =	\$0	0	0
Captive Shop Plater	Large	( 0.50 * \$	26.61	21.43	* 1	* 2	* 3	* 2	* 100%	* 13.00%	* ( 0% + 0% )	* 503	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 13.00%	* ( 0% + 0% )	* 946	) =	\$0	0	0
Operator	Large	( 0.50 * \$	26.61	21.43	* 1	* 2	* 3	* 2	* 100%	* 16.00%	* ( 0% + 0% )	* 883	) =	\$0	0	0
	Small	( 0.50 * \$	26.61	21.43	* 1	* 1	* 3	* 2	* 100%	* 16.00%	* ( 0% + 0% )	* 1,662	) =	\$0	0	0
Sector 2. Welding																
General Industry																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 1	* 3	* 2	* 2	* 100%	* 0.92%	* ( 10% + 0% )	* 3,535	) =	\$511	20	39
	Small	( 1.00 * \$	26.20	21.10	* 1	* 1	* 3	* 2	* 100%	* 0.92%	* ( 0% + 0% )	* 3,962	) =	\$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 1	* 3	* 2	* 2	* 100%	* 0.73%	* ( 10% + 0% )	* 2,593	) =	\$298	11	23
	Small	( 1.00 * \$	26.20	21.10	* 1	* 1	* 3	* 2	* 100%	* 0.73%	* ( 0% + 0% )	* 2,905	) =	\$0	0	0
TIG	Large	( 0.50 * \$	26.20	21.10	* 1	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 786	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 880	) =	\$0	0	0
SAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 314	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 352	) =	\$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 1	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 78	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 88	) =	\$0	0	0
Plasma Welding	Large	( 0.50 * \$	26.20	21.10	* 1	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 78	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 88	) =	\$0	0	0



Table 3

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIETS	#SAWIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
Resistance Welding	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 2 * 2 *				100% *	0.00% *	( 10% + 0% ) *		472	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 1 * 3 * 2 *				100% *	0.00% *	( 0% + 0% ) *		529	= \$0	0	0
<b>MARITIME</b>																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		17	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		10	= \$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		24	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		14	= \$0	0	0
TIG	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		6	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		3	= \$0	0	0
FCAW	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		116	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		66	= \$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		4	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		2	= \$0	0	0
Plasma Welding	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		2	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		1	= \$0	0	0
Oxy-fuel Cutting	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		4	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		2	= \$0	0	0
Air Carbon Arc Cutting	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		2	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		1	= \$0	0	0
Electric Torch Cutting	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		0	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		0	= \$0	0	0
Thermal Spray Tungsten Cutting	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		0	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		0	= \$0	0	0
SAW	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *		15	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *		9	= \$0	0	0
<b>CONSTRUCTION</b>																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		201	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		1,609	= \$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		3	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		21	= \$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		41	= \$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		322	= \$0	0	0
Brazing	State	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		20	= \$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		161	= \$0	0	0
Metallizing	State	( 0.50 * \$	26.20	21.10	* 1 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		4	= \$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		32	= \$0	0	0
<b>GOVERNMENT</b>																
SMAW	State	( 0.50 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *		19	= \$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *		590	= \$0	0	0

Table 3

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIFTS	#SAWIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
Plasma Cutting	State	( 0.50 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 5% + 0% )	* 0	) =	\$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 8	) =	\$0	0	0
GMAW	State	( 0.50 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 5% + 0% )	* 4	) =	\$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 118	) =	\$0	0	0
Brazing	State	( 0.50 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 5% + 0% )	* 2	) =	\$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 59	) =	\$0	0	0
Metallizing	State	( 0.50 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 5% + 0% )	* 1	) =	\$0	0	0
	Local	( 1.00 * \$	26.20	21.10	* 1	* 1	* 1	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 12	) =	\$0	0	0
<b>Sector 2. Mild Steel Welding</b>																
<b>GENERAL INDUSTRY</b>																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 4,740	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 4,826	) =	\$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 3,476	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 3,539	) =	\$0	0	0
TIG	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 1,053	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 1,073	) =	\$0	0	0
SAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 421	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 429	) =	\$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 105	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 107	) =	\$0	0	0
Plasma Welding	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 105	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 107	) =	\$0	0	0
Resistance Welding	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 632	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 644	) =	\$0	0	0
<b>MARITIME</b>																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 37	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 21	) =	\$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 53	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 30	) =	\$0	0	0
TIG	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 13	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 7	) =	\$0	0	0
FCAW	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 249	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 141	) =	\$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 8	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 5	) =	\$0	0	0
Plasma Welding	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 3	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 2	) =	\$0	0	0
Oxy-fuel Cutting	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 8	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 5	) =	\$0	0	0
Air Carbon Arc Cutting	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 3	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 2	) =	\$0	0	0
Electric Torch Cutting	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 1	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0	* 2	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 0	) =	\$0	0	0
Thermal Spray Tungsten	Large	( 0.50 * \$	26.20	21.10	* 0	* 3	* 1	* 2	* 100%	* 0.00%	* ( 50% + 0% )	* 1	) =	\$0	0	0

Table 3

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIFTS	#SAWIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
Cutting	Small	( 1.00 * \$	26.20	21.10	* 0 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *	0	) =	\$0	0	0
SAW	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 50% + 0% ) *	33	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 2 * 1 * 2 *				100% *	0.00% *	( 10% + 0% ) *	18	) =	\$0	0	0
<b>CONSTRUCTION</b>																
SMAW	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *	301	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *	2,277	) =	\$0	0	0
Plasma Cutting	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *	4	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *	30	) =	\$0	0	0
GMAW	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *	60	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *	455	) =	\$0	0	0
Brazing	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *	30	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *	228	) =	\$0	0	0
Metallizing	Large	( 0.50 * \$	26.20	21.10	* 0 * 3 * 1 * 2 *				100% *	0.00% *	( 5% + 0% ) *	6	) =	\$0	0	0
	Small	( 1.00 * \$	26.20	21.10	* 0 * 1 * 1 * 2 *				100% *	0.00% *	( 0% + 0% ) *	45	) =	\$0	0	0
<b>SECTOR 3. PAINTING</b>																
AEROSPACE	Large	( 0.50 * \$	33.07	26.63	* 1 * 3 * 3 * 2 *				100% *	28.00% *	( 75% + 0% ) *	49	) =	\$3,057	92	185
	Small	( 1.00 * \$	33.07	26.63	* 1 * 1 * 3 * 2 *				100% *	9.00% *	( 25% + 0% ) *	62	) =	\$275	8	8
General Industry (Autobody)	Large	( 0.50 * \$	33.07	26.63	* 1 * 1 * 1 * 2 *				100% *	5.00% *	( 75% + 0% ) *	326	) =	\$404	12	24.455626
	Small	( 1.00 * \$	33.07	26.63	* 1 * 1 * 1 * 2 *				100% *	5.00% *	( 25% + 0% ) *	1,436	) =	\$1,187	36	36
General Industry (Coil Coating)	Large	( 0.50 * \$	33.07	26.63	* 1 * 2 * 3 * 2 *				100% *	8.00% *	( 75% + 0% ) *	100	) =	\$1,186	36	72
	Small	( 1.00 * \$	33.07	26.63	* 1 * 1 * 3 * 2 *				100% *	8.00% *	( 25% + 0% ) *	18	) =	\$72	2	2
Maritime	Large	( 0.50 * \$	33.07	26.63	* 2 * 3 * 1 * 2 *				100% *	36.00% *	( 90% + 0% ) *	276	) =	\$17,710	536	1071
	Small	( 1.00 * \$	33.07	26.63	* 0 * 1 * 1 * 2 *				100% *	36.00% *	( 10% + 0% ) *	476	) =	\$0	0	0
Construction	Large	( 0.50 * \$	33.07	26.63	* 1 * 3 * 1 * 2 *				100% *	22.00% *	( 75% + 0% ) *	671	) =	\$10,980	332	664
	Small	( 1.00 * \$	33.07	26.63	* 1 * 1 * 1 * 2 *				100% *	22.00% *	( 50% + 0% ) *	3,566	) =	\$25,945	785	785
Government	State	( 0.50 * \$	33.07	26.63	* 1 * 3 * 1 * 2 *				100% *	12.00% *	( 75% + 0% ) *	12	) =	\$104	3	6
	Local	( 1.00 * \$	33.07	26.63	* 1 * 1 * 1 * 2 *				100% *	12.00% *	( 75% + 0% ) *	647	) =	\$3,849	116	116
<b>SECTOR 4. Producers of Chromates</b>																
ALL	Large	( 0.50 * \$	38.68	31.15	* 3 * 3 * 3 * 2 *				100% *	45.00% *	( 0% + 0% ) *	2	) =	\$0	0	0
	Small	( 1.00 * \$	38.68	31.15	* 0 * 1 * 3 * 2 *				100% *	0.00% *	( 0% + 0% ) *	0	) =	\$0	0	0
<b>SECTOR 5. Chromate Pigment Procedures</b>																
ALL	Large	( 0.50 * \$	37.70	30.36	* 5 * 2 * 3 * 2 *				100% *	71.00% *	( 0% + 0% ) *	2	) =	\$0	0	0
	Small	( 1.00 * \$	37.70	30.36	* 1 * 1 * 3 * 2 *				100% *	50.00% *	( 0% + 0% ) *	1	) =	\$0	0	0
<b>SECTOR 6. CCA Producers</b>																
ALL	Large	( 0.50 * \$	31.94	25.72	* 1 * 3 * 3 * 2 *				100% *	33.00% *	( 0% + 0% ) *	2	) =	\$0	0	0
	Small	( 1.00 * \$	31.94	25.72	* 0 * 3 * 0 * 2 *				100% *	0.00% *	( 0% + 0% ) *	0	) =	\$0	0	0

Table 3

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIFTS	#SAWIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
SECTOR 7. Chromium Catalyst Producers																
ALL	Large	( 0.50 * \$	38.68	31.15	* 6	* 3	* 3	* 2	* 100%	* 100.00%	* ( 80% + 0% )	* 5	) =	\$8,000	207	413.65003
	Small	( 1.00 * \$	38.68	31.15	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 0	) =	\$0	0	0
SECTOR 8. Paint and Coating Producers																
ALL	Large	( 0.50 * \$	28.81	23.20	* 1	* 2	* 3	* 2	* 100%	* 13.00%	* ( 25% + 0% )	* 80	) =	\$452	16	31
	Small	( 1.00 * \$	28.81	23.20	* 1	* 2	* 3	* 2	* 100%	* 13.00%	* ( 25% + 0% )	* 126	) =	\$1,420	49	49
SECTOR 9. Printing Ink Producers																
ALL	Large	( 0.50 * \$	28.86	23.24	* 3	* 1	* 9	* 2	* 100%	* 69.00%	* ( 10% + 0% )	* 2	) =	\$134	5	9
	Small	( 0.50 * \$	28.86	23.24	* 2	* 1	* 5	* 2	* 100%	* 69.00%	* ( 10% + 0% )	* 8	) =	\$166	6	11
SECTOR 10. Plastic Colorant Producers and Users																
ALL	Large	( 0.50 * \$	31.99	25.76	* 2	* 3	* 3	* 2	* 100%	* 51.00%	* ( 0 + 0 )	* 81	) =	\$0	0	0
	Small	( 1.00 * \$	31.99	25.76	* 2	* 1	* 3	* 2	* 100%	* 51.00%	* ( 0 + 0 )	* 40	) =	\$0	0	0
SECTOR 11. Plating Mixture Producers																
ALL	Large	( 0.50 * \$	28.71	23.12	* 1	* 1	* 3	* 2	* 100%	* 100.00%	* ( 20% + 0% )	* 6	) =	\$97	3	7
	Small	( 1.00 * \$	28.71	23.12	* 1	* 1	* 3	* 2	* 100%	* 100.00%	* ( 25% + 0% )	* 4	) =	\$162	6	5.643502
SECTOR 13. Chromium Metal Producers																
ALL	Large	( 0.5 * \$	38.80	31.25	* 2	* 3	* 3	* 2	* 100%	* 100.00%	* ( 0% + 0% )	* 1	) =	\$0	0	0
	Small	( 1 * \$	38.80	31.25	* 0	* 1	* 1	* 2	* 0%	* 0.00%	* ( 0% + 0% )	* 0	) =	\$0	0	0
SECTOR 14. Iron and Steel Mills																
Alloy and Stainless Steel	Large	( 0.50 * \$	38.80	31.25	* 3	* 3	* 3	* 2	* 100%	* 38.00%	* ( 10% + 0% )	* 34	) =	\$1,347	35	69
	Small	( 1.00 * \$	38.80	31.25	* 1	* 1	* 3	* 2	* 100%	* 38.00%	* ( 10% + 0% )	* 11	) =	\$96	2	2
Carbon Steel	Large	( 0.50 * \$	38.80	31.25	* 0	* 3	* 3	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 102	) =	\$0	0	0
	Small	( 1.00 * \$	38.80	31.25	* 0	* 1	* 1	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 32	) =	\$0	0	0
SECTOR 14B. Forging Industry																
Reshaping	Large	( 0.50 * \$	38.80	31.25	* 4	* 1	* 3	* 2	* 100%	* 63.00%	* ( 10% + 0% )	* 33	) =	\$974	25	79
	Small	( 1.00 * \$	38.80	31.25	* 2	* 1	* 3	* 2	* 100%	* 63.00%	* ( 10% + 0% )	* 31	) =	\$918	24	24
SECTOR 15. Iron and Steel Foundries																
ALL	Large	( 0.50 * \$	28.31	22.80	* 6	* 3	* 5	* 2	* 100%	* 100.00%	* ( 10% + 0% )	* 163	) =	\$41,459	1,464	2928.8717
	Small	( 1.00 * \$	28.31	22.80	* 5	* 1	* 5	* 2	* 100%	* 100.00%	* ( 10% + 0% )	* 118	) =	\$16,751	592	591.69126
SECTOR 17. Chromium Dye Producers																
ALL	Large	( 0.50 * \$	37.70	30.36	* 6	* 1	* #	* 2	* 100%	* 38.00%	* ( 0% + 0% )	* 3	) =	\$0	0	0
	Small	( 1.00 * \$	37.70	30.36	* 6	* 1	* 7	* 2	* 100%	* 38.00%	* ( 0% + 0% )	* 1	) =	\$0	0	0
SECTOR 18. Chromium Sulfate Producers																
ALL	Large	( 0.5 * \$	41.50	33.42	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 0	) =	\$0	0	0
	Small	( 0.5 * \$	41.50	33.42	* 1	* 1	* 3	* 2	* 100%	* 27.00%	* ( 0% + 0% )	* 5	) =	\$0	0	0
SECTOR 19. Chemical Distributors																
ALL	Large	( 0.50 * \$	29.92	24.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 216	) =	\$0	0	0
	Small	( 0.50 * \$	29.92	24.10	* 0	* 1	* 3	* 2	* 100%	* 0.00%	* ( 0% + 0% )	* 1,627	) =	\$0	0	0
SECTOR 20. Textile Dyeing																
ALL	Large	( 0.50 * \$	19.97	16.08	* 0	* 3	* 3	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 343	) =	\$0	0	0
	Small	( 0.50 * \$	19.97	16.08	* 0	* 1	* 2	* 2	* 100%	* 0.00%	* ( 10% + 0% )	* 697	) =	\$0	0	0

Table 3

		ADMTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIFTS	#SAVIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
<b>SECTOR 21. Colored Glass Producers</b>																
General Industry	Large	( 0.50 * \$	28.87	23.25	* 1	* 3	* #	* 2	* 100%	* 25.00%	*	( 10% + 0% ) *	6	) = \$163	6	11
	Small	( 1.00 * \$	28.87	23.25	* 0	* 1	* 4	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	20	) = \$0	0	0
Fiber, Flat, Container Glass	Large	( 0.50 * \$	28.87	23.25	* 3	* 1	* 1	* 2	* 100%	* 20.00%	*	( 10% + 0% ) *	90	) = \$156	5	12
	Small	( 1.00 * \$	28.87	23.25	* 0	* 1	* 1	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	5	) = \$0	0	0
<b>SECTOR 22. Printing</b>																
ALL	Large	( 0.5 * \$	20.85	16.79	* 0	* 3	* 2	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	81	) = \$0	0	0
	Small	( 0.5 * \$	20.85	16.79	* 0	* 1	* 2	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	325	) = \$0	0	0
<b>SECTOR 24. Chromium Catalyst Users</b>																
Catalyst Users	Large	( 0.5 * \$	32.51	26.18	* 2	* 3	* 3	* 2	* 100%	* 9.00%	*	( 10% + 0% ) *	179	) = \$942	29	58
	Small	( 1.0 * \$	32.51	26.18	* 0	* 1	* 3	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	0	) = \$0	0	0
Chromium Catalyst Service Companies	Large	( 0.5 * \$	32.51	26.18	* 0	* 3	* 3	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	23	) = \$0	0	0
	Small	( 1.0 * \$	32.51	26.18	* 0	* 1	* 3	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	4	) = \$0	0	0
<b>SECTOR 25. Refractory Brick Producers</b>																
ALL	Large	( 0.5 * \$	25.64	20.65	* 0	* 1	* #	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	5	) = \$0	0	0
	Small	( 0.5 * \$	25.64	20.65	* 0	* 1	* 0	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	0	) = \$0	0	0
<b>SECTOR 26. Woodworking</b>																
General Industry	Large	( 0.50 * \$	32.11	25.86	* 0	* 1	* 2	* 2	* 100%	* 0.00%	*	( 0% + 0% ) *	148	) = \$0	0	0
	Small	( 1 * \$	32.11	25.86	* 0	* 1	* 2	* 2	* 100%	* 0.00%	*	( 0% + 0% ) *	79	) = \$0	0	0
Maritime	Large	( 0.50 * \$	32.11	25.86	* 0	* 1	* 1	* 2	* 100%	* 0.00%	*	( 0% + 0% ) *	36	) = \$0	0	0
	Small	( 1 * \$	32.11	25.86	* 0	* 1	* 1	* 2	* 100%	* 0.00%	*	( 0% + 0% ) *	32	) = \$0	0	0
Construction	Large	( 0.50 * \$	32.11	25.86	* 1	* 1	* 1	* 2	* 100%	* 22.00%	*	( 0% + 0% ) *	1,162	) = \$0	0	0
	Small	( 1 * \$	32.11	25.86	* 1	* 1	* 1	* 2	* 100%	* 22.00%	*	( 0% + 0% ) *	4,650	) = \$0	0	0
Government	State	( 0.50 * \$	32.11	25.86	* 1	* 1	* 1	* 2	* 100%	* 22.00%	*	( 0% + 0% ) *	12	) = \$0	0	0
	Local	( 1 * \$	32.11	25.86	* 1	* 1	* 1	* 2	* 100%	* 22.00%	*	( 0% + 0% ) *	42	) = \$0	0	0
<b>SECTOR 27. Solid Waste Incineration</b>																
General Industry	Large	( 0.50 * \$	27.23	21.93	* 0	* 3	* #	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	40	) = \$0	0	0
	Small	( 1 * \$	27.23	21.93	* 0	* 1	* 3	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	48	) = \$0	0	0
Government	State	( 0.50 * \$	27.23	21.93	* 0	* 3	* #	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	0	) = \$0	0	0
	Local	( 1 * \$	27.23	21.93	* 0	* 1	* 3	* 2	* 100%	* 0.00%	*	( 10% + 0% ) *	24	) = \$0	0	0

Table 3

		ADMINTIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOBAL	SHIETS	#SAWIPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	Item 12 COST	TOTAL HOURS	RESPONSES
SECTOR 30. Superalloy Producers and Users																
ALL	Large	( 0.5 * \$ 27.93	22.49	* 0 * 3 * 3 * 2 * 100% * 0.00% * ( 0% + 0% ) * 19 ) = \$0 0 0												
	Small	( 1 * \$ 27.93	22.49	* 0 * 3 * 3 * 2 * 100% * 0.00% * ( 0% + 0% ) * 0 ) = \$0 0 0												
SECTOR 31. Construction Cement Workers																
Industrial Rehabilitation	Large	( 0.5 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 0% + 0% ) * 51 ) = \$0 0 0												
	Small	( 1.0 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 0% + 0% ) * 233 ) = \$0 0 0												
	State	( 0.5 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 0% + 0% ) * 15 ) = \$0 0 0												
	Local	( 1.0 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 0% + 0% ) * 88 ) = \$0 0 0												
Hazardous Waste-site Work	Large	( 0.5 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 10% + 0% ) * 40 ) = \$0 0 0												
	Small	( 1.0 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 10% + 0% ) * 170 ) = \$0 0 0												
	State	( 0.5 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 10% + 0% ) * 1 ) = \$0 0 0												
	Local	( 1.0 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 0.00% * ( 10% + 0% ) * 239 ) = \$0 0 0												
Refractory Brick Restoration	Large	( 0.5 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 60.00% * ( 10% + 0% ) * 44 ) = \$0 0 0												
	Small	( 1.0 * \$ 32.13	25.88	* 0 * 1 * 1 * 2 * 100% * 60.00% * ( 10% + 0% ) * 175 ) = \$0 0 0												
<b>Total</b>												<b>75,684</b>	<b>\$138,815</b>	<b>4,463</b>	<b>7,336</b>	

Table 4

**Semi-Annual Exposure Monitoring (Paragraph (d)(2)(iii)); Contract Cost for an IH Technician to Perform Semi-Annual Exposure Monitoring**

*This table calculates the contract cost for the employer to have an outside industrial hygiene technician perform semi-annual exposure monitoring.*

**Cost = (SEMICONTTIME \* CONTCOST \* SEMI-ANNUALLY \* %NOTSEMI \* %ABOVE AL \*%CONT) \* #PLANTS)**

**Variables:**

- \* **SEMICONTTIME** = Time, in hours, for an outside contractor (industrial hygiene technician) to conduct semi-annual monitoring
- \* **CONTCOST** = Cost per hour for an outside industrial hygiene contractor
- \* **2** = 2 times per year semi-annually
- \* **%NOTSEMI** = Percent of plants not performing semi-annual monitoring requirements
- \* **%ABOVEAL** = Percent of plants that have an employee in at least one job category at or above the AL
- \* **%CONT** = Percent of plants that will continue to use an outside contractor for monitoring
- \* **#PLANTS** = Number of plants represented by the model input

24.93%

		SEMICONTTIME	CONTCOST (2001)	CONTCOST	SEMI - ANNUALLY	% NOTSEMI	% ABOVEAL	% CONT	# PLANTS	Item 13 COST
<b>Sector 1. Electroplating</b>										
Hard Chrome	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 49.00% * 100% ) * 883	=	\$1,167,970				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 49.00% * 100% ) * 1,662	=	\$2,198,127				
Job Shop Chrome Plater	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 11.00% * 100% ) * 426	=	\$126,329				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 11.00% * 100% ) * 801	=	\$237,705				
Captive Shop Chrome Plater	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 14.00% * 100% ) * 580	=	\$219,176				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 14.00% * 100% ) * 1,092	=	\$412,567				
Job Shop Plater	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 10.00% * 100% ) * 426	=	\$114,845				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 10.00% * 100% ) * 801	=	\$216,096				
Captive Shop Plater	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 13.00% * 100% ) * 503	=	\$176,319				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 13.00% * 100% ) * 946	=	\$331,895				
Operator	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 16.00% * 100% ) * 883	=	\$381,378				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 16.00% * 100% ) * 1,662	=	\$717,756				
<b>Sector 2. Welding</b>										
<b>GENERAL INDUSTRY</b>										
SMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.92% * 90% ) * 3,535	=	\$78,994				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.92% * 100% ) * 3,962	=	\$98,350				
GMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.73% * 90% ) * 2,593	=	\$45,978				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.73% * 100% ) * 2,905	=	\$57,234				
TIG	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.00% * 90% ) * 786	=	\$0				
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100% * 0.00% * 100% ) * 880	=	\$0				

Table 4

		SEMI-CONTIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOTSEMI	% ABOVEAL	% CONT	# PLANTS	Item 13 COST
SAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 314	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 352	=	\$0	
Plasma Cutting	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 78	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 88	=	\$0	
Plasma Welding	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 78	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 88	=	\$0	
Resistance Welding	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 472	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 529	=	\$0	
<b>MARITIME</b>										
SMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 17	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 10	=	\$0	
GMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 24	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 14	=	\$0	
TIG	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 6	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 3	=	\$0	
FCAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 116	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 66	=	\$0	
Plasma Cutting	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 4	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 2	=	\$0	
Plasma Welding	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 2	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 1	=	\$0	
Oxy-fuel Cutting	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 4	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 2	=	\$0	
Air Carbon Arc Cutting	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 2	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 1	=	\$0	
Electric Torch Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 0	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 0	=	\$0	
Thermal Spray Tungsten Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 0	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 0	=	\$0	



Table 4

		SEMI-CONT	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOT SEMI	% ABOVE AVEAL	% CONT	# PLANTS	Item 13 COST
SAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 15	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 9	=	\$0	
<b>CONSTRUCTION</b>										
SMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 201	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 1,609	=	\$0	
Plasma Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 3	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 21	=	\$0	
GMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 41	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 322	=	\$0	
Brazing	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 20	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 161	=	\$0	
Metallizing	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 4	=	\$0	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 32	=	\$0	
<b>GOVERNMENT</b>										
SMAW	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 19	=	\$0	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 590	=	\$0	
Plasma Cutting	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 0	=	\$0	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 8	=	\$0	
GMAW	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 4	=	\$0	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 118	=	\$0	
Brazing	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 2	=	\$0	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 59	=	\$0	
Metallizing	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 1	=	\$0	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 12	=	\$0	
<b>GENERAL INDUSTRY</b>										
Sector 2. Mild Steel Welding										
SMAW	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 4,740	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 4,826	=	\$0	
GMAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 3,476	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 3,539	=	\$0	
TIG	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 1,053	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 1,073	=	\$0	
SAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 421	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 429	=	\$0	
Plasma Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 105	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 107	=	\$0	

Table 4

		SEMI/CONT TIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOT SEMI	% ABOVE AVEAL	% CONT	# PLANTS	Item 13 COST
Plasma Welding	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	105	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 100%	) *	107	= \$0
Resistance Welding	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	632	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 100%	) *	644	= \$0
<b>MARITIME</b>										
SMAW	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	37	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	21	= \$0
GMAW	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	53	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	30	= \$0
TIG	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	13	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	7	= \$0
FCAW	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	249	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	141	= \$0
Plasma Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	8	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	5	= \$0
Plasma Welding	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	3	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	2	= \$0
Oxy-fuel Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	8	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	5	= \$0
Air Carbon Arc Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	3	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	2	= \$0
Electric Torch Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	1	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	0	= \$0
Thermal Spray Tungsten Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 50%	) *	1	= \$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) *	0	= \$0

Table 4

		SEMI-CONTIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOTSEMI	% ABOVEAL	% CONT	# PLANTS	Item 13 COST
SAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 50%	) * 33	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 18	=	\$0	
<b>CONSTRUCTION</b>										
SMAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 301	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 2,277	=	\$0	
Plasma Cutting	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 4	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 30	=	\$0	
GMAW	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 60	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 455	=	\$0	
Brazing	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 30	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 228	=	\$0	
Metallizing	State	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 95%	) * 6	=	\$0	
	Local	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 45	=	\$0	
<b>SECTOR 3. PAINTING</b>										
AEROSPACE	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 28.00%	* 25%	) * 49	=	\$9,239	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 9.00%	* 75%	) * 62	=	\$11,219	
General Industry (Autobody)	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 5.00%	* 25%	) * 326	=	\$10,999	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 5.00%	* 75%	) * 1,436	=	\$145,277	
General Industry (Coil Coating)	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 8.00%	* 25%	) * 100	=	\$5,377	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 8.00%	* 75%	) * 18	=	\$2,933	
Maritime	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 36.00%	* 10%	) * 276	=	\$26,764	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 36.00%	* 90%	) * 476	=	\$416,474	
Construction	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 25%	) * 671	=	\$99,567	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 50%	) * 3,566	=	\$1,058,658	
Government	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 12.00%	* 25%	) * 12	=	\$946	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 12.00%	* 25%	) * 647	=	\$52,349	
<b>SECTOR 4. Producers of Chromates</b>										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 45.00%	* 100%	) * 2	=	\$2,325	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 0%	) * 0	=	\$0	

Table 4

		SEMI-CONTTIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOTSEMI	% ABOVEAVAL	% CONT	# PLANTS	Item 13 COST
SECTOR 5. Chromate Pigment Procedures										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 71.00%	* 100%	) * 2	=	\$3,448	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 50.00%	* 100%	) * 1	=	\$1,214	
SECTOR 6. CCA Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 33.00%	* 100%	) * 2	=	\$2,105	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 0%	) * 0	=	\$0	
SECTOR 7. Chromium Catalyst Producers										
ALL	Large	( 20 * \$90.00	\$ 112.44	* 2 * 100%	* 100%	* 20%	) * 5	=	\$4,306	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 0%	) * 0	=	\$0	
SECTOR 8. Paint and Coating Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 13.00%	* 75%	) * 80	=	\$21,162	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 13.00%	* 75%	) * 126	=	\$33,255	
SECTOR 9. Printing Ink Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 69.00%	* 90%	) * 2	=	\$4,186	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 69.00%	* 90%	) * 8	=	\$13,953	
SECTOR 10. Plastic Colorant Producers and Users										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 51.00%	* 100%	) * 81	=	\$112,133	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 51.00%	* 100%	) * 40	=	\$54,848	
SECTOR 11. Plating Mixture Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 100%	* 80%	) * 6	=	\$12,183	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 100%	* 75%	) * 4	=	\$7,614	
SECTOR 13. Chromium Metal Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 100%	* 100%	) * 1	=	\$2,451	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 0%	* 0.00%	* 0%	) * 0	=	\$0	
SECTOR 14. Iron and Steel Mills										
Alloy and Stainless Steel	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 38.00%	* 90%	) * 34	=	\$31,233	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 38.00%	* 90%	) * 11	=	\$10,018	
Carbon Steel	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 102	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 32	=	\$0	
SECTOR 14B. Forging Industry										
Reshaping	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 63.00%	* 90%	) * 33	=	\$50,803	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 63.00%	* 90%	) * 31	=	\$47,873	

Table 4

		SEMI CONT TIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOT SEMI	% ABOVE AVEAL	% CONT	# PLANTS	Item 13 COST
SECTOR 15. Iron and Steel Foundries										
ALL	Large	( 20 * \$90.00	\$ 112.44	* 2	* 100%	* 100%	* 90%	) * 163	=	\$658,630
	Small	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 100%	* 90%	) * 118	=	\$287,402
SECTOR 17. Chromium Dye Producers										
ALL	Large	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 38.00%	* 100%	) * 3	=	\$2,768
	Small	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 38.00%	* 100%	) * 1	=	\$923
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 0%	) * 0	=	\$0
	Small	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 27.00%	* 100%	) * 5	=	\$3,488
SECTOR 19. Chemical Distributors										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 100%	) * 216	=	\$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 100%	) * 1,627	=	\$0
SECTOR 20. Textile Dyeing										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 343	=	\$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 697	=	\$0
SECTOR 21. Colored Glass Producers										
General Industry	Large	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 25.00%	* 90%	) * 6	=	\$3,819
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 20	=	\$0
Fiber, Flat, Container Glass	Large	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 20.00%	* 90%	) * 90	=	\$43,786
	Small	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 5	=	\$0
SECTOR 22. Printing										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 81	=	\$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 325	=	\$0
SECTOR 24. Chromium Catalyst Users										
Catalyst Users	Large	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 9.00%	* 90%	) * 179	=	\$39,098
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 0	=	\$0
Chromium Catalyst Service Companies	Large	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 23	=	\$0
	Small	( 12 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 4	=	\$0
SECTOR 25. Refractory Brick Producers										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 5	=	\$0
	Small	( 0 * \$90.00	\$ 112.44	* 2	* 100%	* 0.00%	* 90%	) * 0	=	\$0

Table 4

		SEMI-CONTIME	CONT COST (2003)	CONT COST	SEMI - ANNUALLY	% NOTSEMI	% ABOVEAL	% CONT	# PLANTS	Item 13 COST
SECTOR 26. Woodworking										
General Industry	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 148	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 79	=	\$0	
Maritime	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 36	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 32	=	\$0	
Construction	Large	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 100%	) * 1,162	=	\$689,722	
	Small	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 100%	) * 4,650	=	\$2,760,742	
Government	State	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 100%	) * 12	=	\$6,936	
	Local	( 12 * \$90.00	\$ 112.44	* 2 * 100%	* 22.00%	* 100%	) * 42	=	\$25,077	
SECTOR 27. Solid Waste Incineration										
General Industry	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 40	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 48	=	\$0	
Government	State	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 25%	) * 0	=	\$0	
	Local	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 24	=	\$0	
SECTOR 30. Superalloy Producers and Users										
ALL	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 19	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 0%	) * 0	=	\$0	
SECTOR 31. Construction										
Industrial Rehabilitation	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 51	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 233	=	\$0	
	State	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 15	=	\$0	
	Local	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 100%	) * 88	=	\$0	
Hazardous Waste-site Work	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 40	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 170	=	\$0	
	State	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 0.00%	* 90%	) * 1	=	\$0	
Refractory Brick Restoration	Large	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 60.00%	* 90%	) * 44	=	\$0	
	Small	( 0 * \$90.00	\$ 112.44	* 2 * 100%	* 60.00%	* 90%	) * 175	=	\$0	
<b>Total</b>									<b>75,684</b>	<b>= \$13,358,026</b>

Table 5

**Semi-Annual Exposure Monitoring (Paragraph (d)(2)(iii)); Contract Cost for a Laboratory to Conduct Analysis of Semi-Annual Exposure Monitoring Air Samples**

This table calculates the contract cost for the employer to have a laboratory conduct analysis of air samples collected during semi-annual exposure monitoring.

**Cost = (SAMPCOST \* JOBAL \* SHIFTS \* #SAMPS \* 2 \* %NOTSEMI \* %ABOVEAL) \* #PLANTS**

**Variables:**

- \* **SAMPCOST** = Variable cost per sample = \$77
- \* **JOBAL** = Number of job categories exposed at or above the AL.
- \* **SHIFTS** = Number of work shifts.
- \* **#SAMPS** = Number of samples per exposure measurement.
- \* **2** = 2 times per year (semi-annual).
- \* **%NOTSEMI** = Percent of plants not performing semi-annual monitoring requirements.
- \* **%ABOVEAL** = Percent of plants that have an employee in at least one job category at or above the AL.
- \* **#PLANTS** = Number of plants represented by the model input.

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
<b>Sector 1. Electroplating</b>										
Hard Chrome	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 49%	) * 883	= \$399,583
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 49%	) * 1,662	= \$376,009
Job Shop Chrome Plater	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 11%	) * 426	= \$43,219
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 11%	) * 801	= \$40,662
Captive Shop Chrome Plater	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 14%	) * 580	= \$74,984
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 14%	) * 1,092	= \$70,573
Job Shop Plater	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 10%	) * 426	= \$39,290
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 10%	) * 801	= \$36,965
Captive Shop Plater	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 13%	) * 503	= \$60,322
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 13%	) * 946	= \$56,774
Operator	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 16%	) * 883	= \$130,476
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 16%	) * 1,662	= \$122,778
<b>Sector 2. Welding</b>		<b>General Industry</b>								
SMAW	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0.92%	) * 3,535	= \$30,028
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0.92%	) * 3,962	= \$16,824
GMAW	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0.73%	) * 2,593	= \$17,478
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0.73%	) * 2,905	= \$9,790
TIG	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0%	) * 786	= \$0
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0%	) * 880	= \$0

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
SAW	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 314	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 352	= \$0
Plasma Cutting	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0%	) * 78	= \$0
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0%	) * 88	= \$0
Plasma Welding	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0%	) * 78	= \$0
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0%	) * 88	= \$0
Resistance Welding	Large	( \$77	* 1	* 3	* 2	* 2	* 100%	* 0%	) * 472	= \$0
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 0%	) * 529	= \$0
<b>Maritime</b>										
SMAW	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 17	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 10	= \$0
GMAW	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 24	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 14	= \$0
TIG	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 6	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 3	= \$0
FCAW	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 116	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 66	= \$0
Plasma Cutting	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 4	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 2	= \$0
Plasma Welding	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 2	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 1	= \$0
Oxy-fuel Cutting	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 4	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 2	= \$0
Air Carbon Arc Cutting	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 2	= \$0
	Small	( \$77	* 1	* 2	* 1	* 2	* 100%	* 0%	) * 1	= \$0
Electric Torch Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 0	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 0	= \$0
Thermal Spray Tungsten Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 0	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 0	= \$0
SAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 15	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 9	= \$0



Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
<b>CONSTRUCTION</b>										
SMAW	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 201	= \$0
	Small	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 1,609	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 3	= \$0
	Small	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 21	= \$0
GMAW	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 41	= \$0
	Small	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 322	= \$0
Brazing	State	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 20	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 161	= \$0
Metallizing	State	( \$77	* 1	* 3	* 1	* 2	* 100%	* 0%	) * 4	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 32	= \$0
<b>GOVERNMENT</b>										
SMAW	State	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 19	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 590	= \$0
Plasma Cutting	State	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 0	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 8	= \$0
GMAW	State	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 4	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 118	= \$0
Brazing	State	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 2	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 59	= \$0
Metallizing	State	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 1	= \$0
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 0%	) * 12	= \$0
<b>Sector 2. Mild Steel Welding GENERAL INDUSTRY</b>										
SMAW	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 4,740	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 4,826	= \$0
GMAW	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 3,476	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 3,539	= \$0
TIG	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 1,053	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100	* 0%	) * 1,073	= \$0
SAW	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 421	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 429	= \$0

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
Plasma Cutting	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 105	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 107	= \$0
Plasma Welding	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 105	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 107	= \$0
Resistance Welding	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 632	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 644	= \$0
<b>Maritime</b>										
SMAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 37	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 21	= \$0
GMAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 53	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 30	= \$0
TIG	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 13	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 7	= \$0
FCAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 249	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 141	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 8	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 5	= \$0
Plasma Welding	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 3	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 2	= \$0
Oxy-fuel Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 8	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 5	= \$0
Air Carbon Arc Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 3	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 2	= \$0
Electric Torch Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 1	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 0	= \$0
Thermal Spray Tungsten Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 1	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 0	= \$0
SAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 33	= \$0
	Small	( \$77	* 0	* 2	* 1	* 2	* 100%	* 0%	) * 18	= \$0

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
<b>CONSTRUCTION</b>										
SMAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 301	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 2,277	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 4	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 30	= \$0
GMAW	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 60	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 455	= \$0
Brazing	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 30	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 228	= \$0
Metallizing	Large	( \$77	* 0	* 3	* 1	* 2	* 100%	* 0%	) * 6	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 45	= \$0
<b>SECTOR 3. PAINTING</b>										
AEROSPACE	Large	( \$77	* 1	* 3	* 3	* 2	* 100%	* 28%	) * 49	= \$18,965
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 9%	) * 62	= \$2,559
General Industry (Autobody)	Large	( \$77	* 1	* 1	* 1	* 2	* 100%	* 5%	) * 326	= \$2,509
	Small	( \$77	* 1	* 1	* 1	* 2	* 100%	* 5%	) * 1,436	= \$11,045
General Industry (Coil Coating)	Large	( \$77	* 1	* 2	* 3	* 2	* 100%	* 8%	) * 100	= \$7,359
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 8%	) * 18	= \$669
Maritime	Large	( \$77	* 2	* 3	* 1	* 2	* 100%	* 36%	) * 276	= \$91,566
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 36%	) * 476	= \$0
Construction	Large	( \$77	* 1	* 3	* 1	* 2	* 100%	* 22%	) * 671	= \$68,128
	Small	( \$77	* 1	* 1	* 1	* 2	* 100%	* 22%	) * 3,566	= \$120,728
Government	State	( \$77	* 1	* 3	* 1	* 2	* 100%	* 12%	) * 12	= \$647
	Local	( \$77	* 1	* 1	* 1	* 2	* 100%	* 12%	) * 647	= \$11,940
<b>SECTOR 4. Producers of Chromates</b>										
ALL	Large	( \$77	* 3	* 3	* 3	* 2	* 100%	* 45%	) * 2	= \$3,580
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 0	= \$0
<b>SECTOR 5. Chromate Pigment Procedures</b>										
ALL	Large	( \$77	* 5	* 2	* 3	* 2	* 100%	* 71%	) * 2	= \$5,898
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 50%	) * 1	= \$208

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST										
<b>SECTOR 6. CCA Producers</b>																				
ALL	Large	(	\$77	*	1	*	3	*	3	*	2	*	100%	*	33%	)	*	2	=	\$1,080
	Small	(	\$77	*	0	*	3	*	0	*	2	*	100%	*	0%	)	*	0	=	\$0
<b>SECTOR 7. Chromium Catalyst Producers</b>																				
ALL	Large	(	\$77	*	6	*	3	*	3	*	2	*	100%	*	100%	)	*	5	=	\$39,780
	Small	(	\$77	*	0	*	1	*	3	*	2	*	100%	*	0%	)	*	0	=	\$0
<b>SECTOR 8. Paint and Coating Producers</b>																				
ALL	Large	(	\$77	*	1	*	2	*	3	*	2	*	100%	*	13%	)	*	80	=	\$9,653
	Small	(	\$77	*	1	*	2	*	3	*	2	*	100%	*	13%	)	*	126	=	\$15,169
<b>SECTOR 9. Printing Ink Producers</b>																				
ALL	Large	(	\$77	*	3	*	1	*	9	*	2	*	100%	*	69%	)	*	2	=	\$7,161
	Small	(	\$77	*	2	*	1	*	5	*	2	*	100%	*	69%	)	*	8	=	\$8,840
<b>SECTOR 10. Plastic Colorant Producers and Users</b>																				
ALL	Large	(	\$77	*	2	*	3	*	3	*	2	*	100%	*	51%	)	*	81	=	\$115,088
	Small	(	\$77	*	2	*	1	*	3	*	2	*	100%	*	51%	)	*	40	=	\$18,764
<b>SECTOR 11. Plating Mixture Producers</b>																				
ALL	Large	(	\$77	*	1	*	1	*	3	*	2	*	100%	*	100%	)	*	6	=	\$2,605
	Small	(	\$77	*	1	*	1	*	3	*	2	*	100%	*	100%	)	*	4	=	\$1,737
<b>SECTOR 13. Chromium Metal Producers</b>																				
ALL	Large	(	\$77	*	2	*	3	*	3	*	2	*	100%	*	100%	)	*	1	=	\$2,515
	Small	(	\$77	*	0	*	1	*	1	*	2	*	0%	*	0%	)	*	0	=	\$0
<b>SECTOR 14. Iron and Steel Mills</b>																				
Alloy Stainless Steel	Large	(	\$77	*	3	*	3	*	3	*	2	*	100%	*	38%	)	*	34	=	\$53,426
	Small	(	\$77	*	1	*	1	*	3	*	2	*	100%	*	38%	)	*	11	=	\$1,904
Carbon Steel	Large	(	\$77	*	0	*	3	*	3	*	2	*	100%	*	0%	)	*	102	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	2	*	100%	*	0%	)	*	32	=	\$0
<b>14B. Forging Industry</b>																				
Forging Industry	Large	(	\$77	*	4	*	1	*	3	*	2	*	100%	*	63%	)	*	33	=	\$38,624
	Small	(	\$77	*	2	*	1	*	3	*	2	*	100%	*	63%	)	*	31	=	\$18,198
<b>SECTOR 15. Iron and Steel Foundries</b>																				
ALL	Large	(	\$77	*	6	*	3	*	5	*	2	*	100%	*	100%	)	*	163	=	\$2,253,289
	Small	(	\$77	*	5	*	1	*	5	*	2	*	100%	*	100%	)	*	118	=	\$455,210

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
<b>SECTOR 17. Chromium Dye Producers</b>										
ALL	Large	( \$77	* 6	* 1	* 21	* 2	* 100%	* 38%	) * 3	= \$19,886
	Small	( \$77	* 6	* 1	* 7	* 2	* 100%	* 38%	) * 1	= \$2,210
<b>SECTOR 18. Chromium Sulfate Producers</b>										
ALL	Large	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 0	= \$0
	Small	( \$77	* 1	* 1	* 3	* 2	* 100%	* 27%	) * 5	= \$597
<b>SECTOR 19. Chemical Distributors</b>										
ALL	Large	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 216	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 1,627	= \$0
<b>SECTOR 20. Textile Dyeing</b>										
ALL	Large	( \$77	* 0	* 3	* 3	* 2	* 100%	* 0%	) * 343	= \$0
	Small	( \$77	* 0	* 1	* 2	* 2	* 100%	* 0%	) * 697	= \$0
<b>SECTOR 21. Colored Glass Producers</b>										
General Industry	Large	( \$77	* 1	* 3	* 12	* 2	* 100%	* 25%	) * 6	= \$8,709
	Small	( \$77	* 0	* 1	* 4	* 2	* 100%	* 0%	) * 20	= \$0
Fiber, Flat, and Container Glass	Large	( \$77	* 3	* 1	* 1	* 2	* 100%	* 20%	) * 90	= \$8,322
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 5	= \$0
<b>SECTOR 22. Printing</b>										
ALL	Large	( \$77	* 0	* 3	* 2	* 2	* 100%	* 0%	) * 81	= \$0
	Small	( \$77	* 0	* 1	* 2	* 2	* 100%	* 0%	) * 325	= \$0
<b>SECTOR 24. Chromium Catalyst Users</b>										
Catalyst User	Large	( \$77	* 2	* 3	* 3	* 2	* 100%	* 9%	) * 179	= \$44,587
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 0	= \$0
Chromium Catalyst Service Companies	Large	( \$77	* 0	* 3	* 3	* 2	* 100%	* 0%	) * 23	= \$0
	Small	( \$77	* 0	* 1	* 3	* 2	* 100%	* 0%	) * 4	= \$0
<b>SECTOR 25. Refractory Brick Producers</b>										
ALL	Large	( \$77	* 0	* 1	* 15	* 2	* 100%	* 0%	) * 5	= \$0
	Small	( \$77	* 0	* 1	* 0	* 2	* 100%	* 0%	) * 0	= \$0
<b>SECTOR 26. Woodworking</b>										
General Industry	Large	( \$77	* 0	* 1	* 2	* 2	* 100%	* 0%	) * 148	= \$0
	Small	( \$77	* 0	* 1	* 2	* 2	* 100%	* 0%	) * 79	= \$0
Maritime	Large	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 36	= \$0
	Small	( \$77	* 0	* 1	* 1	* 2	* 100%	* 0%	) * 32	= \$0

Table 5

		SAMPCOST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	Item 13 COST
Construction	Large	( \$77 * 1 * 1 * 1 * 2 * 100% * 22% ) *							1,162 =	\$39,328
	Small	( \$77 * 1 * 1 * 1 * 2 * 100% * 22% ) *							4,650 =	\$157,416
Government	State	( \$77 * 1 * 1 * 1 * 2 * 100% * 22% ) *							12 =	\$395
	Local	( \$77 * 1 * 1 * 1 * 2 * 100% * 22% ) *							42 =	\$1,430
SECTOR 27. Solid Waste Incineration										2
General Industry	Large	( \$77 * 0 * 3 * 15 * 2 * 100% * 0% ) *							40 =	\$0
	Small	( \$77 * 0 * 1 * 3 * 2 * 100% * 0% ) *							48 =	\$0
Government	State	( \$77 * 0 * 3 * 15 * 2 * 100% * 0% ) *							0 =	\$0
	Local	( \$77 * 0 * 1 * 3 * 2 * 100% * 0% ) *							24 =	\$0
SECTOR 30. Superalloy Producers and Users										2
ALL	Large	( \$77 * 0 * 3 * 3 * 2 * 100% * 0% ) *							19 =	\$0
	Small	( \$77 * 0 * 3 * 3 * 2 * 100% * 0% ) *							0 =	\$0
SECTOR 31. Construction										
Industrial Rehabilitation	Large	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							51 =	\$0
	Small	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							233 =	\$0
	State	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							15 =	\$0
	Local	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							88 =	\$0
Hazardous Waste-site Work	Large	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							40 =	\$0
	Small	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							170 =	\$0
	State	( \$77 * 0 * 1 * 1 * 2 * 100% * 0% ) *							1 =	\$0
Refractory Brick Restoration	Large	( \$77 * 0 * 1 * 1 * 2 * 100% * 60% ) *							44 =	\$0
	Small	( \$77 * 0 * 1 * 1 * 2 * 100% * 60% ) *							175 =	\$0
<b>TOTAL</b>									<b>75,684</b>	<b>\$5,197,478</b>

Table 6

**Quarterly Exposure Monitoring (Paragraph (d)(2)(iv)); Employee Time and Cost to Conduct Quarterly Exposure Monitoring**

When initial monitoring results exceed the PEL, periodic monitoring every three months allows the employer to maintain an accurate profile of employee exposures. If the employer installs or upgrades controls, quarterly monitoring will demonstrate whether the controls are working properly.

$$\text{HOURS} = (\text{ADMINTIME} * \text{JOBPEL} * \text{SHIFTS} * \text{\#SAMPS} * 4 * \% \text{NOTQUART} * \% \text{ABOVEPEL} * (\% \text{INHOUSE} + \% \text{LEARN})) * \text{\#PLANTS}$$

$$\text{COST} = (\text{NONSUPEWAGE} * \text{BURDEN HOURS})$$

**Variable**

- \*ADMINTIME = In-house administrative time
- \* NONSUPEWAGE = Non-supervisory wage rate, \$/hr
- \* JOBPEL = Number of job categories exposed above the PEL
- \* SHIFTS = Number of work shifts.
- \* #SAMPS = Number of samples per exposure measurement.
- \*4 = Four times per year (Quarterly).
- \*%NOTQUART = Percent of plants not performing quarterly monitoring requirements.
- \* %ABOVEPEL = Percent of plants that have an employee in at least one job category above the PEL.
- \*%INHOUSE = Percent of plants already with in-house monitoring capabilities.
- \*%LEARN = Percent of plants that will develop in house monitoring capability.
- \* #PLANTS = Number of plants represented by the model output.

24.17%

		ADMINTIME	NONSUPEWAGE	JOBPEL	SHIFTS	#SAMPS	%NOTQUART	%ABOVEPEL	%INHOUSE	%LEARN	#PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
<b>Sector 1. Electroplating</b>														
Hard Chrome	Large	0.50	\$ 26.61	0	2	3	4	0%	0%	0%	883	\$0	0	0
	Small	0.50	\$ 26.61	0	1	3	4	100%	0%	0%	1,662	\$0	0	0
Job Shop Chrome Plater	Large	0.50	\$ 26.61	0	2	3	4	100%	0%	0%	426	\$0	0	0
	Small	0.50	\$ 26.61	0	1	3	4	100%	0%	0%	801	\$0	0	0
Captive Shop Chrome Plater	Large	0.50	\$ 26.61	0	2	3	4	100%	0%	0%	580	\$0	0	0
	Small	0.50	\$ 26.61	0	1	3	4	100%	0%	0%	1,092	\$0	0	0
Job Shop Plater	Large	0.50	\$ 26.61	0	2	3	4	100%	0%	0%	426	\$0	0	0
	Small	0.50	\$ 26.61	0	1	3	4	100%	0%	0%	801	\$0	0	0
Captive Shop Plater	Large	0.50	\$ 26.61	0	2	3	4	100%	0%	0%	503	\$0	0	0
	Small	0.50	\$ 26.61	0	1	3	4	100%	0%	0%	946	\$0	0	0
Operator	Large	0.50	\$ 26.61	0	2	3	4	100%	0%	0%	883	\$0	0	0
	Small	0.50	\$ 26.61	1	1	3	4	100%	0%	0%	1,662	\$0	0	0
<b>Sector 2. Welding</b>														
<b>GENERAL INDUSTRY</b>														
SMAW	Large	0.50	\$ 26.20	1	3	2	4	100%	4.85%	10%	3,535	\$141,238	5,391	412
	Small	1.00	\$ 26.20	1	1	3	4	100%	4.84%	0%	3,962	\$0	0	0
GMAW	Large	0.50	\$ 26.20	1	3	2	4	100%	0.37%	10%	2,593	\$790,373	30,167	2,180
	Small	1.00	\$ 26.20	1	1	3	4	100%	0.38%	0%	2,905	\$0	0	0
TIG	Large	0.50	\$ 26.20	1	3	2	4	100%	0%	10%	786	\$0	0	0
	Small	1.00	\$ 26.20	1	1	3	4	100%	0%	0%	880	\$0	0	0
SAW	Large	0.50	\$ 26.20	0	3	2	4	100%	0%	10%	314	\$0	0	0
	Small	1.00	\$ 26.20	0	1	3	4	100%	0%	0%	352	\$0	0	0
Plasma Cutting	Large	0.50	\$ 26.20	1	3	2	4	100%	0%	10%	78	\$0	0	0
	Small	1.00	\$ 26.20	1	1	3	4	100%	0%	0%	88	\$0	0	0

Table 6

		ADMTIME	NONSUPEWAGE	JOBPEL	SHIFTS	#SAMPS	%NOTQUART	%ABOVEPEL	%INHOUSE	%LEARN	#PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
Plasma Welding	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 78	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 88	= \$0	= 0	0
Resistance Welding	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 472	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 529	= \$0	= 0	0
MARITIME														
SMAW	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 17	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 10	= \$0	= 0	0
GMAW	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 24	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 14	= \$0	= 0	0
TIG	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 6	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 3	= \$0	= 0	0
FCAW	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 116	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 66	= \$0	= 0	0
Plasma Cutting	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 4	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 2	= \$0	= 0	0
Plasma Welding	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 2	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 1	= \$0	= 0	0
Oxy-fuel Cutting	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 4	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 2	= \$0	= 0	0
Air Carbon Arc Cutting	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 2	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 1	= \$0	= 0	0
Electric Torch Cutting	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 0	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 0	= \$0	= 0	0
Thermal Spray Tungsten Cutting	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 0	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 0	= \$0	= 0	0
SAW	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 15	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 9	= \$0	= 0	0
CONSTRUCTION														
SMAW	Large	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 201	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 1,609	= \$0	= 0	0
Plasma Cutting	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 3	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 21	= \$0	= 0	0
GMAW	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 41	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 322	= \$0	= 0	0
Brazing	State	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 20	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 161	= \$0	= 0	0
Metallizing	State	0.50	\$ 26.20	* 1	* 3	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 4	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 32	= \$0	= 0	0



Table 6

		ADMIN TIME	NONSUPEWAGE	JOBPEL	SHIFTS	# SAMPs	% NOTQUART	% ABOVEPEL	% INHOUSE	% LEARN	# PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
<b>GOVERNMENT</b>														
SMAW	State	0.50	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 19	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 590	= \$0	= 0	0
Plasma Cutting	State	0.50	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 0	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 8	= \$0	= 0	0
GMAW	State	0.50	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 4	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 118	= \$0	= 0	0
Brazing	State	0.50	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 2	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 59	= \$0	= 0	0
Metallizing	State	0.50	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 5% + 0% )	* 1	= \$0	= 0	0
	Local	1.00	\$ 26.20	* 1	* 1	* 1	* 4	* 100%	* 0%	* ( 0% + 0% )	* 12	= \$0	= 0	0
<b>Sector 2. Mild Steel Welding</b>														
<b>General Industry</b>														
SMAW	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 4,740	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 4,826	= \$0	= 0	0
GMAW	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 3,476	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 3,539	= \$0	= 0	0
TIG	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 1,053	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 1,073	= \$0	= 0	0
SAW	Large	0.50	\$ 26.20	* 0	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 421	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 429	= \$0	= 0	0
Plasma Cutting	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 105	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 107	= \$0	= 0	0
Plasma Welding	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 105	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 107	= \$0	= 0	0
Resistance Welding	Large	0.50	\$ 26.20	* 1	* 3	* 2	* 4	* 100%	* 0%	* ( 10% + 0% )	* 632	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 1	* 1	* 3	* 4	* 100%	* 0%	* ( 0% + 0% )	* 644	= \$0	= 0	0
<b>MARITIME</b>														
SMAW	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 37	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 21	= \$0	= 0	0
GMAW	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 53	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 30	= \$0	= 0	0
TIG	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 13	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 7	= \$0	= 0	0
FCAW	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 249	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 141	= \$0	= 0	0
Plasma Cutting	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 8	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 5	= \$0	= 0	0
Plasma Welding	Large	0.50	\$ 26.20	* 0	* 3	* 1	* 4	* 100%	* 0%	* ( 50% + 0% )	* 3	= \$0	= 0	0
	Small	1.00	\$ 26.20	* 0	* 2	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	* 2	= \$0	= 0	0

Table 6

		ADMITIME	NONSUPEWAGE	JOBPEL	SHIFTS	# SAMP	% NOTQUART	% ABOVEPEL	% INHOUSE	% LEARN	# PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
Oxy-fuel Cutting	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 50% + 0% )		8	\$0	0	0
	Small	1.00	\$ 26.20	0	2	1	100%	0%	( 10% + 0% )		5	\$0	0	0
Air Carbon Arc Cutting	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 50% + 0% )		3	\$0	0	0
	Small	1.00	\$ 26.20	0	2	1	100%	0%	( 10% + 0% )		2	\$0	0	0
Electric Torch Cutting	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 50% + 0% )		1	\$0	0	0
	Small	1.00	\$ 26.20	0	2	1	100%	0%	( 10% + 0% )		0	\$0	0	0
Thermal Spray Tungsten Cutting	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 50% + 0% )		1	\$0	0	0
	Small	1.00	\$ 26.20	0	2	1	100%	0%	( 10% + 0% )		0	\$0	0	0
SAW	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 50% + 0% )		33	\$0	0	0
	Small	1.00	\$ 26.20	0	2	1	100%	0%	( 10% + 0% )		18	\$0	0	0
<b>CONSTRUCTION</b>														
SMAW	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 5% + 0% )		301	\$0	0	0
	Small	1.00	\$ 26.20	0	1	1	100%	0%	( 0% + 0% )		2,277	\$0	0	0
Plasma Cutting	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 5% + 0% )		4	\$0	0	0
	Small	1.00	\$ 26.20	0	1	1	100%	0%	( 0% + 0% )		30	\$0	0	0
GMAW	Large	0.50	\$ 26.20	0	3	1	100%	0%	( 5% + 0% )		60	\$0	0	0
	Small	1.00	\$ 26.20	0	1	1	100%	0%	( 0% + 0% )		455	\$0	0	0
Brazing	State	0.50	\$ 26.20	0	3	1	100%	0%	( 5% + 0% )		30	\$0	0	0
	Local	1.00	\$ 26.20	0	1	1	100%	0%	( 0% + 0% )		228	\$0	0	0
Metallizing	State	0.50	\$ 26.20	0	3	1	100%	0%	( 5% + 0% )		6	\$0	0	0
	Local	1.00	\$ 26.20	0	1	1	100%	0%	( 0% + 0% )		45	\$0	0	0
<b>SECTOR 3. PAINTING</b>														
AEROSPACE	Large	0.50	\$ 33.07	1	3	3	100%	28%	( 75% + 0% )		49	\$202,146	6,113	390
	Small	1.00	\$ 33.07	1	1	3	100%	9%	( 25% + 0% )		62	\$18,182	550	17
AUTOBODY	Large	0.50	\$ 33.07	0	1	1	100%	5%	75% + 0%		326	\$0	0	49
	Small	1.00	\$ 33.07	2	1	1	100%	5%	25% + 0%		1,436	\$156,967	4,747	144
COIL COATING	Large	0.50	\$ 33.07	0	2	3	100%	8%	75% + 0%		100	\$0	0	150
	Small	1.00	\$ 33.07	0	1	3	100%	8%	25% + 0%		18	\$0	0	0
MARITIME	Large	0.50	\$ 33.07	1	3	1	100%	36%	90% + 0%		276	\$585,590	17,710	1,071
	Small	1.00	\$ 33.07	1	1	1	100%	36%	10% + 0%		476	\$74,998	2,268	69
CONSTRUCTION	Large	0.50	\$ 33.07	1	3	1	100%	22%	75% + 0%		671	\$726,160	21,961	2,056
	Small	1.00	\$ 33.07	1	1	1	100%	22%	50% + 0%		3,566	\$1,715,767	51,889	1,569
GOVERNMENT	Large	0.50	\$ 33.07	1	3	1	100%	12%	75% + 0%		12	\$6,898	209	13
	Small	1.00	\$ 33.07	1	1	1	100%	12%	75% + 0%		647	\$254,524	7,697	233
<b>SECTOR 4. Producers of Chromates</b>														
ALL	Large	0.50	\$ 38.68	0	3	3	100%	0%	( 0% + 0% )		2	\$0	0	0
	Small	1.00	\$ 38.68	0	1	3	100%	0%	( 0% + 0% )		0	\$0	0	0
<b>SECTOR 5. Chromate Pigment Procedures</b>														
ALL	Large	0.50	\$ 37.70	1	2	3	100%	77%	( 0% + 0% )		2	\$0	0	0
	Small	1.00	\$ 37.70	0	1	3	100%	0%	( 0% + 0% )		1	\$0	0	0

Table 6

		ADMIN TIME	NONSUPEWAGE	JOBPEL	SHIFTS	# SAMP	% NOTQUART	% ABOVEPEL	% INHOUSE	% LEARN	# PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
SECTOR 6. CCA Producers														
ALL	Large	0.50	\$ 31.94	0	3	3	4	100%	0%	( 0% + 0% )	2	\$0	0	0
	Small	1.00	\$ 31.94	0	3	0	4	100%	0%	( 0% + 0% )	0	\$0	0	0
SECTOR 7. Chromium Catalyst Producers														
ALL	Large	0.50	\$ 38.68	0	3	3	4	100%	0%	( 80% + 0% )	5	\$0	0	0
	Small	1.00	\$ 38.68	0	1	3	4	100%	0%	( 0% + 0% )	0	\$0	0	0
SECTOR 8. Paint and Coating Producers														
ALL	Large	0.50	\$ 28.81	0	2	3	4	100%	0%	( 25% + 75% )	80	\$0	0	0
	Small	1.00	\$ 28.81	0	2	3	4	100%	0%	( 25% + 75% )	126	\$0	0	0
SECTOR 9. Printing Ink Producers														
ALL	Large	0.50	\$ 28.86	0	1	9	4	100%	0%	( 10% + 0% )	2	\$0	0	0
	Small	0.50	\$ 28.86	0	1	5	4	100%	0%	( 10% + 0% )	8	\$0	0	0
SECTOR 10. Plastic Colorant Producers and Users														
ALL	Large	0.50	\$ 31.99	3	3	3	4	100%	36%	( 0% + 0% )	81	\$0	0	0
	Small	1.00	\$ 31.99	5	1	3	4	100%	36%	( 0% + 0% )	40	\$0	0	0
SECTOR 11. Plating Mixture Producers														
ALL	Large	0.50	\$ 28.71	0	1	3	4	100%	0%	( 20% + 0% )	6	\$0	0	0
	Small	1.00	\$ 28.71	0	1	3	4	100%	0%	( 25% + 0% )	4	\$0	0	0
SECTOR 13. Chromium Metal Producers														
ALL	Large	0.50	\$ 38.80	0	3	3	4	100%	0%	( 0% + 0% )	1	\$0	0	0
	Small	1.00	\$ 38.80	0	1	1	4	0%	0%	( 0% + 0% )	0	\$0	0	0
SECTOR 14. Iron and Steel Mills														
Alloy and Stainless Steel	Large	0.50	\$ 38.80	0	3	3	4	100%	0%	( 10% + 0% )	34	\$0	0	0
	Small	1.00	\$ 38.80	0	1	3	4	100%	0%	( 10% + 0% )	11	\$0	0	0
Carbon Steel	Large	0.50	\$ 38.80	0	3	3	4	100%	0%	( 10% + 0% )	102	\$0	0	0
	Small	1.00	\$ 38.80	0	1	1	4	100%	0%	( 10% + 0% )	32	\$0	0	0
SECTOR 14B. Forging Industry														
Reshaping	Large	0.50	\$ 38.80	0	1	3	4	100%	63%	( 10% + 0% )	33	\$0	0	25
	Small	1.00	\$ 38.80	0	1	3	4	100%	63%	( 10% + 0% )	31	\$0	0	0
SECTOR 15. Iron and Steel Foundries														
ALL	Large	0.50	\$ 28.31	0	3	5	4	100%	0%	( 10% + 0% )	163	\$0	0	0
	Small	1	\$ 28.31	0	1	5	4	100%	0%	( 10% + 0% )	118	\$0	0	0
SECTOR 17. Chromium Dye Producers														
ALL	Large	0.50	\$ 37.70	7	1	21	4	100%	62%	( 0% + 0% )	3	\$0	0	0
	Small	1	\$ 37.70	5	1	7	4	100%	62%	( 0% + 0% )	1	\$0	0	0
SECTOR 18. Chromium Sulfate Producers														
ALL	Large	0.50	\$ 41.50	0	1	3	4	100%	0%	( 0% + 0% )	0	\$0	0	0
	Small	0.50	\$ 41.50	0	1	3	4	100%	0%	( 0% + 0% )	5	\$0	0	0
SECTOR 19. Chemical Distributors														
ALL	Large	0.50	\$ 29.92	0	1	3	4	100%	0%	( 0% + 0% )	216	\$0	0	0
	Small	0.50	\$ 29.92	0	1	3	4	100%	0%	( 0% + 0% )	1,627	\$0	0	0

Table 6

		ADMIN TIME	NONSUPERWAGE	JOBPEL	SHIFTS	# SAMP	% NOTQUART	% ABOVEPEL	% INHOUSE	% LEARN	# PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
SECTOR 20. Textile Dyeing														
ALL	Large	0.50	\$ 19.97	0	3	3	4	100%	0%	*( 10% + 0% )	343	= \$0	= 0	0
	Small	0.50	\$ 19.97	0	1	2	4	100%	0%	*( 10% + 0% )	697	= \$0	= 0	0
SECTOR 21. Colored Glass Producers														
ALL	Large	0.50	\$ 28.87	0	3	12	4	100%	0%	*( 10% + 0% )	6	= \$0	= 0	0
	Small	1.00	\$ 28.87	0	1	4	4	100%	0%	*( 10% + 0% )	20	= \$0	= 0	0
Fiber, Flat, Container Glass	Large	0.50	\$ 28.87	1	1	1	4	100%	20%	*( 10% + 0% )	90	= \$3,005	= 104	7
	Small	1.00	\$ 28.87	1	1	1	4	100%	0%	*( 10% + 0% )	5	= \$0	= 0	0
SECTOR 22. Printing														
ALL	Large	0.50	\$ 20.85	0	3	2	4	100%	0%	*( 10% + 0% )	81	= \$0	= 0	0
	Small	0.50	\$ 20.85	0	1	2	4	100%	0%	*( 10% + 0% )	325	= \$0	= 0	0
SECTOR 24. Chromium Catalyst Users														
Catalyst Users	Large	0.50	\$ 32.51	0	3	3	4	100%	0%	*( 10% + 0% )	179	= \$0	= 0	0
	Small	1.00	\$ 32.51	0	1	3	4	100%	0%	*( 10% + 0% )	0	= \$0	= 0	0
Chromium Catalyst Service Companies	Large	0.50	\$ 32.51	0	3	3	4	100%	0%	*( 10% + 0% )	23	= \$0	= 0	0
	Small	1.00	\$ 32.51	0	1	3	4	100%	0%	*( 10% + 0% )	4	= \$0	= 0	0
SECTOR 25. Refractory Brick Producers														
ALL	Large	0.50	\$ 25.64	0	1	15	4	100%	0%	*( 10% + 0% )	5	= \$0	= 0	0
	Small	0.50	\$ 25.64	0	1	0	4	100%	0%	*( 10% + 0% )	0	= \$0	= 0	0
SECTOR 26. Woodworking														
General Industry	Large	0.50	\$ 32.11	0	1	2	4	100%	0%	*( 0% + 0% )	148	= \$0	= 0	0
	Small	1.00	\$ 32.11	0	1	2	4	100%	0%	*( 0% + 0% )	79	= \$0	= 0	0
Maritime	Large	0.50	\$ 32.11	0	1	1	4	100%	0%	*( 0% + 0% )	36	= \$0	= 0	0
	Small	1.00	\$ 32.11	0	1	1	4	100%	0%	*( 0% + 0% )	32	= \$0	= 0	0
Construction	Large	0.50	\$ 32.11	0	1	1	4	100%	22%	*( 0% + 0% )	1,162	= \$0	= 0	0
	Small	1.00	\$ 32.11	0	1	1	4	100%	22%	*( 0% + 0% )	4,650	= \$0	= 0	0
Government	STATE	0.50	\$ 32.11	0	1	1	4	100%	22%	*( 0% + 0% )	12	= \$0	= 0	0
	LOCAL	1.00	\$ 32.11	0	1	1	4	100%	22%	*( 0% + 0% )	42	= \$0	= 0	0
SECTOR 27. Solid Waste Incineration														
GENERAL INDUSTRY	Large	0.50	\$ 27.23	0	3	15	4	100%	0%	*( 10% * 0% )	40	= \$0	= 0	0
	Small	1.00	\$ 27.23	0	1	3	4	100%	0%	*( 10% * 0% )	48	= \$0	= 0	0
GOVERNMENT	STATE	0.50	\$ 27.23	0	3	15	4	100%	0%	*( 10% * 0% )	0	= \$0	= 0	0
	LOCAL	1.00	\$ 27.23	0	1	3	4	100%	0%	*( 10% * 0% )	24	= \$0	= 0	0
SECTOR 30. Superalloy Producers and Users														
ALL	Large	0.50	\$ 27.93	0	3	3	4	100%	0%	*( 0% + 0% )	19	= \$0	= 0	0
	Small	1.00	\$ 27.93	0	3	3	4	100%	0%	*( 0% + 0% )	0	= \$0	= 0	0
SECTOR 31. Construction														
Industrial Rehabilitation	Large	0.50	\$ 32.13	0	1	1	4	100%	0%	*( 0% + 0% )	51	= \$0	= 0	0
	Small	1.00	\$ 32.13	0	1	1	4	100%	0%	*( 0% + 0% )	233	= \$0	= 0	0
	State	0.50	\$ 32.13	0	1	1	4	100%	0%	*( 0% + 0% )	15	= \$0	= 0	0
	Local	1.00	\$ 32.13	0	1	1	4	100%	0%	*( 0% + 0% )	88	= \$0	= 0	0

Table 6

		ADMINTIME	NONSUPEWAGE	JOBPEL	SHIFTS	# SAMPS	% NOTQUART	% ABOVEPEL	% INHOUSE	% LEARN	# PLANTS	Item 12 COSTS	TOTAL HOURS	RESPONSES
Hazardous Waste-site Work	Large	0.50 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	*	40 =	\$0 =	0	0
	Small	1.00 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	*	170 =	\$0 =	0	0
	State	0.50 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	*	1 =	\$0 =	0	0
	Local	1.00 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 0%	* ( 10% + 0% )	*	239 =	\$0 =	0	0
Refractory Brick Restoration	Large	0.50 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 60%	* ( 10% + 0% )	*	44 =	\$0 =	0	11
	Small	1.00 * \$	32.13 * 0	* 1	* 1	* 4	* 100%	* 60%	* ( 10% + 0% )	*	175 =	\$0 =	0	0
<b>Total</b>											<b>75,684</b>	<b>\$4,675,850</b>	<b>148,807</b>	<b>8,394</b>

Table 7

**Quarterly Exposure Monitoring (Paragraph (d)(2)(iv)); Contract Cost for an IH Technician to Perform Quarterly Exposure Monitoring**

This table calculates the contract cost for the employer to have an outside industrial hygiene technician perform quarterly exposure monitoring.

$$\text{COST} = (\text{QUARTCONTTIME} * \text{CONTCOST} * 4 * \% \text{NOTQUART} * \% \text{ABOVEPEL} * \% \text{CONT}) * \# \text{PLANTS}$$

**Variable**

- \* **QUARTCONTTIME** = Time, in hours, for an outside contractor (industrial hygiene technician) to conduct quarterly-annual monitoring
- \* **CONTCOST** = Cost per hour for an outside industrial hygiene contractor
- \* **4** = 4 times per year (quarterly)
- \* **%NOTQUART** = Percent of plants not performing quarterly monitoring requirements
- \* **%ABOVEPEL** = Percent of plants that have an employee in at least one job category above the PEL
- \* **%CONT** = Percent of plants that will continue to use an outside contractor for monitoring
- \* **#PLANTS** = Number of plants represented by the model output

24.93%

	QUARTCONTTIME	CONTCOST	QUARTERLY	%NOTQUART	%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
<b>Sector 1. Electroplating</b>								
Hard Chrome	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 883	= \$0
	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 1,662	= \$0
Job Shop Chrome Plater	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 426	= \$0
	( 12	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 801	= \$0
Captive Shop Chrome	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 580	= \$0
	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 1,092	= \$0
Job Shop Plater	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 426	= \$0
	( 12	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 801	= \$0
Captive Shop Plater	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 503	= \$0
	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 946	= \$0
Operator	( 0	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 883	= \$0
	( 12	* \$ 112.44	* 4	* 100%	* ( 0.00%	* 100%	) * 1,662	= \$0
<b>Sector 2. Welding</b>								
SMAW	( 12	* \$ 112.44	* 4	* 100%	* ( 4.85%	* 90%	) * 3,535	= \$832,871
	( 12	* \$ 112.44	* 4	* 100%	* ( 4.84%	* 100%	) * 3,962	= \$1,034,810
GMAW	( 12	* \$ 112.44	* 4	* 100%	* ( 0.37%	* 90%	) * 2,593	= \$46,608
	( 12	* \$ 112.44	* 4	* 100%	* ( 0.38%	* 100%	) * 2,905	= \$59,587

Table 7

	QUART	CONT	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
TIG	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 786 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 880 = \$0						
SAW	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 314 = \$0	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 352 = \$0						
Plasma Cutting	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 78 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 88 = \$0						
Plasma Welding	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 78 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 88 = \$0						
Resistance Welding	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 472 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 529 = \$0						
MARITIME								
SMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 17 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 10 = \$0						
GMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 24 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 14 = \$0						
TIG	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 6 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 3 = \$0						
FCAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 116 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 66 = \$0						
Plasma Cutting	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 4 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 2 = \$0						
Plasma Welding	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 2 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 1 = \$0						
Oxy-fuel Cutting	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 4 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 2 = \$0						
Air Carbon Arc Cutting	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 2 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 1 = \$0						
Electric Torch Cutting	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 0 = \$0	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 = \$0						

Table 7

	QUART	CONT	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS	
Thermal Spray Tungsten Cutting	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 0 = \$0	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 = \$0							
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 15 = \$0	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 9 = \$0							
<b>CONSTRUCTION</b>									
SMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 201 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 1,609 = \$0							
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 3 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 21 = \$0							
Plasma Cutting	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 41 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 322 = \$0							
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 20 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 161 = \$0							
GMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 4 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 32 = \$0							
	<b>GOVERNMENT</b>								
SMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 19 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 590 = \$0							
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 0 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 8 = \$0							
Plasma Cutting	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 4 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 118 = \$0							
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 2 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 59 = \$0							
GMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 1 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 12 = \$0							
	<b>Sector 2. Mild Steel Welding</b>								
SMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 4,740 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 4,826 = \$0							
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 3,476 = \$0	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 3,539 = \$0							
GMAW									



Table 7

	QUARTCONTIME	CONTCOST	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
TIG	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 1,053 =	\$0						
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 1,073 =	\$0						
SAW	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 421 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 429 =	\$0						
Plasma Cutting	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 105 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 107 =	\$0						
Plasma Welding	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 105 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 107 =	\$0						
Resistance Welding	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 632 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 644 =	\$0						
MARITIME								
SMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 37 =	\$0						
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 21 =	\$0						
GMAW	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 53 =	\$0						
	( 12 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 30 =	\$0						
TIG	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 13 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 7 =	\$0						
FCAW	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 249 =	\$0						
	( 0 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 141 =	\$0						
Plasma Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 8 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 5 =	\$0						
Plasma Welding	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 3 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 2 =	\$0						
Oxy-fuel Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 8 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 5 =	\$0						
Air Carbon Arc Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 3 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 2 =	\$0						
Electric Torch Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 1 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 =	\$0						

Table 7

	QUARTCONTIME	CONTCOST	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
Thermal Spray Tungsten Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 1 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 =	\$0						
SAW	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 50% ) * 33 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 18 =	\$0						
<b>CONSTRUCTION</b>								
SMAW	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 301 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 2,277 =	\$0						
Plasma Cutting	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 4 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 30 =	\$0						
GMAW	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 60 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 455 =	\$0						
Brazing	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 30 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 228 =	\$0						
Metallizing	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 95% ) * 6 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 45 =	\$0						
<b>SECTOR 3. PAINTING</b>								
AEROSPACE	( 12.00 * \$ 112.44 * 4 * 100% * ( 28.00% * 25% ) * 49 =	\$18,478						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 9.00% * 75% ) * 62 =	\$22,438						
AUTOBODY	( 12.00 * \$ 112.44 * 4 * 100% * ( 5.00% * 25% ) * 326 =	\$21,998						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 5.00% * 75% ) * 1,436 =	\$290,555						
MARITIME	( 12.00 * \$ 112.44 * 4 * 100% * ( 36.00% * 10% ) * 100 =	\$19,358						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 36.00% * 90% ) * 18 =	\$31,677						
COIL COATING	( 12.00 * \$ 112.44 * 4 * 100% * ( 8.00% * 25% ) * 276 =	\$29,738						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 8.00% * 75% ) * 476 =	\$154,250						
CONSTRUCTION	( 12.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 25% ) * 671 =	\$199,135						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 50% ) * 3,566 =	\$2,117,317						
GOVERNMENT	( 12.00 * \$ 112.44 * 4 * 100% * ( 12.00% * 25% ) * 12 =	\$1,892						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 12.00% * 25% ) * 647 =	\$104,697						
<b>SECTOR 4. Producers of Chromates</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 2 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 0% ) * 0 =	\$0						
<b>SECTOR 5. Chromate Pigment Procedures</b>								

Table 7

	QUART	CONT	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 77.00% * 100% ) * 2 =	\$7,478						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 1 =	\$0						
SECTOR 6. CCA Producers								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 2 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 0% ) * 0 =	\$0						
SECTOR 7. Chromium Catalyst Producers								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 20% ) * 5 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 0% ) * 0 =	\$0						
SECTOR 8. Paint and Coating Producers								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 75% ) * 80 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 75% ) * 126 =	\$0						
SECTOR 9. Printing Ink Producers								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 2 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 8 =	\$0						
SECTOR 10. Plastic Colorant Producers and Users								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 36.00% * 100% ) * 81 =	\$158,306						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 36.00% * 100% ) * 40 =	\$77,432						
SECTOR 11. Plating Mixture Producers								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 80% ) * 6 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 75% ) * 4 =	\$0						
SECTOR 13. Chromium Metal Producers								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 1 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 0% * ( 0.00% * 0% ) * 0 =	\$0						
SECTOR 14. Iron and Steel Mills								
ALLOY AND STAINLESS STEEL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 34 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 11 =	\$0						
CARBON STEEL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 102 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 32 =	\$0						
SECTOR 14B. FORGING INDUSTRY								
RESHAPING	( 0.00 * \$ 112.44 * 4 * 100% * ( 63.00% * 90% ) * 33 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 63.00% * 90% ) * 31 =	\$0						

Table 7

	QUARTCONTIME	CONTCOST	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
<b>SECTOR 15. Iron and Steel Foundries</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 163 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 118 =	\$0						
<b>SECTOR 17. Chromium Dye Producers</b>								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 62.00% * 100% ) * 3 =	\$9,032						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 62.00% * 100% ) * 1 =	\$3,011						
<b>SECTOR 18. Chromium Sulfate Producers</b>								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 0% ) * 0 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 5 =	\$0						
<b>SECTOR 19. Chemical Distributors</b>								
ALL	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 216 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 1,627 =	\$0						
<b>SECTOR 20. Textile Dyeing</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 343 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 697 =	\$0						
<b>SECTOR 21. Colored Glass Producers</b>								
General Industry	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 6 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 20 =	\$0						
Fiber, Flat and Container Glass	( 12.00 * \$ 112.44 * 4 * 100% * ( 20.00% * 90% ) * 90 =	\$87,572						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 5 =	\$0						
<b>SECTOR 22. Printing</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 81 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 325 =	\$0						
<b>SECTOR 24. Chromium Catalyst Users</b>								
CATALYST USER	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 179 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 =	\$0						
CATALYST SERVICE COMPANIES	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 23 =	\$0						
	( 12.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 4 =	\$0						
<b>SECTOR 25. Refractory Brick Producers</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 5 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 0 =	\$0						
<b>SECTOR 26. Woodworking</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 148 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 79 =	\$0						

Table 7

	QUARTCONTIME	CONTCOST	QUARTERLY	%NOTQUART	*%ABOVEPEL	%CONT	PLANTS	Item 13 COSTS
MARITIME	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 36 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 32 =	\$0						
CONSTRUCTION	( 0.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 100% ) * 1,162 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 100% ) * 4,650 =	\$0						
GOVERNMENT	( 0.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 100% ) * 12 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 22.00% * 100% ) * 42 =	\$0						
<b>SECTOR 27. Solid Waste Incineration</b>								
GENERAL INDUSTRY	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 40 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 48 =	\$0						
GOVERNMENT	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 25% ) * 0 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 24 =	\$0						
<b>SECTOR 30. Superalloy Producers and Users</b>								
ALL	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 19 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 0% ) * 0 =	\$0						
<b>SECTOR 31. Construction</b>								
Industrial Rehabilitation	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 51 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 233 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 15 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 100% ) * 88 =	\$0						
Hazardous Waste-site Work	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 40 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 170 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 1 =	\$0						
Refractory Brick Restoration	( 0.00 * \$ 112.44 * 4 * 100% * ( 0.00% * 90% ) * 239 =	\$0						
	( 0.00 * \$ 112.44 * 4 * 100% * ( 60.00% * 90% ) * 44 =	\$0						
Total	( 0.00 * \$ 112.44 * 4 * 100% * ( 60.00% * 90% ) * 175 =	\$0						
		<b>75,684 \$5,328,238</b>						

Table 8

**Quarterly Exposure Monitoring (Paragraph (d)(2)(iv)); Contract Cost for a Laboratory to Conduct Analysis of Quarterly Exposure Monitoring**

This table calculates the contract cost for the employer to have a laboratory conduct analysis of air samples collected during quarterly exposure monitoring.

$$\text{Cost} = (\text{SAMPCOST} * \text{JOBPEL} * \text{SHIFTS} * \text{\#SAMPS} * 4 * \% \text{NOTQUART} * \% \text{ABOVEPEL}) * \text{\#PLANTS}$$

**Variables**

- \* **SAMPCOST** = Variable cost per sample
- \* **JOBPEL** = Number of job categories exposed above the PEL
- \* **SHIFTS** = Number of work shifts
- \* **\#SAMPS** = Number of samples per exposure measurement
- \* **4** = four times per year (quarterly)
- \* **\%NOTQUART** = Percent of plants not performing quarterly monitoring requirements
- \* **\%ABOVEPEL** = Percent of plants that have an employee in at least one job category above the PEL
- \* **\#PLANTS** = Number of plants represented by the model output

		SAMPCOST	JOBPEL	SHIFTS	\#SAMPS	QUARTERLY	\%NOTQUART	\%ABOVEPEL	\#PLANTS	Item 13 COST
<b>Sector 1. Electroplating</b>										
Hard Chrome	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 883	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 1,662	= \$0
Job Shop Chrome Plater	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 426	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 801	= \$0
Captive Shop Chrome Plater	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 580	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 1,092	= \$0
Job Shop Plater	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 426	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 801	= \$0
Captive Shop Plater	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 503	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 946	= \$0
Operator	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 883	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	) * 1,662	= \$0
<b>Sector 2. Welding</b>										
GENERAL INDUSTRY										
SMAW	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 4.85%	) * 3,535	= \$316,600
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 4.84%	) * 3,962	= \$177,013
GMAW	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.37%	) * 2,593	= \$17,717
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.38%	) * 2,905	= \$10,193
TIG	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	) * 786	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	) * 880	= \$0
SAW	Large	( \$77	* 0	* 3	* 2	* 4	* 100%	* 0.00%	) * 314	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 352	= \$0
Plasma Cutting	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	) * 78	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	) * 88	= \$0

Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST
Plasma Welding	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 78	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 88	= \$0
Resistance Welding	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 472	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 529	= \$0
MARITIME										
SMAW	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 17	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 10	= \$0
GMAW	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 24	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 14	= \$0
TIG	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 6	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 3	= \$0
FCAW	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 116	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 66	= \$0
Plasma Cutting	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 4	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 2	= \$0
Plasma Welding	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 2	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 1	= \$0
Oxy-fuel Cutting	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 4	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 2	= \$0
Air Carbon Arc Cutting	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 2	= \$0
	Small	( \$77	* 1	* 2	* 1	* 4	* 100%	* 0.00%	)* 1	= \$0
Electric Torch Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 0	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	)* 0	= \$0
Thermal Spray Tungsten Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 0	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	)* 0	= \$0
SAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 15	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	)* 9	= \$0
CONSTRUCTION										
SMAW	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 201	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 1,609	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 3	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 21	= \$0
GMAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 41	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 322	= \$0

Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST
Brazing	State	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 20	= \$0
	Local	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 161	= \$0
Metallizing	State	( \$77	* 1	* 3	* 1	* 4	* 100%	* 0.00%	)* 4	= \$0
	Local	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 32	= \$0
<b>GOVERNMENT</b>										
SMAW	Large	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 19	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 590	= \$0
Plasma Cutting	Large	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 0	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 8	= \$0
GMAW	Large	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 4	= \$0
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 118	= \$0
Brazing	State	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 2	= \$0
	Local	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 59	= \$0
Metallizing	State	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 1	= \$0
	Local	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	)* 12	= \$0
<b>Sector 2. Mild Steel Welding</b>										
SMAW	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 4,740	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 4,826	= \$0
GMAW	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 3,476	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 3,539	= \$0
TIG	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 1,053	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 1,073	= \$0
SAW	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 421	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 429	= \$0
Plasma Cutting	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 105	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 107	= \$0
Plasma Welding	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 105	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 107	= \$0
Resistance Welding	Large	( \$77	* 1	* 3	* 2	* 4	* 100%	* 0.00%	)* 632	= \$0
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 0.00%	)* 644	= \$0
<b>MARITIME</b>										
SMAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 37	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	)* 21	= \$0
GMAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	)* 53	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	)* 30	= \$0



Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST
TIG	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 13	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 7	= \$0
FCAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 249	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 141	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 8	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 5	= \$0
Plasma Welding	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 3	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 2	= \$0
Oxy-fuel Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 8	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 5	= \$0
Air Carbon Arc Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 3	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 2	= \$0
Electric Torch Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 1	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 0	= \$0
Thermal Spray Tungsten Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 1	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 0	= \$0
SAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 33	= \$0
	Small	( \$77	* 0	* 2	* 1	* 4	* 100%	* 0.00%	) * 18	= \$0
<b>CONSTRUCTION</b>										
SMAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 301	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 2,277	= \$0
Plasma Cutting	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 4	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 30	= \$0
GMAW	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 60	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 455	= \$0
Brazing	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 30	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 228	= \$0
Metallizing	Large	( \$77	* 0	* 3	* 1	* 4	* 100%	* 0.00%	) * 6	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 45	= \$0
<b>SECTOR 3. PAINTING</b>										
AEROSPACE	Large	( \$77	* 1	* 3	* 3	* 4	* 100%	* 28.00%	) * 49	= \$37,930
	Small	( \$77	* 1	* 1	* 3	* 4	* 100%	* 9.00%	) * 62	= \$5,118
AUTOBODY	Large	( \$77	* 0	* 1	* 1	* 4	* 100%	* 5.00%	) * 326	= \$0
	Small	( \$77	* 2	* 1	* 1	* 4	* 100%	* 5.00%	) * 1,436	= \$44,180

Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST
COIL COATING	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 8.00%	) * 100	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 8.00%	) * 18	= \$0
MARITIME	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 36.00%	) * 276	= \$91,566
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 36.00%	) * 476	= \$52,771
CONSTRUCTION	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 22.00%	) * 671	= \$136,255
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 22.00%	) * 3,566	= \$241,457
GOVERNMENT	Large	( \$77	* 1	* 3	* 1	* 4	* 100%	* 12.00%	) * 12	= \$1,294
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 12.00%	) * 647	= \$23,879
SECTOR 4. Producers of Chromates										
ALL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 2	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 0	= \$0
SECTOR 5. Chromate Pigment Procedures										
ALL	Large	( \$77	* 1	* 2	* 3	* 4	* 100%	* 77.00%	) * 2	= \$2,558
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 1	= \$0
SECTOR 6. CCA Producers										
ALL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 2	= \$0
	Small	( \$77	* 0	* 3	* 0	* 4	* 100%	* 0.00%	) * 0	= \$0
SECTOR 7. Chromium Catalyst Producers										
ALL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 5	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 0	= \$0
SECTOR 8. Paint and Coating Producers										
ALL	Large	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 80	= \$0
	Small	( \$77	* 0	* 2	* 3	* 4	* 100%	* 0.00%	) * 126	= \$0
SECTOR 9. Printing Ink Producers										
ALL	Large	( \$77	* 0	* 1	* 9	* 4	* 100%	* 0.00%	) * 2	= \$0
	Small	( \$77	* 0	* 1	* 5	* 4	* 100%	* 0.00%	) * 8	= \$0
SECTOR 10. Plastic Colorant Producers and Users										
ALL	Large	( \$77	* 3	* 3	* 3	* 4	* 100%	* 36.00%	) * 81	= \$243,716
	Small	( \$77	* 5	* 1	* 3	* 4	* 100%	* 36.00%	) * 40	= \$66,227
SECTOR 11. Plating Mixture Producers										
ALL	Large	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 6	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 4	= \$0
SECTOR 13. Chromium Metal Producers										
ALL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 1	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 0%	* 0.00%	) * 0	= \$0
SECTOR 14. Iron and Steel Mills										
ALLOY AND STAINLESS STEEL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 34	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 11	= \$0

Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST
CARBON STEEL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 102	= \$0
	Small	( \$77	* 0	* 1	* 1	* 4	* 100%	* 0.00%	) * 32	= \$0
14b. FORGING INDUSTRY										
Reshaping	Large	( \$77	* 0	* 1	* 3	* 4	* 100%	* 63.00%	) * 33	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 63.00%	) * 31	= \$0
SECTOR 15. Iron and Steel Foundries										
ALL	Large	( \$77	* 0	* 3	* 5	* 4	* 100%	* 0.00%	) * 163	= \$0
	Small	( \$77	* 0	* 1	* 5	* 4	* 100%	* 0.00%	) * 118	= \$0
SECTOR 17. Chromium Dye Producers										
ALL	Large	( \$77	* 7	* 1	* 21	* 4	* 100%	* 62.00%	) * 3	= \$75,707
	Small	( \$77	* 5	* 1	* 7	* 4	* 100%	* 62.00%	) * 1	= \$6,009
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 0	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 5	= \$0
SECTOR 19. Chemical Distributors										
ALL	Large	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 216	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 1,627	= \$0
SECTOR 20. Textile Dyeing										
ALL	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 343	= \$0
	Small	( \$77	* 0	* 1	* 2	* 4	* 100%	* 0.00%	) * 697	= \$0
SECTOR 21. Colored Glass Producers										
General Industry	Large	( \$77	* 0	* 3	* 12	* 4	* 100%	* 0.00%	) * 6	= \$0
	Small	( \$77	* 0	* 1	* 4	* 4	* 100%	* 0.00%	) * 20	= \$0
Fiber, Flat and Container Glass	Large	( \$77	* 1	* 1	* 1	* 4	* 100%	* 20.00%	) * 90	= \$5,548
	Small	( \$77	* 1	* 1	* 1	* 4	* 100%	* 0.00%	) * 5	= \$0
SECTOR 22. Printing										
ALL	Large	( \$77	* 0	* 3	* 2	* 4	* 100%	* 0.00%	) * 81	= \$0
	Small	( \$77	* 0	* 1	* 2	* 4	* 100%	* 0.00%	) * 325	= \$0
SECTOR 24. Chromium Catalyst Users										
Chromium Users	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 179	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 0	= \$0
Chromium Catalyst Service Companies	Large	( \$77	* 0	* 3	* 3	* 4	* 100%	* 0.00%	) * 23	= \$0
	Small	( \$77	* 0	* 1	* 3	* 4	* 100%	* 0.00%	) * 4	= \$0
SECTOR 25. Refractory Brick Producers										
ALL	Large	( \$77	* 0	* 1	* 15	* 4	* 100%	* 0.00%	) * 5	= \$0
	Small	( \$77	* 0	* 1	* 0	* 4	* 100%	* 0.00%	) * 0	= \$0

Table 8

		SAMPCOST	JOBPEL	SHIFTS	#SAMPS	QUARTERLY	%NOTQUART	%ABOVEPEL	#PLANTS	Item 13 COST										
SECTOR 26. Woodworking																				
General Industry	Large	(	\$77	*	0	*	1	*	2	*	4	*	100%	*	0.00%	)	*	148	=	\$0
	Small	(	\$77	*	0	*	1	*	2	*	4	*	100%	*	0.00%	)	*	79	=	\$0
Maritime	Large	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	36	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	32	=	\$0
Construction	Large	(	\$77	*	0	*	1	*	1	*	4	*	22%	*	0.00%	)	*	1,162	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	4	*	22%	*	0.00%	)	*	4,650	=	\$0
Government	State	(	\$77	*	0	*	1	*	1	*	4	*	22%	*	0.00%	)	*	12	=	\$0
	Local	(	\$77	*	0	*	1	*	1	*	4	*	22%	*	0.00%	)	*	42	=	\$0
SECTOR 27. Solid Waste Incineration																				
GENERAL INDUSTRY	Large	(	\$77	*	0	*	3	*	15	*	4	*	100%	*	0.00%	)	*	40	=	\$0
	Small	(	\$77	*	0	*	1	*	3	*	4	*	100%	*	0.00%	)	*	48	=	\$0
GOVERNMENT	Large	(	\$77	*	0	*	3	*	15	*	4	*	100%	*	0.00%	)	*	0	=	\$0
	Small	(	\$77	*	0	*	1	*	3	*	4	*	100%	*	0.00%	)	*	24	=	\$0
SECTOR 30. Superalloy Producers and Users																				
ALL	Large	(	\$77	*	0	*	3	*	3	*	4	*	100%	*	0.00%	)	*	19	=	\$0
	Small	(	\$77	*	0	*	3	*	3	*	4	*	100%	*	0.00%	)	*	0	=	\$0
SECTOR 31. Construction																				
Industrial Rehabilitation	Large	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	51	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	233	=	\$0
	State	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	15	=	\$0
	Local	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	88	=	\$0
Hazardous Waste-site Work	Large	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	40	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	170	=	\$0
	State	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	1	=	\$0
Refractory Brick Restoration	Local	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	0.00%	)	*	239	=	\$0
	Large	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	60.00%	)	*	44	=	\$0
	Small	(	\$77	*	0	*	1	*	1	*	4	*	100%	*	60.00%	)	*	175	=	\$0
<b>Total</b>																		<b>75,684</b>	<b>\$1,555,739</b>	

Table 9

Employer Time and Cost to Notify Employees of Quarterly Monitoring Results

**HOURS = ((NOTETIME \* JOBPEL \* SHIFTS \* #SAMPS \* 4) \* %NOTQUART \* %ABOVEPEL) \* #PLANTS**  
**COST = (SUPWAGE) \* BURDEN HOURS**

**ASSUMPTIONS:**

- \* SUPWAGE = Supervisory wage rate, \$/hr.
- \* NOTETIME = Time, in hours, to notify an employee of the exposure monitoring results
- \* JOBPEL = Number of job categories exposed above the PEL
- \* SHIFTS = Number of work shifts
- \* #SAMPS = Number of samples per exposure measurement
- \* 4 = 4 times per year (quarterly)
- \* %NOTQUART = Percent of plants not performing quarterly monitoring requirements
- \* %ABOVEPEL = Percent of plants that have an employee in at least one job category above the PEL
- \* #PLANTS = Number of plants represented by the model input

20.69%

		NOTETIME	JOBPEL	SHIFTS	#SAMPS	4	%NOTQUART	%ABOVEPEL	#PLANTS	Hours	SUPWAGE	Item 12 Cost	Responses
<b>Sector 1. Electroplating</b>													
Hard Chrome	Large	0.25	0	2	3	4	100%	0.00%	883	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	1,662	0	\$ 36.22	\$0	0
Job Shop Chrome Plater	Large	0.25	0	2	3	4	100%	0.00%	426	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	801	0	\$ 36.22	\$0	0
Captive Shop Chrome Plater	Large	0.25	0	2	3	4	100%	0.00%	580	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	1,092	0	\$ 36.22	\$0	0
Job Shop Plater	Large	0.25	0	2	3	4	100%	0.00%	426	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	801	0	\$ 36.22	\$0	0
Captive Shop Plater	Large	0.25	0	2	3	4	100%	0.00%	503	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	946	0	\$ 36.22	\$0	0
Operator	Large	0.25	0	2	3	4	100%	0.00%	883	0	\$ 36.22	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	1,662	0	\$ 36.22	\$0	0
<b>Sector 2. Welding</b>													
SMAW	Large	0.25	1	3	2	4	100%	4.85%	3,535	1,029	\$ 35.65	\$36,680	4115
	Small	0.25	1	1	3	4	100%	4.84%	3,962	575	\$ 35.65	\$20,508	2301
GMAW	Large	0.25	1	3	2	4	100%	0.37%	2,593	58	\$ 35.65	\$2,053	230
	Small	0.25	1	1	3	4	100%	0.38%	2,905	33	\$ 35.65	\$1,181	132
TIG	Large	0.25	1	3	2	4	100%	0.00%	786	0	\$ 35.65	\$0	0
	Small	0.25	1	1	3	4	100%	0.00%	880	0	\$ 35.65	\$0	0
SAW	Large	0.25	0	3	2	4	100%	0.00%	314	0	\$ 35.65	\$0	0
	Small	0.25	0	1	3	4	100%	0.00%	352	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25	1	3	2	4	100%	0.00%	78	0	\$ 35.65	\$0	0
	Small	0.25	1	1	3	4	100%	0.00%	88	0	\$ 35.65	\$0	0
Plasma Welding	Large	0.25	1	3	2	4	100%	0.00%	78	0	\$ 35.65	\$0	0

Table 9

		NOTETIME	JOBPEL	SHIFTS	#SAMPS	4	%NOTQUART	%ABOVEPEL	#PLANTS	Hours	SUPWAGE	Item 12 Cost	Responses
	Small	0.25 *	1 *	1 *	3 *	4 *	100% *	0.00% *	88	0	\$ 35.65	\$0	0
Resistance Welding	Large	0.25 *	1 *	3 *	2 *	4 *	100% *	0.00% *	472	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	3 *	4 *	100% *	0.00% *	529	0	\$ 35.65	\$0	0
MARITIME													
SMAW	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	17	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	10	0	\$ 35.65	\$0	0
GMAW	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	24	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	14	0	\$ 35.65	\$0	0
TIG	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	6	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	3	0	\$ 35.65	\$0	0
FCAW	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	116	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	66	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	4	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	2	0	\$ 35.65	\$0	0
Plasma Welding	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	2	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	1	0	\$ 35.65	\$0	0
Oxy-fuel Cutting	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	4	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	2	0	\$ 35.65	\$0	0
Air Carbon Arc Cutting	Large	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	2	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	1	0	\$ 35.65	\$0	0
Electric Torch Cutting	Large	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	0	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	0	0	\$ 35.65	\$0	0
Thermal Spray Tungsten Cutting	Large	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	0	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	0	0	\$ 35.65	\$0	0
SAW	Large	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	15	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	1 *	1 *	4 *	100% *	0.00% *	9	0	\$ 35.65	\$0	0
CONSTRUCTION													
SMAW	Large	0.25 *	1 *	3 *	1 *	4 *	100% *	0.00% *	201	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	1,609	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25 *	0 *	3 *	1 *	4 *	100% *	0.00% *	3	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	21	0	\$ 35.65	\$0	0
GMAW	Large	0.25 *	0 *	3 *	1 *	4 *	100% *	0.00% *	41	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	322	0	\$ 35.65	\$0	0
Brazing	State	0.25 *	1 *	3 *	1 *	4 *	100% *	0.00% *	20	0	\$ 35.65	\$0	0
	Local	0.25 *	1 *	1 *	1 *	4 *	100% *	0.00% *	161	0	\$ 35.65	\$0	0
Metallizing	State	0.25 *	1 *	3 *	1 *	4 *	100% *	0.00% *	4	0	\$ 35.65	\$0	0

Table 9

		NOTE TIME	JOB PEL	SHIFTS	#SAMP	4	%NOT QUART	%ABOVE PEL	#PLANTS	Hours	SUP WAGE	Item 12 Cost	Responses
	Local	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	32	0	\$ 35.65	\$0	0
<b>GOVERNMENT</b>													
SMAW	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	19	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	590	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25 *	0 *	1 *	1 *	4 †	100% *	0.00% *	0	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	8	0	\$ 35.65	\$0	0
GMAW	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	4	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	118	0	\$ 35.65	\$0	0
Brazing	State	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	2	0	\$ 35.65	\$0	0
	Local	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	59	0	\$ 35.65	\$0	0
Metallizing	State	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	1	0	\$ 35.65	\$0	0
	Local	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	12	0	\$ 35.65	\$0	0
<b>2A. Mild Steel Welding</b>													
SMAW	Large	0.25 *	0 *	1 *	1 *	4 †	100% *	0.00% *	4,740	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	4,826	0	\$ 35.65	\$0	0
GMAW	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	3,476	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	3,539	0	\$ 35.65	\$0	0
TIG	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	1,053	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	1,073	0	\$ 35.65	\$0	0
SAW	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	421	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	429	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25 *	0 *	1 *	1 *	4 †	100% *	0.00% *	105	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	107	0	\$ 35.65	\$0	0
Plasma Welding	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	105	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	107	0	\$ 35.65	\$0	0
Resistance Welding	Large	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	632	0	\$ 35.65	\$0	0
	Small	0.25 *	1 *	1 *	1 *	4 †	100% *	0.00% *	644	0	\$ 35.65	\$0	0
<b>MARITIME</b>													
SMAW	Large	0.25 *	0 *	3 *	1 *	4 †	100% *	0.00% *	37	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	2 *	1 *	4 †	100% *	0.00% *	21	0	\$ 35.65	\$0	0
GMAW	Large	0.25 *	0 *	3 *	1 *	4 †	100% *	0.00% *	53	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	2 *	1 *	4 †	100% *	0.00% *	30	0	\$ 35.65	\$0	0
TIG	Large	0.25 *	0 *	3 *	1 *	4 †	100% *	0.00% *	13	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	2 *	1 *	4 †	100% *	0.00% *	7	0	\$ 35.65	\$0	0
FCAW	Large	0.25 *	0 *	3 *	1 *	4 †	100% *	0.00% *	249	0	\$ 35.65	\$0	0
	Small	0.25 *	0 *	2 *	1 *	4 †	100% *	0.00% *	141	0	\$ 35.65	\$0	0

Table 9

		NOTE TIME	JOB PEL	SHIFTS	#SAMP	4	%NOT QUART	%ABOVE PEL	#PLANTS	Hours	SUP WAGE	Item 12 Cost	Responses
Plasma Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	8	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	5	0	\$ 35.65	\$0	0
Plasma Welding	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	3	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	2	0	\$ 35.65	\$0	0
Oxy-fuel Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	8	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	5	0	\$ 35.65	\$0	0
Air Carbon Arc Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	3	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	2	0	\$ 35.65	\$0	0
Electric Torch Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	1	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	0	0	\$ 35.65	\$0	0
Thermal Spray Tungsten Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	1	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	0	0	\$ 35.65	\$0	0
SAW	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	33	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	18	0	\$ 35.65	\$0	0
<b>CONSTRUCTION</b>													
SMAW	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	301	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	2,277	0	\$ 35.65	\$0	0
Plasma Cutting	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	4	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	30	0	\$ 35.65	\$0	0
GMAW	Large	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	60	0	\$ 35.65	\$0	0
	Small	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	455	0	\$ 35.65	\$0	0
Brazing	State	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	30	0	\$ 35.65	\$0	0
	Local	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	228	0	\$ 35.65	\$0	0
Metallizing	State	0.25	* 0	* 3	* 1	* 4	100% *	0.00% *	6	0	\$ 35.65	\$0	0
	Local	0.25	* 0	* 2	* 1	* 4	100% *	0.00% *	45	0	\$ 35.65	\$0	0
<b>Sector 3. Painting</b>													
AEROSPACE	Large	0.25	* 1	* 3	* 3	* 4	100% *	28.00% *	49	123	\$ 44.87	\$5,531	493
	Small	0.25	* 1	* 1	* 3	* 4	100% *	9.00% *	62	17	\$ 44.87	\$746	67
AUTOBODY	Large	0.25	* 1	* 3	* 3	* 4	100% *	5.00% *	326	147	\$ 44.87	\$6,585	587
	Small	0.25	* 1	* 1	* 3	* 4	100% *	5.00% *	1,436	215	\$ 44.87	\$9,663	861
COIL COATING	Large	0.25	* 1	* 3	* 3	* 4	100% *	8.00% *	100	72	\$ 44.87	\$3,219	287
	Small	0.25	* 1	* 1	* 3	* 4	100% *	8.00% *	18	4	\$ 44.87	\$195	17
MARITIME	Large	0.25	* 1	* 3	* 3	* 4	100% *	36.00% *	276	893	\$ 44.87	\$40,056	3571
	Small	0.25	* 1	* 1	* 3	* 4	100% *	36.00% *	476	514	\$ 44.87	\$23,085	2058
CONSTRUCTION	Large	0.25	* 1	* 3	* 3	* 4	100% *	22.00% *	671	1,328	\$ 44.87	\$59,606	5313
	Small	0.25	* 1	* 1	* 3	* 4	100% *	22.00% *	3,566	2,354	\$ 44.87	\$105,628	9416



Table 9

		NOTE TIME	JOB PEL	SHIFTS	#SAMP	4	%NOTQUART	%ABOVEPEL	#PLANTS	Hours	SUPWAGE	Item 12 Cost	Responses
GOVERNMENT	Large	0.25 *	1 *	3 *	3 *	4 *	100% *	12.00% *	12	13	\$ 44.87	\$566	50
	Small	0.25 *	1 *	1 *	3 *	4 *	100% *	12.00% *	647	233	\$ 44.87	\$10,446	931
Sector 4. Producers of Chromates													
ALL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	2	0	\$ 52.66	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	0	0	\$ 52.66	\$0	0
Sector 5. Chromate Pigment Procedures													
ALL	Large	0.25 *	1 *	2 *	3 *	4 *	100% *	77.00% *	2	8	\$ 51.32	\$427	33
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	1	0	\$ 51.32	\$0	0
Sector 6. CCA Producers													
ALL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	2	0	\$ 43.46	\$0	0
	Small	0.25 *	0 *	3 *	0 *	4 *	100% *	0.00% *	0	0	\$ 43.46	\$0	0
Sector 7. Chromium Catalyst Producers													
ALL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	5	0	\$ 52.66	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	0	0	\$ 52.66	\$0	0
Sector 8. Paint and Coating Producers													
ALL	Large	0.25 *	0 *	2 *	3 *	4 *	100% *	0.00% *	80	0	\$ 39.21	\$0	0
	Small	0.25 *	0 *	2 *	3 *	4 *	100% *	0.00% *	126	0	\$ 39.21	\$0	0
Sector 9. Printing Ink Producers													
ALL	Large	0.25 *	0 *	1 *	9 *	4 *	100% *	0.00% *	2	0	\$ 39.29	\$0	0
	Small	0.25 *	0 *	1 *	5 *	4 *	100% *	0.00% *	8	0	\$ 39.29	\$0	0
Sector 10. Plastic Colorant Producers and Users													
ALL	Large	0.25 *	3 *	3 *	3 *	4 *	100% *	36.00% *	81	792	\$ 43.52	\$34,468	3168
	Small	0.25 *	5 *	1 *	3 *	4 *	100% *	36.00% *	40	215	\$ 43.52	\$9,366	861
Sector 11. Plating Mixture Producers													
ALL	Large	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	6	0	\$ 39.06	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	4	0	\$ 39.06	\$0	0
Sector 13. Chromium Metal Producers													
ALL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	1	0	\$ 52.83	\$0	0
	Small	0.25 *	0 *	1 *	1 *	4 *	0% *	0.00% *	0	0	\$ 52.83	\$0	0
Sector 14. Iron and Steel Mills													
ALLOY AND STAINLESS STEEL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	34	0	\$ 52.83	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	11	0	\$ 52.83	\$0	0
CARBON STEEL	Large	0.25 *	3 *	3 *	3 *	4 *	100% *	38.00% *	102	1,042	\$ 52.83	\$55,029	4167
	Small	0.25 *	1 *	1 *	3 *	4 *	100% *	38.00% *	32	36	\$ 52.83	\$1,923	146
14B. Forging Industry													
FORGING INDUSTRY	Large	0.25 *	3 *	3 *	3 *	4 *	100% *	38.00% *	33	341	\$ 52.83	\$17,997	1363
	Small	0.25 *	1 *	1 *	3 *	4 *	100% *	38.00% *	31	36	\$ 52.83	\$1,884	143

Table 9

		NOTE TIME	JOB PEL	SHIFTS	#SAMPS	4	%NOTQUART	%ABOVEPEL	#PLANTS	Hours	SUPWAGE	Item 12 Cost	Responses
<b>Sector 15. Iron and Steel Foundries</b>													
ALL	Large	0.25 *	0 *	3 *	5 *	4 *	100% *	0.00% *	163	0	\$ 38.53	\$0	0
	Small	0.25 *	0 *	1 *	5 *	4 *	100% *	0.00% *	118	0	\$ 38.53	\$0	0
<b>Sector 17. Chromium Dye Producers</b>													
ALL	Large	0.25 *	7 *	1 *	21 *	4 *	100% *	62.00% *	3	246	\$ 51.32	\$12,625	984
	Small	0.25 *	5 *	1 *	7 *	4 *	100% *	62.00% *	1	20	\$ 51.32	\$1,002	78
<b>Sector 18. Chromium Sulfate Producers</b>													
ALL	Large	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	0	0	\$ 56.48	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	5	0	\$ 56.48	\$0	0
<b>Sector 19. Chemical Distributers</b>													
ALL	Large	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	216	0	\$ 40.75	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	1,627	0	\$ 40.75	\$0	0
<b>Sector 20. Textile Dyeing</b>													
ALL	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	0.00% *	343	0	\$ 27.18	\$0	0
	Small	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	697	0	\$ 27.18	\$0	0
<b>Sector 21. Colored Glass Producers</b>													
ALL	Large	0.25 *	0 *	3 *	12 *	4 *	25% *	0.00% *	6	0	\$ 39.30	\$0	0
	Small	0.25 *	0 *	1 *	4 *	4 *	0% *	0.00% *	20	0	\$ 39.30	\$0	0
Fiber, Flat, and Container Glass	Large	0.25 *	1 *	3 *	1 *	4 *	25% *	0.00% *	90	0	\$ 39.30	\$0	0
	Small	0.25 *	0 *	1 *	1 *	4 *	0% *	0.00% *	5	0	\$ 39.30	\$0	0
<b>Sector 22. Printing</b>													
ALL	Large	0.25 *	0 *	3 *	2 *	4 *	100% *	0.00% *	81	0	\$ 28.36	\$0	0
	Small	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	325	0	\$ 28.36	\$0	0
<b>Sector 24. Chromium Catalyst Users</b>													
Catalyst Users	Large	0.25 *	0 *	3 *	3 *	4 *	100% *	13.00% *	179	0	\$ 44.23	\$0	0
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	0	0	\$ 44.23	\$0	0
Catalyst Companies	Large	0.25 *	2 *	3 *	3 *	4 *	100% *	13.00% *	23	54	\$ 44.23	\$2,385	216
	Small	0.25 *	0 *	1 *	3 *	4 *	100% *	0.00% *	4	0	\$ 44.23	\$0	0
<b>Sector 25. Refractory Brick Producers</b>													
ALL	Large	0.25 *	0 *	1 *	15 *	4 *	100% *	0.00% *	5	0	\$ 34.92	\$0	0
	Small	0.25 *	0 *	1 *	0 *	4 *	100% *	0.00% *	0	0	\$ 34.92	\$0	0
<b>Sector 26. Woodworking</b>													
General Industry	Large	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	148	0	\$ 31.42	\$0	0
	Small	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	79	0	\$ 31.42	\$0	0
Maritime	Large	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	36	0	\$ 31.42	\$0	0
	Small	0.25 *	0 *	1 *	2 *	4 *	100% *	0.00% *	32	0	\$ 31.42	\$0	0
Construction	Large	0.25 *	1 *	1 *	2 *	4 *	100% *	0.00% *	1,162	0	\$ 31.42	\$0	0
	Small	0.25 *	1 *	1 *	2 *	4 *	100% *	0.00% *	4,650	0	\$ 31.42	\$0	0

Table 9

		NOTE	TIME	JOB	PEL	SHIFTS	#SAMP	4	%NOT	QUART	%ABOVE	PEL	#PLANTS	Hours	SUP	WAGE	Item 12	Cost	Responses
Government	Large	0.25	*	1	*	1	*	2	*	4	100%	*	12	0	\$	31.42	\$0	0	
	Small	0.25	*	1	*	1	*	2	*	4	100%	*	42	0	\$	31.42	\$0	0	
Sector 27. Solid Waste Incineration																			
General Industry	Large	0.25	*	0	*	3	*	15	*	4	100%	*	40	0	\$	37.07	\$0	0	
	Small	0.25	*	0	*	1	*	3	*	4	100%	*	48	0	\$	37.07	\$0	0	
Government	State	0.25	*	0	*	3	*	15	*	4	100%	*	0	0	\$	37.07	\$0	0	
	Local	0.25	*	0	*	1	*	3	*	4	100%	*	24	0	\$	37.07	\$0	0	
Sector 30. Superalloy Producers and Users																			
ALL	Large	0.25	*	0	*	3	*	3	*	4	100%	*	19	0	\$	38.01	\$0	0	
	Small	0.25	*	0	*	3	*	3	*	4	100%	*	0	0	\$	38.01	\$0	0	
Sector 31. Construction																			
Industrial Rehabilitation	Large	0.25	*	0	*	1	*	3	*	4	100%	*	51	0	\$	43.74	\$0	0	
	Small	0.25	*	0	*	1	*	2	*	4	100%	*	233	0	\$	43.74	\$0	0	
	State	0.25	*	0	*	1	*	2	*	4	100%	*	15	0	\$	43.74	\$0	0	
	Local	0.25	*	0	*	1	*	3	*	4	100%	*	88	0	\$	43.74	\$0	0	
Hazardous Waste-site Work	Large	0.25	*	0	*	1	*	1	*	4	100%	*	40	0	\$	43.74	\$0	0	
	Small	0.25	*	0	*	1	*	1	*	4	100%	*	170	0	\$	43.74	\$0	0	
	State	0.25	*	0	*	1	*	1	*	4	100%	*	1	0	\$	43.74	\$0	0	
Refractory Brick Restoration	Local	0.25	*	0	*	1	*	1	*	4	100%	*	239	0	\$	43.74	\$0	0	
	Large	0.25	*	1	*	1	*	1	*	4	100%	*	44	27	\$	43.74	\$1,163	106	
	Small	0.25	*	1	*	1	*	1	*	4	100%	*	175	105	\$	43.74	\$4,600	421	
<b>Total</b>												<b>75,684</b>	<b>10,529</b>	<b>\$468,618</b>	<b>42,114</b>				

Table 9a (Remand)

Employer Time and Cost to Notify Employees of Initial Monitoring Results

Hours = (NOTETIME \* JOBCAT \* SHIFTS \* #SAMPS \* #INIT \* %INITADD \* #PLANTS)

Cost = BURDEN HOURS \* NONSUPWAGE

\* NOTETIME = Time, in hours, to notify an employee of the exposure monitoring results by posting .25 hours (15 minutes).

NONSUPWAGE = Non-supervisory wage rate, \$/hr.

\* JOBCAT = Number of job categories (covering each work area)

\* SHIFTS = Number of work shifts

\* #SAMPS = Number of samples per exposure measurement

\* #INIT = Equals two, reflecting that initial monitoring will have to be conducted twice — with readings below the action level in order for the requirement of semi-annual monitoring to be waived.

\* %INITADD = Percent of plants that have not satisfied initial monitoring requirement

\* #PLANTS \* 5% = Number of plants represented by the model output \* 5%

24.17%

		NOTETIME	NONSUPWAGE	NONSUPWAGE (2003)	JOBCAT	SHIFTS	#SAMPS	#INIT	%INITADD	#PLANTS	#PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
<b>Sector 1. Electroplating</b>														
Hard Chrome	Large	( 0.25 * \$	26.61 \$	21.43	7 * 2 * 3 * 2 * 25% * 883	44 =	\$6,170	232	927					
	Small	( 0.25 * \$	26.61 \$	21.43	7 * 1 * 3 * 2 * 25% * 1,662	83 =	\$5,806	218	873					
Job Shop Chrome Plater	Large	( 0.25 * \$	26.61 \$	21.43	1 * 2 * 3 * 2 * 25% * 426	21 =	\$425	16	64					
	Small	( 0.25 * \$	26.61 \$	21.43	1 * 1 * 3 * 2 * 25% * 801	40 =	\$400	15	60					
Captive Shop Chrome Plater	Large	( 0.25 * \$	26.61 \$	21.43	1 * 2 * 3 * 2 * 25% * 580	29 =	\$579	22	87					
	Small	( 0.25 * \$	26.61 \$	21.43	1 * 1 * 3 * 2 * 25% * 1,092	55 =	\$545	20	82					
Job Shop Plater	Large	( 0.25 * \$	26.61 \$	21.43	1 * 2 * 3 * 2 * 25% * 426	21 =	\$425	16	64					
	Small	( 0.25 * \$	26.61 \$	21.43	1 * 1 * 3 * 2 * 25% * 801	40 =	\$400	15	60					
Captive Shop Plater	Large	( 0.25 * \$	26.61 \$	21.43	1 * 2 * 3 * 2 * 25% * 503	25 =	\$502	19	75					
	Small	( 0.25 * \$	26.61 \$	21.43	1 * 1 * 3 * 2 * 25% * 946	47 =	\$472	18	71					
Operator	Large	( 0.25 * \$	26.61 \$	21.43	1 * 2 * 3 * 2 * 25% * 883	44 =	\$881	33	132					
	Small	( 0.25 * \$	26.61 \$	21.43	1 * 1 * 3 * 2 * 25% * 1,662	83 =	\$829	31	125					
<b>Sector 2. Welding</b>														
<b>GENERAL INDUSTRY</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 3,535	177 =	\$3,473	133	530					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 3,962	198 =	\$1,946	74	297					
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 2,593	130 =	\$2,548	97	389					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 2,905	145 =	\$1,427	54	218					
TIG	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 786	39 =	\$772	29	118					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 880	44 =	\$432	17	66					
SAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 314	16 =	\$309	12	47					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 352	18 =	\$173	7	26					
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 78	4 =	\$77	3	12					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 88	4 =	\$43	2	7					
Plasma Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 78	4 =	\$77	3	12					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 88	4 =	\$43	2	7					
Resistance Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 472	24 =	\$463	18	71					
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 529	26 =	\$260	10	40					
<b>MARITIME</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 17	1 =	\$26	1	4					

Table 9a (Remand)

		NOTE TIME	NONSUPE WAGE	NONSUPE WAGE (2003)	JOB CAT	SHIFTS	# SAMP	# INIT	% INIT ADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 10						0 =	\$9	0	1
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 24						1 =	\$36	1	5
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 14						1 =	\$13	1	2
TIG	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 6						0 =	\$9	0	1
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 3						0 =	\$3	0	0
FCAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 116						6 =	\$171	7	26
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 66						3 =	\$65	2	10
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 4						0 =	\$6	0	1
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 2						0 =	\$2	0	0
Plasma Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 2						0 =	\$3	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 1						0 =	\$1	0	0
Oxy-fuel Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 4						0 =	\$6	0	1
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 2						0 =	\$2	0	0
Air Carbon Arc Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 2						0 =	\$3	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 1						0 =	\$1	0	0
Electric Torch Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 0						0 =	\$0	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 0						0 =	\$0	0	0
Thermal Spray Tungsten Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 0						0 =	\$0	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 0						0 =	\$0	0	0
SAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 15						1 =	\$23	1	3
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 9						0 =	\$9	0	1
<b>CONSTRUCTION</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 25% * 201						10 =	\$99	4	15
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 1,609						80 =	\$263	10	40
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 25% * 3						0 =	\$1	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 21						1 =	\$3	0	1
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 25% * 41						2 =	\$20	1	3
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 322						16 =	\$53	2	8
Brazing	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 25% * 20						1 =	\$10	0	2
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 161						8 =	\$26	1	4
Metallizing	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 25% * 4						0 =	\$2	0	0
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 32						2 =	\$5	0	1
<b>GOVERNMENT</b>														
SMAW	State	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 19						1 =	\$3	0	0
	Local	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 590						30 =	\$97	4	15

Table 9a (Remand)

		NOTE TIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOB CAT	SHIFTS	# SAMP	# INIT	% INITADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
Plasma Cutting	State	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 0	0	0	=	\$0	0	0			
	Local	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 8	0	=	\$1	0	0				
GMAW	State	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 4	0	=	\$1	0	0				
	Local	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 118	6	=	\$19	1	3				
Brazing	State	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 2	0	=	\$0	0	0				
	Local	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 59	3	=	\$10	0	1				
Metallizing	State	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 1	0	=	\$0	0	0				
	Local	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 1 * 2 * 25% * 12	1	=	\$2	0	0				
<b>Sector 2. Mild Steel Welding</b>														
<b>GENERAL INDUSTRY</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 4,740	237	=	\$4,657	178	711				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 4,826	241	=	\$2,371	90	362				
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 3,476	174	=	\$3,416	130	521				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 3,539	177	=	\$1,739	66	265				
TIG	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 1,053	53	=	\$1,035	39	158				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 1,073	54	=	\$527	20	80				
SAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 421	21	=	\$414	16	63				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 429	21	=	\$211	8	32				
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 105	5	=	\$103	4	16				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 107	5	=	\$53	2	8				
Plasma Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 105	5	=	\$103	4	16				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 107	5	=	\$53	2	8				
Resistance Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 2 * 2 * 25% * 632	32	=	\$621	24	95				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1 * 3 * 2 * 25% * 644	32	=	\$316	12	48				
<b>MARITIME</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 37	2	=	\$54	2	8				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 21	1	=	\$21	1	3				
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 53	3	=	\$78	3	12				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 30	1	=	\$29	1	4				
TIG	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 13	1	=	\$19	1	3				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 7	0	=	\$7	0	1				
FCAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 249	12	=	\$367	14	56				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 141	7	=	\$139	5	21				
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 8	0	=	\$11	0	2				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 5	0	=	\$5	0	1				
Plasma Welding	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 3	0	=	\$4	0	1				
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 2	0	=	\$2	0	0				
Oxy-fuel Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 8	0	=	\$11	0	2				
Air Carbon Arc Cutting	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 5	0	=	\$5	0	1				
	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 3	0	=	\$4	0	1				
Electric Torch	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2 * 1 * 2 * 75% * 2	0	=	\$2	0	0				
	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3 * 1 * 2 * 75% * 1	0	=	\$1	0	0				

Table 9a (Remand)

		NOTE TIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOB CAT	SHIFTS	# SAMP	# INIT	% INIT ADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
Electric Torch Cutting	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2	1 * 2	75%	0	0	=	\$0	0	0	
Thermal Spray Tungsten Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	75%	1	0	=	\$1	0	0	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2	1 * 2	75%	0	0	=	\$0	0	0	
SAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	75%	33	2	=	\$48	2	7	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 2	1 * 2	75%	18	1	=	\$18	1	3	
<b>CONSTRUCTION</b>														
SMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	25%	301	15	=	\$148	6	23	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1	1 * 2	25%	2,277	114	=	\$373	14	57	
Plasma Cutting	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	25%	4	0	=	\$2	0	0	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1	1 * 2	25%	30	1	=	\$5	0	1	
GMAW	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	25%	60	3	=	\$29	1	4	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1	1 * 2	25%	455	23	=	\$75	3	11	
Brazing	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	25%	30	1	=	\$15	1	2	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1	1 * 2	25%	228	11	=	\$37	1	6	
Metallizing	Large	( 0.25 * \$	26.20 \$	21.10	1 * 3	1 * 2	25%	6	0	=	\$3	0	0	
	Small	( 0.25 * \$	26.20 \$	21.10	1 * 1	1 * 2	25%	45	2	=	\$7	0	1	
<b>SECTOR 3. PAINTING</b>														
General Industry (Aerospace)	Large	( 0.25 * \$	33.07 \$	26.63	2 * 3	3 * 2	25%	49	2	=	\$182	6	22	
	Small	( 0.25 * \$	33.07 \$	26.63	1 * 1	3 * 2	25%	62	3	=	\$38	1	5	
General Industry (Autobody)	Large	( 0.25 * \$	33.07 \$	26.63	2 * 2	3 * 2	25%	326	16	=	\$809	24	98	
	Small	( 0.25 * \$	33.07 \$	26.63	2 * 1	3 * 2	25%	1,436	72	=	\$1,780	54	215	
General Industry (Coil Coating)	Large	( 0.25 * \$	33.07 \$	26.63	2 * 2	3 * 2	25%	100	5	=	\$247	7	30	
	Small	( 0.25 * \$	33.07 \$	26.63	2 * 1	3 * 2	25%	18	1	=	\$22	1	3	
Maritime	Large	( 0.25 * \$	33.07 \$	26.63	3 * 3	1 * 2	25%	276	14	=	\$512	15	62	
	Small	( 0.25 * \$	33.07 \$	26.63	3 * 1	1 * 2	25%	476	24	=	\$295	9	36	
Construction	Large	( 0.25 * \$	33.07 \$	26.63	3 * 3	1 * 2	25%	671	34	=	\$1,248	38	151	
	Small	( 0.25 * \$	33.07 \$	26.63	3 * 1	1 * 2	25%	3,566	178	=	\$2,211	67	267	
Government	State	( 0.25 * \$	33.07 \$	26.63	2 * 3	1 * 2	25%	12	1	=	\$14	0	2	
	Local	( 0.25 * \$	33.07 \$	26.63	2 * 1	1 * 2	25%	647	32	=	\$267	8	32	
<b>SECTOR 4. Producers of Chromates</b>														
ALL	Large	( 0.25 * \$	38.68 \$	31.15	4 * 3	3 * 2	100%	2	0	=	\$67	2	7	
	Small	( 0.25 * \$	38.68 \$	31.15	0 * 1	3 * 2	0%	0	0	=	\$0	0	0	
<b>SECTOR 5. Chromate Pigment Procedures</b>														
ALL	Large	( 0.25 * \$	37.70 \$	30.36	9 * 2	3 * 2	25%	2	0	=	\$23	1	2	
	Small	( 0.25 * \$	37.70 \$	30.36	1 * 1	3 * 2	25%	1	0	=	\$1	0	0	
<b>SECTOR 6. CCA Producers</b>														
ALL	Large	( 0.25 * \$	31.94 \$	25.72	4 * 3	3 * 2	25%	2	0	=	\$17	1	2	
	Small	( 0.25 * \$	31.94 \$	25.72	0 * 3	0 * 2	0%	0	0	=	\$0	0	0	
<b>SECTOR 7. Chromium Catalyst Producers</b>														
ALL	Large	( 0.25 * \$	38.68 \$	31.15	14 * 3	3 * 2	25%	5	0	=	\$146	4	15	
	Small	( 0.25 * \$	38.68 \$	31.15	0 * 1	3 * 2	0%	0	0	=	\$0	0	0	
<b>SECTOR 8. Paint and Coating Producers</b>														

Table 9a (Remand)

		NOTE TIME	NONSUPE WAGE	NONSUPE WAGE (2003)	JOB CAT	SHIFTS	# SAMPS	# INIT	% INIT ADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
ALL	Large	( 0.25 * \$	28.81 \$	23.20	4 *	2 *	3 *	2 *	25% *	80	4 =	\$348	12	48
	Small	( 0.25 * \$	28.81 \$	23.20	4 *	2 *	3 *	2 *	25% *	126	6 =	\$546	19	76
SECTOR 9. Printing Ink Producers														
ALL	Large	( 0.25 * \$	28.86 \$	23.24	5 *	1 *	9 *	2 *	100% *	2	0 =	\$81	3	11
	Small	( 0.25 * \$	28.86 \$	23.24	3 *	1 *	5 *	2 *	100% *	8	0 =	\$90	3	12
SECTOR 10. Plastic Colorant Producers and Users														
ALL	Large	( 0.25 * \$	31.99 \$	25.76	4 *	3 *	3 *	2 *	25% *	81	4 =	\$586	18	73
	Small	( 0.25 * \$	31.99 \$	25.76	1 *	1 *	3 *	2 *	25% *	40	2 =	\$24	1	3
SECTOR 11. Plating Mixture Producers														
ALL	Large	( 0.25 * \$	28.71 \$	23.12	3 *	1 *	3 *	2 *	75% *	6	0 =	\$27	1	4
	Small	( 0.25 * \$	28.71 \$	23.12	3 *	1 *	3 *	2 *	75% *	4	0 =	\$18	1	3
SECTOR 13. Chromium Metal Producers														
ALL	Large	( 0.25 * \$	38.80 \$	31.25	16 *	3 *	3 *	2 *	100% *	1	0 =	\$127	3	13
	Small	( 0.25 * \$	38.80 \$	31.25	0 *	1 *	1 *	2 *	0% *	0	0 =	\$0	0	0
SECTOR 14. Iron and Steel Mills														
Alloy Stainless Steel	Large	( 0.25 * \$	38.80 \$	31.25	8 *	3 *	3 *	2 *	75% *	34	2 =	\$1,773	46	183
	Small	( 0.25 * \$	38.80 \$	31.25	4 *	1 *	3 *	2 *	75% *	11	1 =	\$95	2	10
Carbon Steel	Large	( 0.25 * \$	38.80 \$	31.25	8 *	3 *	3 *	2 *	75% *	102	5 =	\$5,318	137	548
	Small	( 0.25 * \$	38.80 \$	31.25	4 *	1 *	3 *	2 *	75% *	32	2 =	\$279	7	29
14.B Forging														
Forging Industry	Large	( 0.25 * \$	38.80 \$	31.25	5 *	1 *	3 *	2 *	75% *	33	2 =	\$362	9	37
	Small	( 0.25 * \$	38.80 \$	31.25	2 *	1 *	1 *	2 *	75% *	31	2 =	\$46	1	5
SECTOR 15. Iron and Steel Foundries														
ALL	Large	( 0.25 * \$	28.31 \$	22.80	9 *	3 *	5 *	2 *	25% *	163	8 =	\$3,887	137	549
	Small	( 0.25 * \$	28.31 \$	22.80	5 *	1 *	5 *	2 *	25% *	118	6 =	\$523	18	74
SECTOR 17. Chromium Dye Producers														
ALL	Large	( 0.25 * \$	37.70 \$	30.36	7 *	1 *	21 *	2 *	25% *	3	0 =	\$93	2	10
	Small	( 0.25 * \$	37.70 \$	30.36	5 *	1 *	7 *	2 *	25% *	1	0 =	\$7	0	1
SECTOR 18. Chromium Sulfate Producers														
ALL	Large	( 0.25 * \$	41.50 \$	33.42	0 *	1 *	3 *	2 *	0% *	0	0 =	\$0	0	0
	Small	( 0.25 * \$	41.50 \$	33.42	2 *	1 *	3 *	2 *	100% *	5	0 =	\$30	1	3
SECTOR 19. Chemical Distributors														
ALL	Large	( 0.25 * \$	29.92 \$	24.10	1 *	1 *	3 *	2 *	75% *	216	11 =	\$363	12	49
	Small	( 0.25 * \$	29.92 \$	24.10	1 *	1 *	3 *	2 *	75% *	1,627	81 =	\$2,739	92	366



Table 9a (Remand)

		NOTE	TIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOB	CAT	SHIFTS	# SAMP	# INIT	% INITADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES						
<b>SECTOR 20. Textile Dyeing</b>																						
ALL	Large	(	0.25	* \$	19.97	\$	16.08	3	*	3	*	3	*	2	* 75%	*	343	17	=	\$3,472	174	696
	Small	(	0.25	* \$	19.97	\$	16.08	2	*	1	*	2	*	2	* 75%	*	697	35	=	\$1,044	52	209
<b>SECTOR 21. Colored Glass Producers</b>																						
General Industry	Large	(	0.25	* \$	28.87	\$	23.25	3	*	3	*	12	*	2	* 75%	*	6	0	=	\$368	13	51
	Small	(	0.25	* \$	28.87	\$	23.25	2	*	1	*	4	*	2	* 75%	*	20	1	=	\$86	3	12
Fiber, Flat and Container Glass	Large	(	0.25	* \$	28.87	\$	23.25	3	*	3	*	12	*	2	* 75%	*	90	5	=	\$5,270	183	730
	Small	(	0.25	* \$	28.87	\$	23.25	2	*	1	*	4	*	2	* 75%	*	5	0	=	\$23	1	3
<b>SECTOR 22. Printing</b>																						
ALL	Large	(	0.25	* \$	20.85	\$	16.79	3	*	3	*	2	*	2	* 75%	*	81	4	=	\$572	27	110
	Small	(	0.25	* \$	20.85	\$	16.79	2	*	1	*	2	*	2	* 75%	*	325	16	=	\$509	24	98
<b>SECTOR 24. Chromium Catalyst Users</b>																						
Catalyst Users	Large	(	0.25	* \$	32.51	\$	26.18	2	*	3	*	3	*	2	* 75%	*	179	9	=	\$1,962	60	241
	Small	(	0.25	* \$	32.51	\$	26.18	0	*	1	*	3	*	2	* 0%	*	0	0	=	\$0	0	0
Chromium Catalyst Service Companies	Large	(	0.25	* \$	32.51	\$	26.18	2	*	3	*	3	*	2	* 75%	*	23	1	=	\$253	8	31
	Small	(	0.25	* \$	32.51	\$	26.18	0	*	1	*	3	*	2	* 0%	*	4	0	=	\$0	0	0
<b>SECTOR 25. Refractory Brick Producers</b>																						
ALL	Large	(	0.25	* \$	25.64	\$	20.65	9	*	1	*	15	*	2	* 75%	*	5	0	=	\$350	14	55
	Small	(	0.25	* \$	25.64	\$	20.65	0	*	1	*	0	*	2	* 75%	*	0	0	=	\$0	0	0
<b>SECTOR 26. Woodworking</b>																						
General Industry	Large	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	148	7	=	\$64	3	11
	Small	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	79	4	=	\$34	1	6
Maritime	Large	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	36	2	=	\$16	1	3
	Small	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	32	2	=	\$14	1	2
Construction	Large	(	0.25	* \$	32.11	\$	25.86	1	*	1	*	1	*	2	* 75%	*	1,162	58	=	\$699	22	87
	Small	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	4,650	233	=	\$2,013	87	349
Government	State	(	0.25	* \$	32.11	\$	25.86	1	*	1	*	1	*	2	* 75%	*	12	1	=	\$7	0	1
	Local	(	0.25	* \$	23.08	\$	18.59	1	*	1	*	1	*	2	* 75%	*	42	2	=	\$18	1	3
<b>SECTOR 27. Solid Waste Incineration</b>																						
General Industry	Large	(	0.25	* \$	27.23	\$	21.93	6	*	3	*	15	*	2	* 75%	*	40	2	=	\$5,490	202	807
	Small	(	0.25	* \$	27.23	\$	21.93	6	*	1	*	3	*	2	* 75%	*	48	2	=	\$439	16	65
Government	State	(	0.25	* \$	27.23	\$	21.93	0	*	3	*	15	*	2	* 75%	*	0	0	=	\$0	0	0
	Local	(	0.25	* \$	27.23	\$	21.93	6	*	1	*	3	*	2	* 75%	*	24	1	=	\$220	8	32
<b>SECTOR 30. Superalloy Producers and Users</b>																						
ALL	Large	(	0.25	* \$	27.93	\$	22.49	12	*	3	*	3	*	2	* 75%	*	19	1	=	\$1,075	38	154
	Small	(	0.25	* \$	27.93	\$	22.49	0	*	3	*	3	*	2	* 0%	*	0	0	=	\$0	0	0

Table 9a (Remand)

		NOTETIME	NONSUPEWAGE	NONSUPEWAGE (2003)	JOB CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	# PLANTS * 5%	Item 12 COSTS	HOURS	RESPONSES
<b>SECTOR 31. Construction - Cement Workers</b>														
Industrial rehabilitation	Large	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 3 * 2 * 75% * 51	3	=	\$368	11	46				
	Small	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 2 * 2 * 75% * 233	12	=	\$1,125	35	140				
	State	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 100% * 15	1	=	\$12	0	1				
	Local	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 100% * 88	4	=	\$70	2	9				
Hazardous Waste-site Work	Large	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 75% * 40	2	=	\$24	1	3				
	Small	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 75% * 170	8	=	\$102	3	13				
	State	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 75% * 1	0	=	\$0	0	0				
Refractory Brick Restoration	Large	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 0% * 44	2	=	\$0	0	0				
	Small	( 0.25 * \$	32.13 \$	25.88	1 * 1 * 1 * 2 * 0% * 175	9	=	\$0	0	0				
Cement Workers	Large	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 3 * 2 * 75% * 9,592	480	=	\$69,351	2158	8633				
	Small	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 2 * 2 * 75% * 76,673	3,834	=	\$369,581	11501	46004				
	State	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 3 * 2 * 75% * 23	1	=	\$167	5	21				
	Local	( 0.25 * \$	32.13 \$	25.88	4 * 1 * 2 * 2 * 75% * 616	31	=	\$2,968	92	369				
<b>SECTOR 32. Pre-Cast Concrete Products</b>														
ALL	Large	( 0.25 * \$	27.58 \$	22.21	7 * 1 * 11 * 2 * 75% * 1,330	66	=	\$52,937	1920	7678				
	Small	( 0.25 * \$	27.58 \$	22.21	5 * 1 * 6 * 2 * 75% * 2,187	109	=	\$33,928	1230	4921				
<b>SECTOR 32A. Ready Mix Concrete</b>														
ALL	Large	( 0.25 * \$	27.58 \$	22.21	7 * 1 * 11 * 2 * 75% * 1,994	100	=	\$79,405	2879	11517				
	Small	( 0.25 * \$	27.58 \$	22.21	5 * 1 * 6 * 2 * 75% * 4,653	233	=	\$72,187	2618	10470				
<b>Total</b>								<b>172,752</b>	<b>8,638</b>	<b>\$779,227</b>	<b>25,971</b>	<b>103,882</b>		

Table 9b

**Employer Time and Cost to Notify Employees of Semi-Annual Monitoring Results**

COST = BURDEN HOURS \* NON SUPEWAGE

HOURS = (NOTETIME \* NONSUPWAGE \* JOBAL \* SHIFTS \* #SAMPS \* 2 \* %NOTSEMI \* %ABOVEAL \* #PLANTS)

Variables

\* NOTETIME = Time, in hours, to notify an employee of the exposure monitoring results by posting .25 hours (15 mintues).

\* NONSUPEWAGE = Non-supervisory wage rate. \$/hr.

\* JOBAL = Number of job categories exposed at or above the AL

\* SHIFTS = Number of work shifts.

\* #SAMPS = Number of samples per exposure measurement

\* 2 = # times per year (semi-annually)

\* %NOTSEMI = Percent of plants not performing semi-annual monitoring requirements.

\* %ABOVEAL = Percent of plants that have an employee in at least one job category above the AL.

\* #PLANTS = Number of plants represented by the model input.

24.17%

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
<b>Sector 1. Electroplating</b>													
Hard Chrome	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 49.00% * 883 ) =								883	\$34,551	1,298	5194
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 49.00% * 1,662 ) =								1,662	\$32,513	1,222	4887
Job Shop Chrome Plater	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 11.00% * 426 ) =								426	\$3,737	140	562
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 11.00% * 801 ) =								801	\$3,516	132	529
Captive Shop Chrome Plater	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 14.00% * 580 ) =								580	\$6,484	244	975
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 14.00% * 1,092 ) =								1,092	\$6,102	229	917
Job Shop Plater	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 10.00% * 426 ) =								426	\$3,397	128	511
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 10.00% * 801 ) =								801	\$3,196	120	480
Captive Shop Plater	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 13.00% * 503 ) =								503	\$5,216	196	784
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 13.00% * 946 ) =								946	\$4,909	184	738
Operator	Large	( 0.25 * \$ 26.61 * 1 * 2 * 3 * 2 * 100% * 16.00% * 883 ) =								883	\$11,282	424	1696
	Small	( 0.25 * \$ 26.61 * 1 * 1 * 3 * 2 * 100% * 16.00% * 1,662 ) =								1,662	\$10,616	399	1596
<b>Sector 2. Welding</b>													
<b>General Industry</b>													
SMAW	Large	( 0.25 * \$ 26.20 * 1 * 3 * 2 * 2 * 100% * 0.92% * 3,535 ) =								3,535	\$2,556	98	390
	Small	( 0.25 * \$ 26.20 * 1 * 1 * 3 * 2 * 100% * 0.92% * 3,962 ) =								3,962	\$1,432	55	219
GMAW	Large	( 0.25 * \$ 26.20 * 1 * 3 * 2 * 2 * 100% * 0.73% * 2,593 ) =								2,593	\$1,488	57	227
	Small	( 0.25 * \$ 26.20 * 1 * 1 * 3 * 2 * 100% * 0.73% * 2,905 ) =								2,905	\$834	32	127
TIG	Large	( 0.25 * \$ 26.20 * 1 * 3 * 2 * 2 * 100% * 0.00% * 786 ) =								786	\$0	0	0
	Small	( 0.25 * \$ 26.20 * 1 * 1 * 3 * 2 * 100% * 0.00% * 880 ) =								880	\$0	0	0
SAW	Large	( 0.25 * \$ 26.20 * 0 * 3 * 2 * 2 * 100% * 0.00% * 314 ) =								314	\$0	0	0
	Small	( 0.25 * \$ 26.20 * 0 * 1 * 3 * 2 * 100% * 0.00% * 352 ) =								352	\$0	0	0
Plasma Cutting	Large	( 0.25 * \$ 26.20 * 1 * 3 * 2 * 2 * 100% * 0.00% * 78 ) =								78	\$0	0	0
	Small	( 0.25 * \$ 26.20 * 1 * 1 * 3 * 2 * 100% * 0.00% * 88 ) =								88	\$0	0	0

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
Plasma Welding	Large	( 0.25 * \$	26.20 * 1	* 3 * 2 * 100% * 0.00% * 78 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 1 * 3 * 2 * 100% * 0.00% * 88 ) =						\$0	0	0	
Resistance Welding	Large	( 0.25 * \$	26.20 * 1	* 3 * 2 * 100% * 0.00% * 472 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 1 * 3 * 2 * 100% * 0.00% * 529 ) =						\$0	0	0	
<b>MARITIME</b>													
SMAW	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 17 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 10 ) =						\$0	0	0	
GMAW	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 24 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 14 ) =						\$0	0	0	
TIG	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 6 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 3 ) =						\$0	0	0	
FCAW	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 116 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 66 ) =						\$0	0	0	
Plasma Cutting	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 4 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 2 ) =						\$0	0	0	
Plasma Welding	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 2 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 1 ) =						\$0	0	0	
Oxy-fuel Cutting	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 4 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 2 ) =						\$0	0	0	
Air Carbon Arc Cutting	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 2 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 2 * 1 * 2 * 100% * 0.00% * 1 ) =						\$0	0	0	
Electric Torch Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 0 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 0 ) =						\$0	0	0	
Thermal Spray Tungsten Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 0 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 0 ) =						\$0	0	0	
SAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 15 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 9 ) =						\$0	0	0	
<b>CONSTRUCTION</b>													
SMAW	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 201 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 1,609 ) =						\$0	0	0	
Plasma Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 3 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 21 ) =						\$0	0	0	

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
GMAW	Large	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 41 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 322 ) =						\$0	0	0	
Brazing	State	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 20 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 161 ) =						\$0	0	0	
Metallizing	State	( 0.25 * \$	26.20 * 1	* 3 * 1 * 2 * 100% * 0.00% * 4 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 32 ) =						\$0	0	0	
<b>GOVERNMENT</b>													
SMAW	State	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 19 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 590 ) =						\$0	0	0	
Plasma Cutting	State	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 0 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 8 ) =						\$0	0	0	
GMAW	State	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 4 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 118 ) =						\$0	0	0	
Brazing	State	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 2 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 59 ) =						\$0	0	0	
Metallizing	State	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 1 ) =						\$0	0	0	
	Local	( 0.25 * \$	26.20 * 1	* 1 * 1 * 2 * 100% * 0.00% * 12 ) =						\$0	0	0	
<b>Sector 2. Mild Steel Welding GENERAL INDUSTRY</b>													
SMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 4,740 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 4,826 ) =						\$0	0	0	
GMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 3,476 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 3,539 ) =						\$0	0	0	
TIG	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 1,053 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 1,073 ) =						\$0	0	0	
SAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 421 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 429 ) =						\$0	0	0	
Plasma Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 105 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 107 ) =						\$0	0	0	
Plasma Welding	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 105 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 107 ) =						\$0	0	0	
Resistance Welding	Large	( 0.25 * \$	26.20 * 0	* 3 * 2 * 2 * 100% * 0.00% * 632 ) =						\$0	0	0	
	Small	( 0.25 * \$	26.20 * 0	* 1 * 3 * 2 * 100% * 0.00% * 644 ) =						\$0	0	0	

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
<b>MARITIME</b>													
SMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 37 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 21 ) =							\$0	0	0
GMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 53 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 30 ) =							\$0	0	0
TIG	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 13 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 7 ) =							\$0	0	0
FCAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 249 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 141 ) =							\$0	0	0
Plasma Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 8 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 5 ) =							\$0	0	0
Plasma Welding	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 3 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 2 ) =							\$0	0	0
Oxy-fuel Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 8 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 5 ) =							\$0	0	0
Air Carbon Arc Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 3 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 2 ) =							\$0	0	0
Electric Torch Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 1 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 0 ) =							\$0	0	0
Thermal Spray Tungsten Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 1 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 0 ) =							\$0	0	0
SAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 33 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 2 * 1 * 2 * 100% * 0.00% * 18 ) =							\$0	0	0
<b>CONSTRUCTION</b>													
SMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 301 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 1 * 1 * 2 * 100% * 0.00% * 2,277 ) =							\$0	0	0
Plasma Cutting	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 4 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 1 * 1 * 2 * 100% * 0.00% * 30 ) =							\$0	0	0
GMAW	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 60 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 1 * 1 * 2 * 100% * 0.00% * 455 ) =							\$0	0	0
Brazing	Large	( 0.25 * \$	26.20 * 0	* 3 * 1 * 2 * 100% * 0.00% * 30 ) =							\$0	0	0
	Small	( 0.25 * \$	26.20 * 0	* 1 * 1 * 2 * 100% * 0.00% * 228 ) =							\$0	0	0

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
Metallizing	Large	( 0.25 * \$ 26.20 * 0 * 3 * 1 * 2 * 100% * 0.00% * 6 ) =									\$0	0	0
	Small	( 0.25 * \$ 26.20 * 0 * 1 * 1 * 2 * 100% * 0.00% * 45 ) =									\$0	0	0
SECTOR 3. PAINTING													
AEROSPACE	Large	( 0.25 * \$ 33.07 * 1 * 3 * 3 * 2 * 100% * 28.00% * 49 ) =									\$2,038	62	247
	Small	( 0.25 * \$ 33.07 * 1 * 1 * 3 * 2 * 100% * 9.00% * 62 ) =									\$275	8	33
General Industry (Autobody)	Large	( 0.25 * \$ 33.07 * 1 * 1 * 1 * 2 * 100% * 5.00% * 326 ) =									\$270	8	33
	Small	( 0.25 * \$ 33.07 * 1 * 1 * 1 * 2 * 100% * 5.00% * 1,436 ) =									\$1,187	36	144
General Industry (Coil Coating)	Large	( 0.25 * \$ 33.07 * 1 * 2 * 3 * 2 * 100% * 8.00% * 100 ) =									\$791	24	96
	Small	( 0.25 * \$ 33.07 * 1 * 1 * 3 * 2 * 100% * 8.00% * 18 ) =									\$72	2	9
Maritime	Large	( 0.25 * \$ 33.07 * 2 * 3 * 1 * 2 * 100% * 36.00% * 276 ) =									\$9,839	298	1190
	Small	( 0.25 * \$ 33.07 * 0 * 1 * 1 * 2 * 100% * 36.00% * 476 ) =									\$0	0	0
Construction	Large	( 0.25 * \$ 33.07 * 1 * 3 * 1 * 2 * 100% * 22.00% * 671 ) =									\$7,320	221	886
	Small	( 0.25 * \$ 33.07 * 1 * 1 * 1 * 2 * 100% * 22.00% * 3,566 ) =									\$12,972	392	1569
Government	State	( 0.25 * \$ 33.07 * 1 * 3 * 1 * 2 * 100% * 12.00% * 12 ) =									\$70	2	8
	Local	( 0.25 * \$ 33.07 * 1 * 1 * 1 * 2 * 100% * 12.00% * 647 ) =									\$1,283	39	155
SECTOR 4. Producers of Chromates													
ALL	Large	( 0.25 * \$ 38.68 * 3 * 3 * 3 * 2 * 100% * 45.00% * 2 ) =									\$450	12	47
	Small	( 0.25 * \$ 38.68 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
SECTOR 5. Chromate Pigment Procedures													
ALL	Large	( 0.25 * \$ 37.70 * 5 * 2 * 3 * 2 * 100% * 71.00% * 2 ) =									\$722	19	77
	Small	( 0.25 * \$ 37.70 * 1 * 1 * 3 * 2 * 100% * 50.00% * 1 ) =									\$25	1	3
SECTOR 6. CCA Producers													
ALL	Large	( 0.25 * \$ 31.94 * 1 * 3 * 3 * 2 * 100% * 33.00% * 2 ) =									\$112	4	14
	Small	( 0.25 * \$ 31.94 * 0 * 3 * 0 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
SECTOR 7. Chromium Catalyst Producers													
ALL	Large	( 0.25 * \$ 38.68 * 6 * 3 * 3 * 2 * 100% * 100.00% * 5 ) =									\$5,000	129	517
	Small	( 0.25 * \$ 38.68 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
SECTOR 8. Paint and Coating Producers													
ALL	Large	( 0.25 * \$ 28.81 * 1 * 2 * 3 * 2 * 100% * 13.00% * 80 ) =									\$904	31	125
	Small	( 0.25 * \$ 28.81 * 1 * 2 * 3 * 2 * 100% * 13.00% * 126 ) =									\$1,420	49	197
SECTOR 9. Printing Ink Producers													
ALL	Large	( 0.25 * \$ 28.86 * 3 * 1 * 9 * 2 * 100% * 69.00% * 2 ) =									\$671	23	93
	Small	( 0.25 * \$ 28.86 * 2 * 1 * 5 * 2 * 100% * 69.00% * 8 ) =									\$829	29	115
SECTOR 10. Plastic Colorant Producers and Users													
ALL	Large	( 0.25 * \$ 31.99 * 2 * 3 * 3 * 2 * 100% * 51.00% * 81 ) =									\$11,962	374	1496
	Small	( 0.25 * \$ 31.99 * 2 * 1 * 3 * 2 * 100% * 51.00% * 40 ) =									\$1,950	61	244
SECTOR 11. Plating Mixture Producers													

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
ALL	Large	( 0.25 * \$ 28.71 * 1 * 1 * 3 * 2 * 100% * 100.00% * 6 ) =									\$243	8	34
	Small	( 0.25 * \$ 28.71 * 1 * 1 * 3 * 2 * 100% * 100.00% * 4 ) =									\$162	6	23
SECTOR 13. Chromium Metal Producers													
ALL	Large	( 0.25 * \$ 38.80 * 2 * 3 * 3 * 2 * 100% * 100.00% * 1 ) =									\$317	8	33
	Small	( 0.25 * \$ 38.80 * 0 * 1 * 1 * 2 * 0% * 0.00% * 0 ) =									\$0	0	0
SECTOR 14. Iron and Steel Mills													
Alloy and Stainless Steel	Large	( 0.25 * \$ 38.80 * 3 * 3 * 3 * 2 * 100% * 38.00% * 34 ) =									\$6,737	174	694
	Small	( 0.25 * \$ 38.80 * 1 * 1 * 3 * 2 * 100% * 38.00% * 11 ) =									\$240	6	25
Carbon Steel	Large	( 0.25 * \$ 38.80 * 0 * 3 * 3 * 2 * 100% * 0.00% * 102 ) =									\$0	0	0
	Small	( 0.25 * \$ 38.80 * 0 * 1 * 1 * 2 * 100% * 0.00% * 32 ) =									\$0	0	0
SECTOR 14B. Forging Industry													
Reshaping	Large	( 0.25 * \$ 38.80 * 4 * 1 * 3 * 2 * 100% * 63.00% * 33 ) =									\$4,870	126	502
	Small	( 0.25 * \$ 38.80 * 2 * 1 * 3 * 2 * 100% * 63.00% * 31 ) =									\$2,295	59	237
SECTOR 15. Iron and Steel Foundries													
ALL	Large	( 0.25 * \$ 28.31 * 6 * 3 * 5 * 2 * 100% * 100.00% * 163 ) =									\$207,294	7,322	29289
	Small	( 0.25 * \$ 28.31 * 5 * 1 * 5 * 2 * 100% * 100.00% * 118 ) =									\$41,878	1,479	5917
SECTOR 17. Chromium Dye Producers													
ALL	Large	( 0.25 * \$ 37.70 * 6 * 1 * 21 * 2 * 100% * 38.00% * 3 ) =									\$2,436	65	258
	Small	( 0.25 * \$ 37.70 * 6 * 1 * 7 * 2 * 100% * 38.00% * 1 ) =									\$271	7	29
SECTOR 18. Chromium Sulfate Producers													
ALL	Large	( 0.25 * \$ 41.50 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
	Small	( 0.25 * \$ 41.50 * 1 * 1 * 3 * 2 * 100% * 27.00% * 5 ) =									\$80	2	8
SECTOR 19. Chemical Distributors													
ALL	Large	( 0.25 * \$ 29.92 * 0 * 1 * 3 * 2 * 100% * 0.00% * 216 ) =									\$0	0	0
	Small	( 0.25 * \$ 29.92 * 0 * 1 * 3 * 2 * 100% * 0.00% * 1,627 ) =									\$0	0	0
SECTOR 20. Textile Dyeing													
ALL	Large	( 0.25 * \$ 19.97 * 0 * 3 * 3 * 2 * 100% * 0.00% * 343 ) =									\$0	0	0
	Small	( 0.25 * \$ 19.97 * 0 * 1 * 2 * 2 * 100% * 0.00% * 697 ) =									\$0	0	0
SECTOR 21. Colored Glass Producers													
General Industry	Large	( 0.25 * \$ 28.87 * 1 * 3 * 12 * 2 * 100% * 25.00% * 6 ) =									\$817	28	113
	Small	( 0.25 * \$ 28.87 * 0 * 1 * 4 * 2 * 100% * 0.00% * 20 ) =									\$0	0	0



Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
Fiber, Flat, Container Glass	Large	( 0.25 * \$ 28.87 * 3 * 1 * 1 * 2 * 100% * 20.00% * 90 ) =									\$781	27	108
	Small	( 0.25 * \$ 28.87 * 0 * 1 * 1 * 2 * 100% * 0.00% * 5 ) =									\$0	0	0
SECTOR 22. Printing													
ALL	Large	( 0.25 * \$ 20.85 * 0 * 3 * 2 * 2 * 100% * 0.00% * 81 ) =									\$0	0	0
	Small	( 0.25 * \$ 20.85 * 0 * 1 * 2 * 2 * 100% * 0.00% * 325 ) =									\$0	0	0
SECTOR 24. Chromium Catalyst Users													
Catalyst Users	Large	( 0.25 * \$ 32.51 * 2 * 3 * 3 * 2 * 100% * 9.00% * 1 ) =									\$26	1	3
	Small	( 0.25 * \$ 32.51 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
Chromium Catalyst Service Companies	Large	( 0.25 * \$ 32.51 * 0 * 3 * 3 * 2 * 100% * 0.00% * 23 ) =									\$0	0	0
	Small	( 0.25 * \$ 32.51 * 0 * 1 * 3 * 2 * 100% * 0.00% * 4 ) =									\$0	0	0
SECTOR 25. Refractory Brick Producers													
ALL	Large	( 0.25 * \$ 25.64 * 0 * 1 * 15 * 2 * 100% * 0.00% * 5 ) =									\$0	0	0
	Small	( 0.25 * \$ 25.64 * 0 * 1 * 0 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
SECTOR 26. Woodworking													
General Industry	Large	( 0.25 * \$ 32.11 * 0 * 1 * 2 * 2 * 100% * 0.00% * 148 ) =									\$0	0	0
	Small	( 0.25 * \$ 32.11 * 0 * 1 * 2 * 2 * 100% * 0.00% * 79 ) =									\$0	0	0
Maritime	Large	( 0.25 * \$ 32.11 * 0 * 1 * 1 * 2 * 100% * 0.00% * 36 ) =									\$0	0	0
	Small	( 0.25 * \$ 32.11 * 0 * 1 * 1 * 2 * 100% * 0.00% * 32 ) =									\$0	0	0
Construction	Large	( 0.25 * \$ 32.11 * 1 * 1 * 1 * 2 * 100% * 22.00% * 1,162 ) =									\$4,104	128	511
	Small	( 0.25 * \$ 32.11 * 1 * 1 * 1 * 2 * 100% * 22.00% * 4,650 ) =									\$16,425	512	2046
Government	State	( 0.25 * \$ 32.11 * 1 * 1 * 1 * 2 * 100% * 22.00% * 12 ) =									\$41	1	5
	Local	( 0.25 * \$ 32.11 * 1 * 1 * 1 * 2 * 100% * 22.00% * 42 ) =									\$149	5	19
SECTOR 27. Solid Waste Incineration													
General Industry	Large	( 0.25 * \$ 27.23 * 0 * 3 * 15 * 2 * 100% * 0.00% * 40 ) =									\$0	0	0
	Small	( 0.25 * \$ 27.23 * 0 * 1 * 3 * 2 * 100% * 0.00% * 48 ) =									\$0	0	0
Government	State	( 0.25 * \$ 27.23 * 0 * 3 * 15 * 2 * 100% * 0.00% * 0 ) =									\$0	0	0
	Local	( 0.25 * \$ 27.23 * 0 * 1 * 3 * 2 * 100% * 0.00% * 24 ) =									\$0	0	0

Table 9b

		NOTETIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	#PLANTS	ITEM 12 COST	TOTAL HOURS	RESPONSES
SECTOR 30. Superalloy Producers and Users													
ALL	Large	( 0.25 * \$	27.93 * 0	* 3	* 3	* 2	* 100%	* 0.00%	* 19	) =	\$0	0	0
	Small	( 0.25 * \$	27.93 * 0	* 3	* 3	* 2	* 100%	* 0.00%	* 0	) =	\$0	0	0
SECTOR 31. Construction Cement Workers													
Industrial Rehabilitation	Large	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 51	) =	\$0	0	0
	Small	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 233	) =	\$0	0	0
	State	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 15	) =	\$0	0	0
	Local	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 88	) =	\$0	0	0
Hazardous Waste-site Work	Large	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 40	) =	\$0	0	0
	Small	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 170	) =	\$0	0	0
	State	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 0.00%	* 1	) =	\$0	0	0
Refractory Brick Restoration	Large	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 60.00%	* 44	) =	\$0	0	0
	Small	( 0.25 * \$	32.13 * 0	* 1	* 1	* 2	* 100%	* 60.00%	* 175	) =	\$0	0	0
<b>75,506</b>											<b>\$446,607</b>	<b>15,447</b>	<b>61,788</b>

Table 10

**Respiratory-Protection Program: Qualitative Fit Testing for Respirator Use (§§ 1910.1026(g)(2), 1915.1026(f)(2), and 1926.1126(f)(2)); Employee and Industrial Hygiene Technician Time and Cost to Conduct Qualitative Fit Testing**

*This table calculates the burden hours and cost of employee and industrial hygienist time to conduct fit-testing. The time, in hours, for an employee to be qualitative fit-tested is multiplied by the number of employees that require fit -testing and by the nonsupervisory wage rate.*

COST = BURDEN HOURS \* NONSUPEWAGE

**\*ASSUMPTIONS:**

- \* QLFITTIME = Time, in hours, for an employee to be qualitative fit-tested
- \* QLFITTECH = Time, in hours, for a technician to conduct one qualitative fit test
- \* QLFITEMP - Number of employees requiring annual qualitative fit-testing
- \* 1-%FITBASE (%FITBASE is the percent of plants conducting annual respirator fit-testing in the baseline)
- \* NONSUPEWAGE = Non-Supervisory wage rate
- \* #PLANTS = Number of plants represented by the model input

			QLFITTIME	QLFITTECH	QLFITEMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAGE	Item 12 COST	RESPONSES						
24.17%																	
<b>Sector 1. Electroplating</b>																	
ALL	Large	(	0.25	+	0.25	) *	5,341 *	71%	*	1	) =	1,896 *	\$	26.61	=	\$50,450	3,792
	Small	(	0.25	+	0.25	) *	1,164 *	97%	*	1	) =	565 *	\$	26.61	=	\$15,027	1,129
<b>Sector 2. Welding</b>																	
GENERAL INDUSTRY	Large	(	0.25	+	0.25	) *	2,854 *	81%	*	1	) =	1,156 *	\$	26.20	=	\$30,286	2,312
	Small	(	0.25	+	0.25	) *	2,087 *	98%	*	1	) =	1,023 *	\$	26.20	=	\$26,793	2,045
MARITIME	Large	(	0.25	+	0.25	) *	2,330 *	55%	*	1	) =	641 *	\$	26.20	=	\$16,784	1,281
	Small	(	0.25	+	0.25	) *	55 *	95%	*	1	) =	26 *	\$	26.20	=	\$685	52
CONSTRUCTION	Large	(	0.25	+	0.25	) *	3,225 *	88%	*	1	) =	1,419 *	\$	26.20	=	\$37,180	2,838
	Small	(	0.25	+	0.25	) *	2,494 *	99%	*	1	) =	1,234 *	\$	26.20	=	\$32,342	2,469
GOVERNMENT	State	(	0.25	+	0.25	) *	14 *	88%	*	1	) =	6 *	\$	26.20	=	\$167	13
	Local	(	0.25	+	0.25	) *	73 *	99%	*	1	) =	36 *	\$	26.20	=	\$952	73
<b>Sector 2A. Mild Steel Welding</b>																	
GENERAL INDUSTRY	Large	(	0.25	+	0.25	) *	691 *	81%	*	1	) =	280 *	\$	26.20	=	\$7,331	560
	Small	(	0.25	+	0.25	) *	2,087 *	98%	*	1	) =	1,023 *	\$	26.20	=	\$26,793	2,045
MARITIME	Large	(	0.25	+	0.25	) *	16 *	55%	*	1	) =	5 *	\$	26.20	=	\$118	9
	Small	(	0.25	+	0.25	) *	0 *	95%	*	1	) =	0 *	\$	26.20	=	\$0	0
CONSTRUCTION	Large	(	0.25	+	0.25	) *	658 *	88%	*	1	) =	290	\$	26.20	=	\$7,585	579
	Small	(	0.25	+	0.25	) *	529 *	99%	*	1	) =	262	\$	26.20	=	\$6,867	524
GOVERNMENT	State	(	0.25	+	0.25	) *	14 *	88%	*	1	) =	6	\$	26.20	=	\$167	13
	Local	(	0.25	+	0.25	) *	73 *	99%	*	1	) =	36	\$	26.20	=	\$952	73
<b>SECTOR 3. Painting</b>																	
GENERAL INDUSTRY (AEROSPACE)	Large	(	0.25	+	0.25	) *	45 *	81%	*	49	) =	897 *	\$	33.07	=	\$29,664	1,794
	Small	(	0.25	+	0.25	) *	0 *	98%	*	62	) =	4 *	\$	33.07	=	\$127	8

Table 10

		QLFITIME	QLFITTECH	QLFITEMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAG	Item 12 COST	RESPONSES
GENERAL INDUSTRY (AUTO BODY REPAIR)	Large	( 0.25 + 0.25 ) *		1 *	81%	326 )	= 120 *	\$ 33.07 =	\$3,955	239
	Small	( 0.25 + 0.25 ) *		0 *	98%	1,436 )	= 147 *	\$ 33.07 =	\$4,846	293
COIL COATING	Large	( 0.25 + 0.25 ) *		2 *	81%	100 )	= 73 *	\$ 33.07 =	\$2,417	146
	Small	( 0.25 + 0.25 ) *		1 *	98%	18 )	= 8 *	\$ 33.07 =	\$266	16
MARITIME	Large	( 0.25 + 0.25 ) *		3 *	55.00%	276 )	= 206 *	\$ 33.07 =	\$6,816	412
	Small	( 0.25 + 0.25 ) *		1 *	95%	476 )	= 214 *	\$ 33.07 =	\$7,063	427
CONSTRUCTION	Large	( 0.25 + 0.25 ) *		413 *	0%	1 )	= 0 *	\$ 33.07 =	\$0	0
	Small	( 0.25 + 0.25 ) *		520 *	0%	1 )	= 0 *	\$ 33.07 =	\$0	0
	State	( 0.25 + 0.25 ) *		31 *	0%	1 )	= 0 *	\$ 33.07 =	\$0	0
	Local	( 0.25 + 0.25 ) *		133 *	0%	1 )	= 0 *	\$ 33.07 =	\$0	0
SECTOR 4. Producers of Chromates										
ALL	Large	( 0.25 + 0.25 ) *		7 *	37%	2 )	= 2 *	\$ 38.68 =	\$92	5
	Small	( 0.25 + 0.25 ) *		0 *	93%	0 )	= 0 *	\$ 38.68 =	\$0	0
SECTOR 5. Chromate Pigment Procedures										
ALL	Large	( 0.25 + 0.25 ) *		8 *	37%	2 )	= 3 *	\$ 37.70 =	\$102	5
	Small	( 0.25 + 0.25 ) *		1 *	93%	1 )	= 0 *	\$ 37.70 =	\$14	1
SECTOR 6. CCA Producers										
ALL	Large	( 0.25 + 0.25 ) *		2 *	37%	2 )	= 1 *	\$ 31.94 =	\$33	2
	Small	( 0.25 + 0.25 ) *		0 *	93%	0 )	= 0 *	\$ 31.94 =	\$0	0
SECTOR 7. Chromium Catalyst Producers										
ALL	Large	( 0.25 + 0.25 ) *		11 *	37%	5 )	= 10 *	\$ 38.68 =	\$394	20
	Small	( 0.25 + 0.25 ) *		0 *	93%	0 )	= 0 *	\$ 38.68 =	\$0	0
SECTOR 8. Paint and Coating Producers										
ALL	Large	( 0.25 + 0.25 ) *		1 *	37%	80 )	= 14 *	\$ 28.81 =	\$410	28
	Small	( 0.25 + 0.25 ) *		0 *	93%	126 )	= 0 *	\$ 28.81 =	\$0	0
SECTOR 9. Printing Ink Producers										
ALL	Large	( 0.25 + 0.25 ) *		10 *	37%	2 )	= 5 *	\$ 28.86 =	\$133	9
	Small	( 0.25 + 0.25 ) *		2 *	93%	8 )	= 10 *	\$ 28.86 =	\$279	19
SECTOR 10. Plastic Colorant Producers and Users										
ALL	Large	( 0.25 + 0.25 ) *		342 *	54%	1 )	= 92 *	\$ 31.99 =	\$2,952	185
	Small	( 0.25 + 0.25 ) *		35 *	95%	1 )	= 16 *	\$ 31.99 =	\$525	33
SECTOR 11. Plating Mixture Producers										
ALL	Large	( 0.25 + 0.25 ) *		3 *	37%	6 )	= 3 *	\$ 28.71 =	\$85	6
	Small	( 0.25 + 0.25 ) *		1 *	93%	4 )	= 2 *	\$ 28.71 =	\$47	3

Table 10

		QLFITIME	QLFITTECH	QLFITEMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAG	Item 12 COST	RESPONSES
SECTOR 13. Chromium Metal Producers										
ALL	Large	( 0.25 + 0.25 ) *		7 *	56%	* 1 )	= 2 *	\$ 38.80 =	\$72	4
	Small	( 0.25 + 0.25 ) *		0 *	95%	* 0 )	= 0 *	\$ 38.80 =	\$0	0
SECTOR 14. Iron and Steel Mills										
ALL	Large	( 0.25 + 0.25 ) *		27 *	56%	* 34 )	= 254 *	\$ 38.80 =	\$9,861	508
	Small	( 0.25 + 0.25 ) *		1 *	95%	* 11 )	= 7 *	\$ 38.80 =	\$256	13
CARBON STEEL	Large	( 0.25 + 0.25 ) *		1 *	56%	* 102 )	= 18 *	\$ 38.80 =	\$704	36
	Small	( 0.25 + 0.25 ) *		1 *	95%	* 32 )	= 19 *	\$ 38.80 =	\$751	39
14b. FORGING INDUSTRY										
RESHAPING INDUSTRY	Large	( 0.25 + 0.25 ) *		3 *	56%	* 33 )	= 24 *	\$ 38.80 =	\$921	47
	Small	( 0.25 + 0.25 ) *		1 *	95%	* 31 )	= 9 *	\$ 38.80 =	\$368	19
SECTOR 15. Iron and Steel Foundries										
ALL	Large	( 0.25 + 0.25 ) *		17 *	56%	* 163 )	= 786 *	\$ 28.31 =	\$22,259	1,573
	Small	( 0.25 + 0.25 ) *		4 *	95%	* 118 )	= 231 *	\$ 28.31 =	\$6,539	462
SECTOR 17. Chromium Dye Producers										
ALL	Large	( 0.25 + 0.25 ) *		29 *	37%	* 3 )	= 14 *	\$ 37.70 =	\$542	29
	Small	( 0.25 + 0.25 ) *		7 *	93%	* 1 )	= 3 *	\$ 37.70 =	\$109	6
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	( 0.25 + 0.25 ) *		0 *	37%	* 0 )	= 0 *	\$ 41.50 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	93%	* 5 )	= 0 *	\$ 41.50 =	\$0	0
SECTOR 19. Chemical Distributors										
ALL	Large	( 0.25 + 0.25 ) *		0 *	92%	* 216 )	= 0 *	\$ 29.92 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 1,627 )	= 0 *	\$ 29.92 =	\$0	0
SECTOR 20. Textile Dyeing										
ALL	Large	( 0.25 + 0.25 ) *		0 *	89%	* 343 )	= 0 *	\$ 19.97 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 697 )	= 0 *	\$ 19.97 =	\$0	0
SECTOR 21. Colored Glass Producers										
ALL	Large	( 0.25 + 0.25 ) *		1 *	76%	* 6 )	= 3 *	\$ 28.87 =	\$72	5
	Small	( 0.25 + 0.25 ) *		0 *	97%	* 20 )	= 0 *	\$ 28.87 =	\$0	0
FIBER, FLAT, AND CONTAINER GLASS	Large	( 0.25 + 0.25 ) *		9 *	76%	* 90 )	= 323 *	\$ 28.87 =	\$9,329	646
	Small	( 0.25 + 0.25 ) *		2 *	97%	* 5 )	= 5 *	\$ 28.87 =	\$154	11
SECTOR 22. Printing										
ALL	Large	( 0.25 + 0.25 ) *		0 *	98%	* 81 )	= 0 *	\$ 20.85 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99.70%	* 325 )	= 0 *	\$ 20.85 =	\$0	0
SECTOR 24. Chromium Catalyst Users										
Chromium Catalyst Users	Large	( 0.25 + 0.25 ) *		1 *	67%	* 1 )	= 0 *	\$ 32.51 =	\$12	1
	Small	( 0.25 + 0.25 ) *		0 *	97%	* 0 )	= 0 *	\$ 32.51 =	\$0	0

Table 10

		QLFITIME	QLFITTECH	QLFITEMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAG	Item 12 COST	RESPONSES
Catalyst Service Companies	Large	( 0.25 + 0.25 ) *		0 *	0%	* 1 ) =	0 *	\$ 32.51 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	0%	* 1 ) =	0 *	\$ 32.51 =	\$0	0
SECTOR 25. Refractory Brick Producers										
ALL	Large	( 0.25 + 0.25 ) *		0 *	76%	* 5 ) =	0 *	\$ 25.64 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	97%	* 0 ) =	0 *	\$ 25.64 =	\$0	0
SECTOR 26. Woodworking										
GENERAL INDUSTRY	Large	( 0.25 + 0.25 ) *		0 *	94%	* 1 ) =	0 *	\$ 32.11 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 1 ) =	0 *	\$ 32.11 =	\$0	0
MARITIME	Large	( 0.25 + 0.25 ) *		0 *	55%	36 ) =	0 *	\$ 32.11 =	\$0	
	Small	( 0.25 + 0.25 ) *		0 *	95%	32 ) =	0 *	\$ 32.11 =	\$0	
CONSTRUCTION	Large	( 0.25 + 0.25 ) *		0 *	88%	1 ) =	0 *	\$ 32.11 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 1 ) =	0 *	\$ 32.11 =	\$0	0
GOVERNMENT	State	( 0.25 + 0.25 ) *		0 *	88%	* 1 ) =	0 *	\$ 32.11 =	\$0	0
	Local	( 0.25 + 0.25 ) *		0 *	88%	* 1 ) =	0 *	\$ 32.11 =	\$0	0
SECTOR 27. Solid Waste Incineration										
ALL	Large	( 0.25 + 0.25 ) *		5 *	59%	* 40 ) =	60 *	\$ 27.23 =	\$1,622	119
	Small	( 0.25 + 0.25 ) *		1 *	96%	* 48 ) =	17 *	\$ 27.23 =	\$452	33
GOVERNMENT	State	( 0.25 + 0.25 ) *		0 *	59%	* 0 ) =	0 *	\$ 27.23 =	\$0	
	Local	( 0.25 + 0.25 ) *		0 *	96%	* 24 ) =	0 *	\$ 27.23 =	\$0	0
SECTOR 30. Superalloy Producers and Users										
ALL	Large	( 0.25 + 0.25 ) *		0 *	56%	* 19 ) =	0 *	\$ 27.93 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	95%	* 0 ) =	0 *	\$ 27.93 =	\$0	0
SECTOR 31. Construction										
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	( 0.25 + 0.25 ) *		0 *	88%	* 51 ) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 233 ) =	0 *	\$ 32.13 =	\$0	0
	State	( 0.25 + 0.25 ) *		0 *	88%	* 15 ) =	0 *	\$ 32.13 =	\$0	0
	Local	( 0.25 + 0.25 ) *		0 *	88%	* 88 ) =	0 *	\$ 32.13 =	\$0	0
HAZARDOUS WASTE-SITE WORK	Large	( 0.25 + 0.25 ) *		0 *	88%	* 1 ) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 1 ) =	0 *	\$ 32.13 =	\$0	0
	State	( 0.25 + 0.25 ) *		0 *	88%	* 1 ) =	0 *	\$ 32.13 =	\$0	0
REFRACTORY BRICK RESTORATION	Large	( 0.25 + 0.25 ) *		0 *	88%	* 44 ) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.25 + 0.25 ) *		0 *	99%	* 175 ) =	0 *	\$ 32.13 =	\$0	0
<b>Total</b>						<b>7,772</b>	<b>13,506</b>		<b>\$374,725</b>	<b>27,011</b>

Table 11

**Respiratory-Protection Program: Cost of Materials for Qualitative Fit Testing**

*This table calculates the contract cost of the materials used for qualitative fit-testing by multiplying the number of employees who require qualitative fit-testing by the cost of materials per fit-test.*

$COST = ((QLFITMTRLS * QLFITEMP) * 1-\%FITBASE * \#PLANTS)$

\* QLFITMTRLS = Cost of materials per qualitative fit-testing

\* QLFITEMP - Number of employees requiring annual qualitative fit-testing

\* 1-%FITBASE (%FITBASE is the percent of plants conducting annual respirator fit-testing in the baseline)

\* #PLANTS = Number of plants represented by the model input

Variables		QLFITMTRLS		QLFITEMP		1-%FITBASE		#PLANTS		Item 13 Cost				
<b>Sector 1. Electroplating</b>														
ALL	Large	(	\$	0.09	*	5,341	)	*	71%	*	1	=	\$	340
	Small	(	\$	0.09	*	1,164	)	*	97%	*	1	=	\$	101
<b>Sector 2. Welding</b>														
GENERAL INDUSTRY	Large	(	\$	0.09	*	2,854	)	*	81%	*	1	=	\$	208
	Small	(	\$	0.09	*	2,087	)	*	98%	*	1	=	\$	184
MARITIME	Large	(	\$	0.09	*	2,330	)	*	55%	*	1	=	\$	115
	Small	(	\$	0.09	*	55	)	*	95%	*	1	=	\$	5
CONSTRUCTION	Large	(	\$	0.09	*	3,225	)	*	88%	*	1	=	\$	255
	Small	(	\$	0.09	*	2,494	)	*	99%	*	1	=	\$	222
GOVERNMENT	State	(	\$	0.09		14	)	*	88%	*	1	=	\$	1
	Local	(	\$	0.09		73	)	*	99%	*	1	=	\$	7
<b>Sector 2A. Mild Steel Welding</b>														
GENERAL INDUSTRY	Large	(	\$	0.09	*	691	)	*	81%	*	1	=	\$	50
	Small	(	\$	0.09	*	2,087	)	*	98%	*	1	=	\$	184
MARITIME	Large	(	\$	0.09	*	16	)	*	55%	*	1	=	\$	1
	Small	(	\$	0.09	*	0	)	*	95%	*	1	=	\$	0
CONSTRUCTION	Large	(	\$	0.09	*	658	)	*	88%	*	1	=	\$	52
	Small	(	\$	0.09	*	529	)	*	99%	*	1	=	\$	47
GOVERNMENT	State	(	\$	0.09	*	15	)	*	88%	*	1	=	\$	1
	Local	(	\$	0.09	*	74	)	*	99%	*	1	=	\$	7
<b>SECTOR 3. PAINTING</b>														
GENERAL INDUSTRY (AEROSPACE)	Large	(	\$	0.09	*	45	)	*	81%	*	49	=	\$	161
	Small	(	\$	0.09	*	0	)	*	98%	*	62	=	\$	1
GENERAL INDUSTRY (AUTO BODY REPAIR)	Large	(	\$	0.09	*	1	)	*	81%	*	326	=	\$	21
	Small	(	\$	0.09	*	0	)	*	98%	*	1,436	=	\$	26

Table 11

Variables		QLFITMTRLS	QLFITEMP	1-%FITBASE	#PLANTS	Item 13 Cost
COIL COATING	Large	( \$ 0.09 * 2 ) *	81% *	100	= \$	13
	Small	( \$ 0.09 * 1 ) *	98% *	18	= \$	1
MARITIME	Large	( \$ 0.09 * 1 ) *	55.00% *	276	= \$	13
	Small	( \$ 0.09 * 0 ) *	95% *	476	= \$	13
CONSTRUCTION	Large	( \$ 0.09 * 413 ) *	0.00% *	1	=	0
	Small	( \$ 0.09 * 520 ) *	0.00% *	1	=	0
	State	( \$ 0.09 * 31 ) *	0.00% *	1	=	0
	Local	( \$ 0.09 * 133 ) *	0.00% *	1	=	0
SECTOR 4. Producers of Chromates						
ALL	Large	( \$ 0.09 * 7 ) *	37% *	2	= \$	0.43
	Small	( \$ 0.09 * 0 ) *	93% *	0	=	0
SECTOR 5. Chromate Pigment Procedures						
ALL	Large	( \$ 0.09 * 8 ) *	37% *	2	= \$	0
	Small	( \$ 0.09 * 1 ) *	93% *	1	= \$	0
SECTOR 6. CCA Producers						
ALL	Large	( \$ 0.09 * 4 ) *	37% *	2	= \$	0.31
	Small	( \$ 0.09 * 0 ) *	93% *	0	=	0
SECTOR 7. Chromium Catalyst Producers						
ALL	Large	( \$ 0.09 * 11 ) *	37% *	5	= \$	2
	Small	( \$ 0.09 * 0 ) *	93% *	0	=	0
SECTOR 8. Paint and Coating Producers						
ALL	Large	( \$ 0.09 * 1 ) *	37% *	80	= \$	3
	Small	( \$ 0.09 * 0 ) *	93% *	126	=	0
SECTOR 9. Printing Ink Producers						
ALL	Large	( \$ 0.09 * 10 ) *	37% *	2	= \$	1
	Small	( \$ 0.09 * 2 ) *	93% *	8	= \$	2
SECTOR 10. Plastic Colorant Producers and Users						
ALL	Large	( \$ 0.09 * 342 ) *	54% *	1	= \$	17
	Small	( \$ 0.09 * 35 ) *	95% *	1	= \$	3
SECTOR 11. Plating Mixture Producers						
ALL	Large	( \$ 0.09 * 3 ) *	37% *	6	= \$	0.53
	Small	( \$ 0.09 * 1 ) *	93% *	4	= \$	0.30



Table 11

Variables		QLFITMTRLS		QLFITEMP		1-%FITBASE		#PLANTS		Item 13 Cost				
SECTOR 13. Chromium Metal Producers														
ALL	Large	(	\$	0.09	*	7	)	*	56%	*	1	=	\$	0.33
	Small	(	\$	0.09	*	0	)	*	95%	*	0	=		0
SECTOR 14. Iron and Steel Mills														
ALLOY AND STAINLESS STEEL	Large	(	\$	0.09	*	27	)	*	56%	*	34	=	\$	46
	Small	(	\$	0.09	*	1	)	*	95%	*	11	=	\$	1
Carbon Steel	Large	(	\$	0.09	*	1	)	*	56%	*	102	=	\$	3
	Small	(	\$	0.09	*	1	)	*	95%	*	32	=	\$	3
14b. FORGING INDUSTRY														
RESHAPING INDUSTRY	Large	(	\$	0.09	*	3	)	*	56%	*	33	=	\$	4
	Small	(	\$	0.09	*	1	)	*	95%	*	31	=	\$	2
SECTOR 15. Iron and Steel Foundries														
ALL	Large	(	\$	0.09	*	17	)	*	56%	*	163	=	\$	141
	Small	(	\$	0.09	*	4	)	*	95%	*	118	=	\$	41
SECTOR 17. Chromium Dye Producers														
ALL	Large	(	\$	0.09	*	29	)	*	37%	*	3	=	\$	3
	Small	(	\$	0.09	*	7	)	*	93%	*	1	=	\$	0.52
SECTOR 18. Chromium Sulfate Producers														
ALL	Large	(	\$	0.09	*	0	)	*	37%	*	0	=		0
	Small	(	\$	0.09	*	1	)	*	93%	*	5	=	\$	0.38
SECTOR 19. Chemical Distributors														
ALL	Large	(	\$	0.09	*	0	)	*	92%	*	216	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	1,627	=		0
SECTOR 20. Textile Dyeing														
ALL	Large	(	\$	0.09	*	0	)	*	89%	*	343	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	697	=		0
SECTOR 21. Colored Glass Producers														
ALL	Large	(	\$	0.09	*	1	)	*	76%	*	6	=	\$	0.45
	Small	(	\$	0.09	*	0	)	*	97%	*	20	=		0
Fiber, Flat and Container Glass	Large	(	\$	0.09	*	9	)	*	76%	*	90	=	\$	58.01
	Small	(	\$	0.09	*	2	)	*	97%	*	5	=	\$	1
SECTOR 22. Printing														
ALL	Large	(	\$	0.09	*	0	)	*	98%	*	81	=		0
	Small	(	\$	0.09	*	0	)	*	99.70%	*	325	=		0

Table 11

Variables		QLFITMTRLS		QLFITEMP		1-%FITBASE		#PLANTS		Item 13 Cost				
SECTOR 24. Chromium Catalyst Users														
CHROMIUM CATALYST USERS	Large	(	\$	0.09	*	1	)	*	67%	*	1	=	\$	0.07
	Small	(	\$	0.09	*	0	)	*	97%	*	0	=		0
CHROMIUM CATALYST COMPANIES	Large	(	\$	0.09	*	1	)	*	67%	*	1	=	\$	0.07
	Small	(	\$	0.09	*	1	)	*	97%	*	1	=		0.095541157
SECTOR 25. Refractory Brick Producers														
ALL	Large	(	\$	0.09	*	0	)	*	76%	*	5	=		0
	Small	(	\$	0.09	*	0	)	*	97%	*	0	=		0
SECTOR 26. Woodworking														
GENERAL INDUSTRY	Large	(	\$	0.09	*	0	)	*	94%	*	1	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	1	=		0
MARITIME	Large	(	\$	0.09	*	0	)	*	55%	*	36	=		0
	Small	(	\$	0.09	*	0	)	*	95%	*	32	=		0
CONSTRUCTION	Large	(	\$	0.09	*	0	)	*	88%	*	1	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	1	=		0
GOVERNMENT	State	(	\$	0.09	*	0	)	*	88%	*	1	=		0
	Local	(	\$	0.09	*	0	)	*	88%	*	1	=		0
SECTOR 27. Solid Waste Incineration														
ALL	Large	(	\$	0.09	*	5	)	*	59%	*	40	=	\$	11
	Small	(	\$	0.09	*	1	)	*	96%	*	48	=	\$	3
GOVERNMENT	State	(	\$	0.09	*	0	)	*	59%	*	0	=		0
	Local	(	\$	0.09	*	0	)	*	96%	*	24	=		0
SECTOR 30. Superalloy Producers and Users														
ALL	Large	(	\$	0.09	+	0	)	*	56%	*	19	=		0
	Small	(	\$	0.09	+	0	)	*	95%	*	0	=		0
SECTOR 31. Construction														
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	(	\$	0.09	*	0	)	*	88%	*	51	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	233	=		0
	State	(	\$	0.09	*	0	)	*	88%	*	15	=		0
	Local	(	\$	0.09	*	0	)	*	88%	*	88	=		0
HAZARDOUS WASTE-SITE WORK	Large	(	\$	0.09	*	0	)	*	88%	*	1	=		0
	Small	(	\$	0.09	*	0	)	*	99%	*	1	=		0
	State	(	\$	0.09	*	0	)	*	88%	*	1	=		0
	Local	(	\$	0.09	*	0	)	*	88%	*	1	=		0

Table 11

Variables		QLFITMTRLS	QLFITEMP	1-%FITBASE	#PLANTS	Item 13 Cost
REFRACTORY BRICK RESTORATION	Large	( \$ 0.09 * 0 ) *	88% *	44 =	0	
	Small	( \$ 0.09 * 0 ) *	99% *	175 =	0	
<b>Total</b>					<b>7,772</b>	<b>\$ 2,376</b>

Table 12

**Respirator Protection Program: Quantitative Fit Testing for Respirator Use (§§ 1910.1026(g)(2), 1915.1026(f)(2), and 1926.1126(f)(2)); Employee Time and Cost to Conduct Quantitative Fit Testing**

*This table calculates the burden hour and cost of employee time to be fit-tested. The time, in hours, for an employee to be quantitative fit-tested is multiplied by the number of employees that require fit -testing and by the nonsupervisory wage rate.*

BURDEN HOURS = (QNFITTIME + QNFITTEMP) \* 1-%FITBASE \* #PLANTS  
 COST = BURDEN HOURS \* NONSUPWAGE

- \* QNFITTIME = Time, in hours, for an employee to be quantitative fit-tested
- \* QNFITTEMP = Number of employees requiring annual quantitative fit-testing
- \* 1-%FITBASE (%FITBASE is the percent of plants conducting annual respirator fit-testing in the baseline)
- \* #PLANTS = Number of plants represented by the model input
- \* NONSUPEWAGE = Non-Supervisory wage rate

24.17%

		QNFITTIME	QNFITTEMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAGE	Item 12 COST	Responses
<b>Sector 1. Electroplating</b>									
ALL	Large	( 0.5 * 0 ) *	71%	* 1	) =	0 * \$ 26.61 =	\$0	0	
	Small	( 0.5 * 0 ) *	97%	* 1	) =	0 * \$ 26.61 =	\$0	0	
<b>Sector 2. Welding</b>									
GENERAL INDUSTRY	Large	( 0.5 * 0 ) *	81%	* 1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	98%	* 1	) =	0 * \$ 26.20 =	\$0	0	
MARITIME	Large	( 0.5 * 0 ) *	55%	* 1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	95%	* 1	) =	0 * \$ 26.20 =	\$0	0	
CONSTRUCTION	Large	( 0.5 * 0 ) *	88%	1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	99%	1	) =	0 * \$ 26.20 =	\$0	0	
GOVERNMENT	State	( 0.5 * 0 ) *	88%	1	) =	0 * \$ 26.20 =	\$0	0	
	Local	( 0.5 * 0 ) *	99%	1	) =	0 * \$ 26.20 =	\$0	0	
<b>Sector 2. Mild Steel Welding</b>									
GENERAL INDUSTRY	Large	( 0.5 * 0 ) *	81%	* 1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	98%	* 1	) =	0 * \$ 26.20 =	\$0	0	
MARITIME	Large	( 0.5 * 0 ) *	55%	1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	95%	1	) =	0 * \$ 26.20 =	\$0	0	
CONSTRUCTION	Large	( 0.5 * 0 ) *	82%	1	) =	0 * \$ 26.20 =	\$0	0	
	Small	( 0.5 * 0 ) *	99%	1	) =	0 * \$ 26.20 =	\$0	0	
<b>SECTOR 3. PAINTING</b>									
GENERAL INDUSTRY AEROSPACE	Large	( 0.5 * 0 ) *	81%	* 49	) =	0 * \$ 33.07 =	\$0	0	
	Small	( 0.5 * 0 ) *	98%	* 62	) =	0 * \$ 33.07 =	\$0	0	
GENERAL INDUSTRY AUTOBODY REPAIR	Large	( 0.5 * 0 ) *	81%	* 326	) =	0 * \$ 33.07 =	\$0	0	
	Small	( 0.5 * 0 ) *	98%	* 1,436	) =	0 * \$ 33.07 =	\$0	0	
COIL COATING	Large	( 0.5 * 0 ) *	81%	* 100	) =	0 * \$ 33.07 =	\$0	0	
	Small	( 0.5 * 0 ) *	98%	* 18	) =	0 * \$ 33.07 =	\$0	0	
MARITIME	Large	( 0.5 * 0 ) *	55.00%	276	) =	0 * \$ 33.07 =	\$0	0	

Table 12

		QNFITIME	QNFITMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAGE	Item 12 COST	Responses
	Small	( 0.5 * 0 ) *		95%	476	= 0 *	\$ 33.07 =	\$0	0
CONSTRUCTION	Large	( 0.5 * 0 ) *		0%	1	= 0 *	\$ 33.07 =	\$0	0
	Small	( 0.5 * 0 ) *		0%	1	= 0 *	\$ 33.07 =	\$0	0
GOVERNMENT	State	( 0.5 * 0 ) *		0%	1	= 0 *	\$ 33.07 =	\$0	0
	Local	( 0.5 * 0 ) *		0%	1	= 0 *	\$ 33.07 =	\$0	0
SECTOR 4. Producers of Chromates									
ALL	Large	( 0.5 * 0 ) *		37%	2	= 0 *	\$ 38.68 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	0	= 0 *	\$ 38.68 =	\$0	0
SECTOR 5. Chromate Pigment Procedures									
ALL	Large	( 0.5 * 0 ) *		37%	2	= 0 *	\$ 37.70 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	1	= 0 *	\$ 37.70 =	\$0	0
SECTOR 6. CCA Producers									
ALL	Large	( 0.5 * 0 ) *		37%	2	= 0 *	\$ 31.94 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	0	= 0 *	\$ 31.94 =	\$0	0
SECTOR 7. Chromium Catalyst Producers									
ALL	Large	( 0.5 * 0 ) *		37%	5	= 0 *	\$ 38.68 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	0	= 0 *	\$ 38.68 =	\$0	0
SECTOR 8. Paint and Coating Producers									
ALL	Large	( 0.5 * 0 ) *		37%	80	= 0 *	\$ 28.81 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	126	= 0 *	\$ 28.81 =	\$0	0
SECTOR 9. Printing Ink Producers									
ALL	Large	( 0.5 * 0 ) *		37%	2	= 0 *	\$ 28.86 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	8	= 0 *	\$ 28.86 =	\$0	0
SECTOR 10. Plastic Colorant Producers and Users									
ALL	Large	( 0.5 * 0 ) *		54%	1	= 0 *	\$ 31.99 =	\$0	0
	Small	( 0.5 * 0 ) *		95%	1	= 0 *	\$ 31.99 =	\$0	0
SECTOR 11. Plating Mixture Producers									
ALL	Large	( 0.5 * 0 ) *		37%	6	= 0 *	\$ 28.71 =	\$0	0
	Small	( 0.5 * 0 ) *		93%	4	= 0 *	\$ 28.71 =	\$0	0
SECTOR 13. Chromium Metal Producers									
ALL	Large	( 0.5 * 0 ) *		56%	1	= 0 *	\$ 38.80 =	\$0	0
	Small	( 0.5 * 0 ) *		95%	0	= 0 *	\$ 38.80 =	\$0	0
SECTOR 14. Iron and Steel Mills									
ALLOY AND STAINLESS STEEL	Large	( 0.5 * 0 ) *		56%	34	= 0 *	\$ 38.80 =	\$0	0
	Small	( 0.5 * 0 ) *		95%	11	= 0 *	\$ 38.80 =	\$0	0
CARBON STEEL	Large	( 0.5 * 0 ) *		56%	102	= 0 *	\$ 38.80 =	\$0	0
	Small	( 0.5 * 0 ) *		95%	32	= 0 *	\$ 38.80 =	\$0	0
14b. FORGING INDUSTRY									
RESHAPING INDUSTRY	Large	( 0.5 * 0 ) *		56%	33	= 0 *	\$ 38.80 =	\$0	0

Table 12

		QNFITIME	QNFITMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAGE	Item 12 COST	Responses
	Small	( 0.5 * 0 )	*	95%	* 31	) = 0 *	\$ 38.80 =	\$0	0
SECTOR 15. Iron and Steel Foundries									
ALL	Large	( 0.5 * 0 )	*	56%	* 163	) = 0 *	\$ 28.31 =	\$0	0
	Small	( 0.5 * 0 )	*	95%	* 118	) = 0 *	\$ 28.31 =	\$0	0
SECTOR 17. Chromium Dye Producers									
ALL	Large	( 0.5 * 0 )	*	37%	* 3	) = 0 *	\$ 37.70 =	\$0	0
	Small	( 0.5 * 0 )	*	93%	* 1	) = 0 *	\$ 37.70 =	\$0	0
SECTOR 18. Chromium Sulfate Producers									
ALL	Large	( 0.5 * 0 )	*	37%	* 0	) = 0 *	\$ 41.50 =	\$0	0
	Small	( 0.5 * 0 )	*	93%	* 5	) = 0 *	\$ 41.50 =	\$0	0
SECTOR 19. Chemical Distributors									
ALL	Large	( 0.5 * 0 )	*	92%	* 216	) = 0 *	\$ 29.92 =	\$0	0
	Small	( 0.5 * 0 )	*	99%	* 1,627	) = 0 *	\$ 29.92 =	\$0	0
SECTOR 20. Textile Dyeing									
ALL	Large	( 0.5 * 0 )	*	89%	* 343	) = 0 *	\$ 19.97 =	\$0	0
	Small	( 0.5 * 0 )	*	99%	* 697	) = 0 *	\$ 19.97 =	\$0	0
SECTOR 21. Colored Glass Producers									
ALL	Large	( 0.5 * 0 )	*	76%	* 6	) = 0 *	\$ 28.87 =	\$0	0
	Small	( 0.5 * 0 )	*	97%	* 20	) = 0 *	\$ 28.87 =	\$0	0
Carbon, Flat, and Container Glass	Large	( 0.5 * 0 )	*	76%	* 90	) = 0 *	\$ 28.87 =	\$0	0
	Small	( 0.5 * 0 )	*	97%	* 5	) = 0 *	\$ 28.87 =	\$0	0
SECTOR 22. Printing									
ALL	Large	( 0.5 * 0 )	*	98%	* 81	) = 0 *	\$ 20.85 =	\$0	0
	Small	( 0.5 * 0 )	*	99.70%	* 325	) = 0 *	\$ 20.85 =	\$0	0
SECTOR 24. Chromium Catalyst Users									
Chromium Catalyst Users	Large	( 0.5 * 0 )	*	67%	* 1	) = 0 *	\$ 32.51 =	\$0	0
	Small	( 0.5 * 0 )	*	97%	* 0	) = 0 *	\$ 32.51 =	\$0	0
Chromium Catalyst Companies	Large	( 0.5 * 119 )	*	67%	* 1	) = 40 *	\$ 32.51 =	\$1,291	79
	Small	( 0.5 * 11 )	*	97%	* 1	) = 5 *	\$ 32.51 =	\$173	11
SECTOR 25. Refractory Brick Producers									
ALL	Large	( 0.5 * 0 )	*	76%	* 5	) = 0 *	\$ 25.64 =	\$0	0
	Small	( 0.5 * 0 )	*	97%	* 0	) = 0 *	\$ 25.64 =	\$0	0
SECTOR 26. Woodworking									
GENERAL INDUSTRY	Large	( 0.5 * 0 )	*	94%	* 1	) = 0 *	\$ 32.11 =	\$0	0
	Small	( 0.5 * 0 )	*	99%	* 1	) = 0 *	\$ 32.11 =	\$0	0
MARITIME	Large	( 0.5 * 0 )	*	55%	* 36	) = 0 *	\$ 32.11 =	\$0	0
	Small	( 0.5 * 0 )	*	95%	* 32	) = 0 *	\$ 32.11 =	\$0	0
CONSTRUCTION	Large	( 0.5 * 0 )	*	88%	* 1	) = 0 *	\$ 32.11 =	\$0	0
	Small	( 0.5 * 0 )	*	99%	* 1	) = 0 *	\$ 32.11 =	\$0	0

Table 12

		QNFITIME	QNFITMP	1-%FITBASE	#PLANTS	BURDEN HOURS	NONSUPEWAGE	Item 12 COST	Responses
GOVERNMENT	State	( 0.5 * 0 ) *	88%	* 1	) =	0 *	\$ 32.11 =	\$0	0
	Local	( 0.5 * 0 ) *	88%	* 1	) =	0 *	\$ 32.11 =	\$0	0
SECTOR 27. Solid Waste Incineration									
ALL	Large	( 0.5 * 0 ) *	59%	* 40	) =	0 *	\$ 27.23 =	\$0	0
	Small	( 0.5 * 0 ) *	96%	* 48	) =	0 *	\$ 27.23 =	\$0	0
GOVERNMENT	State	( 0.5 * 0 ) *	59%	* 0	) =	0 *	\$ 27.23 =	\$0	0
	Local	( 0.5 * 0 ) *	96%	* 24	) =	0 *	\$ 27.23 =	\$0	0
SECTOR 30. Superalloy Producers and Users									
ALL	Large	( 0.5 * 0 ) *	56%	* 19	) =	0 *	\$ 27.93 =	\$0	0
	Small	( 0.5 * 0 ) *	95%	* 0	) =	0 *	\$ 27.93 =	\$0	0
SECTOR 31. Construction									
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	( 0.5 * 0 ) *	88%	* 51	) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.5 * 0 ) *	99%	* 233	) =	0 *	\$ 32.13 =	\$0	0
	State	( 0.5 * 0 ) *	88%	* 15	) =	0 *	\$ 32.13 =	\$0	0
	Local	( 0.5 * 0 ) *	88%	* 88	) =	0 *	\$ 32.13 =	\$0	0
HAZARDOUS WASTE-SITE WORK	Large	( 0.5 * 0 ) *	88%	* 1	) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.5 * 0 ) *	99%	* 1	) =	0 *	\$ 32.13 =	\$0	0
	State	( 0.5 * 0 ) *	88%	* 1	) =	0 *	\$ 32.13 =	\$0	0
REFRACTORY BRICK RESTORATION	Local	( 0.5 * 0 ) *	88%	* 1	) =	0 *	\$ 32.13 =	\$0	0
	Large	( 0.5 * 0 ) *	88%	* 44	) =	0 *	\$ 32.13 =	\$0	0
	Small	( 0.5 * 0 ) *	99%	* 175	) =	0 *	\$ 32.13 =	\$0	0
Total					<b>7,770</b>	<b>45</b>	<b>\$1,464</b>	<b>90</b>	

Table 13

**Respiratory Protection Program: Contract Cost for an Industrial Hygienist to Conduct Quantitative Fit Testing for Respirators**

This table calculates the contract cost for the industrial hygiene technician to conduct quantitative fit-testing.

$COST = ((QNFITCOST * QNFITEMP) * 1-\%FITBASE * \#PLANTS)$

\* QNFITCOST = \$38.00 hourly cost for a industrial hygiene technician \* # of hours

\* QNFITEMP = # Employees requiring annual quantitative fit-test

\* 1-%FITBASE = Percent of plants not conducting fit-testing (%FITBASE is the percent of plants conducting annual respirator fit-testing in the baseline)

\* #PLANTS = Number of plants represented by the model input

Variables		QNFITCOST	QNFITEMP	1-%FITBASE	#PLANTS	Item 13 COST
<b>Sector 1. Electroplating</b>						
ALL	Large	\$0	0	71%	1	\$ -
	Small	\$0	0	97%	1	\$ -
<b>Sector 2. Welding</b>						
GENERAL INDUSTRY	Large	\$77	0	81%	1	\$ -
	Small	\$77	0	98%	1	\$ -
MARITIME	Large	\$0	0	55%	1	\$ -
	Small	\$0	0	95%	1	\$ -
CONSTRUCTION	Large	\$0	0	88%	1	\$ -
	Small	\$0	0	99%	1	\$ -
GOVERNMENT	State	\$0	0	88%	1	\$ -
	Local	\$0	0	99%	1	\$ -
<b>Sector 2. Mild Steel Welding</b>						
GENERAL INDUSTRY	Large	\$77	0	81%	1	\$ -
	Small	\$77	0	98%	1	\$ -
MARITIME	Large	\$0	0	81%	1	\$ -
	Small	\$0	0	98%	1	\$ -
CONSTRUCTION	Large	\$0	0	81%	1	\$ -
	Small	\$0	0	98%	1	\$ -
<b>SECTOR 3. PAINTING</b>						
GENERAL INDUSTRY AEROSPACE	Large	\$0	0	81%	49	\$ -
	Small	\$0	0	98%	62	\$ -
GENERAL INDUSTRY AUTOBODY	Large	\$0	0	81%	326	\$ -
	Small	\$0	0	98%	1,436	\$ -
COIL COATING	Large	\$0	0	81%	100	\$ -
	Small	\$0	0	98%	18	\$ -
MARITIME	Large	\$0	0	55.00%	276	\$ -
	Small	\$0	0	95%	476	\$ -
	Large	\$0	0	0%	1	\$ -



Table 13

Variables		QNFCOST		QNITEMP		1-%FITBASE		#PLANTS			Item 13 COST
CONSTRUCTION	Small	(\$0	*	0	*	0%	*	1	)	= \$	-

Table 13

Variables		QNFITCOST		QNFITEMP		1-%FITBASE		#PLANTS		Item 13 COST
GOVERNMENT	State	(	\$0	*	0	*	0%	*	1	) = \$ -
	Local	(	\$0	*	0	*	0%	*	1	) = \$ -
SECTOR 4. Producers of Chromates										
ALL	Large	(	\$0	*	0	*	37%	*	2	) = \$ -
	Small	(	\$0	*	0	*	93%	*	0	) = \$ -
SECTOR 5. Chromate Pigment Procedures										
ALL	Large	(	\$0	*	0	*	37%	*	2	) = \$ -
	Small	(	\$0	*	0	*	93%	*	1	) = \$ -
SECTOR 6. CCA Producers										
ALL	Large	(	\$0	*	0	*	37%	*	2	) = \$ -
	Small	(	\$0	*	0	*	93%	*	0	) = \$ -
SECTOR 7. Chromium Catalyst Producers										
ALL	Large	(	\$0	*	0	*	37%	*	5	) = \$ -
	Small	(	\$0	*	0	*	93%	*	0	) = \$ -
SECTOR 8. Paint and Coating Producers										
ALL	Large	(	\$0	*	0	*	37%	*	80	) = \$ -
	Small	(	\$0	*	0	*	93%	*	126	) = \$ -
SECTOR 9. Printing Ink Producers										
ALL	Large	(	\$0	*	0	*	37%	*	2	) = \$ -
	Small	(	\$0	*	0	*	93%	*	8	) = \$ -
SECTOR 10. Plastic Colorant Producers and Users										
ALL	Large	(	\$0	*	0	*	54%	*	1	) = \$ -
	Small	(	\$0	*	0	*	95%	*	1	) = \$ -
SECTOR 11. Plating Mixture Producers										
ALL	Large	(	\$0	*	0	*	37%	*	6	) = \$ -
	Small	(	\$0	*	0	*	93%	*	4	) = \$ -
SECTOR 13. Chromium Metal Producers										
ALL	Large	(	\$0	*	0	*	56%	*	1	) = \$ -
	Small	(	\$0	*	0	*	95%	*	0	) = \$ -
SECTOR 14. Iron and Steel Mills										
ALL	Large	(	\$0	*	0	*	56%	*	34	) = \$ -
	Small	(	\$0	*	0	*	95%	*	11	) = \$ -
CARBON STEEL	Large	(	\$0	*	0	*	56%	*	102	) = \$ -
	Small	(	\$0	*	0	*	95%	*	32	) = \$ -
14b. RESHAPING INDUSTRY										
RESHAPING	Large	(	\$0	*	0	*	56%	*	33	) = \$ -
	Small	(	\$0	*	0	*	95%	*	31	) = \$ -
SECTOR 15. Iron and Steel Foundries										
	Large	(	\$0	*	0	*	56%	*	163	) = \$ -

Table 13

Variables		QNFCOST		QNITEMP		1-%FITBASE		#PLANTS		Item 13 COST
ALL	Small	(\$0	*	0	*	95%	*	118	)	= \$ -

Table 13

Variables		QNFITCOST		QNFITEMP		1-%FITBASE		#PLANTS		Item 13 COST
SECTOR 17. Chromium Dye Producers										
ALL	Large	(	\$0	*	0	*	37%	*	3	) = \$ -
	Small	(	\$0	*	0	*	93%	*	1	) = \$ -
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	(	\$0	*	0	*	37%	*	0	) = \$ -
	Small	(	\$0	*	0	*	93%	*	5	) = \$ -
SECTOR 19. Chemical Distributors										
ALL	Large	(	\$0	*	0	*	92%	*	216	) = \$ -
	Small	(	\$0	*	0	*	99%	*	1,627	) = \$ -
SECTOR 20. Textile Dyeing										
ALL	Large	(	\$0	*	0	*	89%	*	343	) = \$ -
	Small	(	\$0	*	0	*	99%	*	697	) = \$ -
SECTOR 21. Colored Glass Producers										
ALL	Large	(	\$0	*	0	*	76%	*	6	) = \$ -
	Small	(	\$0	*	0	*	97%	*	20	) = \$ -
Carbon, Flat, and Container Glass	Large	(	\$0	*	0	*	76%	*	90	) = \$ -
	Small	(	\$0	*	0	*	97%	*	5	) = \$ -
SECTOR 22. Printing										
ALL	Large	(	\$0	*	0	*	98%	*	81	) = \$ -
	Small	(	\$0	*	0	*	99.70%	*	325	) = \$ -
SECTOR 24. Chromium Catalyst Users										
Chromium Catalyst Users	Large	(	\$0	*	0	*	67%	*	1	) = \$ -
	Small	(	\$0	*	0	*	97%	*	0	) = \$ -
Chromium Catalyst Companies	Large	(	\$138	*	33	*	100%	*	1	) = \$ 4,559
	Small	(	\$13	*	33	*	100%	*	1	) = \$ 422
SECTOR 25. Refractory Brick Producers										
ALL	Large	(	\$0	*	0	*	76%	*	5	) = \$ -
	Small	(	\$0	*	0	*	97%	*	0	) = \$ -
SECTOR 26. Woodworking										
GENERAL INDUSTRY	Large	(	\$0	*	0	*	94%	*	1	) = \$ -
	Small	(	\$0	*	0	*	99%	*	1	) = \$ -
MARITIME	Large	(	\$0	*	0	*	55%	*	36	) = \$ -
	Small	(	\$0	*	0	*	95%	*	32	) = \$ -
CONSTRUCTION	Large	(	\$0	*	0	*	88%	*	1	) = \$ -
	Small	(	\$0	*	0	*	99%	*	1	) = \$ -
	State	(	\$0	*	0		88%		1	) = \$ -
Local	(	\$0	*	0		88%		1	) = \$ -	
SECTOR 27. Solid Waste Incineration										
Large	(	\$0	*	0	*	59%	*	40	) = \$ -	

Table 13

Variables		QNFCOST	QNITEMP	1-%FITBASE	#PLANTS	Item 13 COST
ALL	Small	(\$0	* 0	* 96%	* 48	) = \$ -

Table 13

Variables		QNFITCOST		QNFITEMP		1-%FITBASE		#PLANTS		Item 13 COST
GOVERNMENT	State	( \$0	*	0		59%		0	) = \$	-
	Local	( \$0	*	0		96%		24	) = \$	-
SECTOR 30. Superalloy Producers and Users										
ALL	Large	( \$0	*	0	*	56%	*	19	) = \$	-
	Small	( \$0	*	0	*	95%	*	0	) = \$	-
SECTOR 31. Construction										
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	( \$0	*	0	*	88%	*	51	) = \$	-
	Small	( \$0	*	0	*	99%	*	233	) = \$	-
	State	( \$0	*	0	*	88%	*	15	) = \$	-
	Local	( \$0	*	0	*	88%	*	88	) = \$	-
HAZARDOUS WASTE-SITE WORK	Large	( \$0	*	0	*	88%	*	1	) = \$	-
	Small	( \$0	*	0	*	99%	*	1	) = \$	-
	State	( \$0	*	0	*	88%	*	1	) = \$	-
REFRACTORY BRICK RESTORATION AND MAINTENANCE	Large	( \$0	*	0	*	88%	*	44	) = \$	-
	Small	( \$0	*	0	*	99%	*	175	) = \$	-
<b>Total</b>								<b>7,770</b>	<b>\$</b>	<b>4,981</b>

Table 14

**Respiratory-Protection Program: Medical Questionnaire for Respirator Use (§§ 1910.1026(g)(2), 1915.1026(f)(2), and 1926.1126(f)(2)); Employee Time and Cost to Complete the Medical Questionnaire for Respirator Use**

*This table calculates the burden hours and cost of employee time to complete a medical questionnaire. The hours and cost is determined by the number of employees who are at or above the action level and at or below the PEL by the time it takes to fill out the medical questionnaire and by non-supervisory wage rate.*

Hours = (EMPAL \* MEDHISTTIME \* 1-%FITBASE \* #PLANTS)

Cost = Hours x NONSUPEWAGE

Variables:

\* EMPAL = Number of employees who wear respirators who are at or above the AL and at or below the PEL in the model plant

\* MEDHISTTIME = Employee time to complete medical history questionnaire

\* 1-%FITBASE = Percent of plants not conducting annual respirator fit-test

\* #PLANTS = Number of plants represented by the model output

\* NONSUPEWAGE = Non-Supervisory wage rate

Variables			EMPAL	MEDHISTTIME	1-%FITBASE	#PLANTS		Hours	24.17%		Item 12 COST	RESPONSES
									NONSUPEWAGE			
<b>Sector 1. Electroplating</b>												
ALL	Large	(	1,848	* 0.17	* 71%	* 1	) =	223.11	* \$ 26.61	= \$	5,937	1,312
	Small	(	3,478	* 0.17	* 97%	* 1	) =	573.47	* \$ 26.61	= \$	15,260	3,373
<b>Sector 2. Welding</b>												
GENERAL INDUSTRY	Large	(	0	* 0.17	* 81%	* 1	) =	0.00	* \$ 26.20	=	0	0
	Small	(	0	* 0.17	* 98%	* 1	) =	0.00	* \$ 26.20	=	0	0
MARITIME	Large	(	2,330	* 0.17	* 55%	* 1	) =	217.81	* \$ 26.20	= \$	5,707	1,281
	Small	(	55	* 0.17	* 95%	* 1	) =	8.89	* \$ 26.20	= \$	233	52
CONSTRUCTION	Large	(	3,225	* 0.17	* 88%	* 1	) =	482.50	* \$ 26.20	= \$	12,641	2,838
	Small	(	2,494	* 0.17	* 99%	* 1	) =	419.71	* \$ 26.20	= \$	10,996	2,469
GOVERNMENT	State	(	14	* 0.17	* 88%	* 1	) =	2.17	* \$ 26.20	= \$	57	13
	Local	(	73	* 0.17	* 99%	* 1	) =	12.36	* \$ 26.20	= \$	324	73
<b>Sector 2. Mild Steel Welding</b>												
GENERAL INDUSTRY	Large	(	0	* 0.17	* 55%	* 1	) =	0.00	* \$ 26.20	=	0	0
	Small	(	0	* 0.17	* 95%	* 1	) =	0.00	* \$ 26.20	=	0	0
MARITIME	Large	(	16	* 0.17	* 88%	* 1	) =	2.46	* \$ 26.20	= \$	64	14
	Small	(	0	* 0.17	* 99%	* 1	) =	0.00	* \$ 26.20	=	0	0
CONSTRUCTION	Large	(	658	* 0.17	* 88%	* 1	) =	98.44	* \$ 26.20	= \$	2,579	579
	Small	(	529	* 0.17	* 99%	* 1	) =	89.11	* \$ 26.20	= \$	2,335	524
<b>SECTOR 3. PAINTING</b>												
GENERAL INDUSTRY AEROSPACE	Large	(	32	* 0.17	* 81%	* 49	) =	213.51	* \$ 33.07	= \$	7,060	1,256
	Small	(	0	* 0.17	* 98%	* 62	) =	0.00	* \$ 33.07	=	0	0
GENERAL INDUSTRY AUTOBODY REPAIR	Large	(	1	* 0.17	* 81%	* 326	) =	40.67	* \$ 33.07	= \$	1,345	239
	Small	(	0	* 0.17	* 98%	* 1,436	) =	0.00	* \$ 33.07	=	0	0
COIL COATING	Large	(	2	* 0.17	* 81%	* 100	) =	24.85	* \$ 33.07	= \$	822	146
	Small	(	1	* 0.17	* 98%	* 18	) =	2.73	* \$ 33.07	= \$	90	16

Table 14

Variables			EMPAL	MEDHISTTIME	1-%FITBASE	#PLANTS		Hours	NONSUPEWAGE	Item 12 COST	RESPONSES
MARITIME	Large	(	1 *	0.17 *	55.00% *	276 )	=	22.11 *	\$ 33.07 =	\$ 731	130
	Small	(	1 *	0.17 *	95% *	476 )	=	76.93 *	\$ 33.07 =	2543.756	453
CONSTRUCTION	Large	(	413 *	0.17 *	0% *	1 )	=	0.00 *	\$ 33.07 =	0	0
	Small	(	520 *	0.17 *	0% *	1 )	=	0.00 *	\$ 33.07 =	0	0
GOVERNMENT	State	(	31 *	0.17 *	0% *	1 )	=	0.00 *	\$ 33.07 =	0	0
	Local	(	133 *	0.17 *	0% *	1 )	=	0.00 *	\$ 33.07 =	0	0
SECTOR 4. Producers of Chromates											
ALL	Large	(	7 *	0.17 *	37% *	2 )	=	0.81 *	\$ 38.68 =	\$ 31	5
	Small	(	0 *	0.17 *	93% *	0 )	=	0.00 *	\$ 38.68 =	0	0
SECTOR 5. Chromate Pigment Procedures											
ALL	Large	(	5 *	0.17 *	37% *	2 )	=	0.00 *	\$ 37.70 =	0	4
	Small	(	1 *	0.17 *	93% *	1 )	=	0.00 *	\$ 37.70 =	0	1
SECTOR 6. CCA Producers											
ALL	Large	(	2 *	0.17 *	37% *	2 )	=	0.00 *	\$ 31.94 =	0	1
	Small	(	0 *	0.17 *	93% *	0 )	=	0.00 *	\$ 31.94 =	0	0
SECTOR 7. Chromium Catalyst Producers											
ALL	Large	(	11 *	0.17 *	37% *	5 )	=	3.46 *	\$ 38.68 =	\$ 134	20
	Small	(	0 *	0.17 *	93% *	0 )	=	0.00 *	\$ 38.68 =	0	0
SECTOR 8. Paint and Coating Producers											
ALL	Large	(	1 *	0.17 *	37% *	80 )	=	4.84 *	\$ 28.81 =	\$ 140	28
	Small	(	0 *	0.17 *	93% *	126 )	=	0.00 *	\$ 28.81 =	0	0
SECTOR 9. Printing Ink Producers											
ALL	Large	(	10 *	0.17 *	37% *	2 )	=	1.57 *	\$ 28.86 =	\$ 45	9
	Small	(	2 *	0.17 *	93% *	8 )	=	3.29 *	\$ 28.86 =	\$ 95	19
SECTOR 10. Plastic Colorant Producers and Users											
ALL	Large	(	342 *	0.17 *	54% *	1 )	=	31.38 *	\$ 31.99 =	\$ 1,004	185
	Small	(	35 *	0.17 *	95% *	1 )	=	5.58 *	\$ 31.99 =	\$ 178	33
SECTOR 11. Plating Mixture Producers											
ALL	Large	(	3 *	0.17 *	37% *	6 )	=	1.00 *	\$ 28.71 =	\$ 29	6
	Small	(	1 *	0.17 *	93% *	4 )	=	0.56 *	\$ 28.71 =	\$ 16	3
SECTOR 13. Chromium Metal Producers											
ALL	Large	(	7 *	0.17 *	56% *	1 )	=	0.63 *	\$ 38.80 =	\$ 24	4
	Small	(	0 *	0.17 *	95% *	0 )	=	0.00 *	\$ 38.80 =	0	0
SECTOR 14. Iron and Steel Mills											
ALL	Large	(	27 *	0.17 *	56% *	34 )	=	86.40 *	\$ 38.80 =	\$ 3,353	508
	Small	(	1 *	0.17 *	95% *	11 )	=	2.24 *	\$ 38.80 =	\$ 87	13
CARBON STEEL	Large	(	1 *	0.17 *	56% *	102 )	=	6.17 *	\$ 38.80 =	\$ 239	36
	Small	(	1 *	0.17 *	95% *	32 )	=	6.58 *	\$ 38.80 =	\$ 256	39
14b. RESHAPING											
RESHAPING	Large	(	3 *	0.17 *	56% *	33 )	=	8.07 *	\$ 38.80 =	\$ 313	47
	Small	(	1 *	0.17 *	95% *	31 )	=	3.23 *	\$ 38.80 =	\$ 125	19



Table 14

Variables		EMPAL	MEDHISTTIME	1-%FITBASE	#PLANTS		Hours	NONSUPEWAGE	Item 12 COST	RESPONSES
SECTOR 15. Iron and Steel Foundries										
ALL	Large	( 17 * 0.17 * 56% * 163 )	=	267.33 * \$ 28.31 = \$ 7,568	1,573					
	Small	( 4 * 0.17 * 95% * 118 )	=	78.53 * \$ 28.31 = \$ 2,223	462					
SECTOR 17. Chromium Dye Producers										
ALL	Large	( 29 * 0.17 * 37% * 3 )	=	4.89 * \$ 37.70 = \$ 184	29					
	Small	( 6 * 0.17 * 93% * 1 )	=	0.90 * \$ 37.70 = \$ 34	5					
SECTOR 18. Chromium Sulfate Producers										
ALL	Large	( 0 * 0.17 * 37% * 0 )	=	0.00 * \$ 41.50 = 0	0					
	Small	( 1 * 0.17 * 93% * 5 )	=	0.72 * \$ 41.50 = \$ 30	4					
SECTOR 19. Chemical Distributors										
ALL	Large	( 0 * 0.17 * 92% * 216 )	=	0.00 * \$ 29.92 = 0	0					
	Small	( 0 * 0.17 * 99% * 1,627 )	=	0.00 * \$ 29.92 = 0	0					
SECTOR 20. Textile Dyeing										
ALL	Large	( 0 * 0.17 * 89% * 343 )	=	0.00 * \$ 19.97 = 0	0					
	Small	( 0 * 0.17 * 99% * 697 )	=	0.00 * \$ 19.97 = 0	0					
SECTOR 21. Colored Glass Producers										
ALL	Large	( 1 * 0.17 * 76% * 6 )	=	0.85 * \$ 28.87 = \$ 25	5					
	Small	( 0 * 0.17 * 97% * 20 )	=	0.00 * \$ 28.87 = 0	0					
FIBER, FLAT, CONTAINER GLASS	Large	( 7 * 0.17 * 76% * 90 )	=	85.46 * \$ 28.87 = \$ 2,467	503					
	Small	( 1 * 0.17 * 97% * 5 )	=	0.91 * \$ 28.87 = \$ 26	5					
SECTOR 22. Printing										
ALL	Large	( 0 * 0.17 * 98% * 81 )	=	0.00 * \$ 20.85 = 0	0					
	Small	( 0 * 0.17 * 99.70% * 325 )	=	0.00 * \$ 20.85 = 0	0					
SECTOR 24. Chromium Catalyst Users										
ALL	Large	( 1 * 0.17 * 67% * 1 )	=	0.12 * \$ 32.51 = \$ 4	1					
	Small	( 0 * 0.17 * 97% * 0 )	=	0.00 * \$ 32.51 = 0	0					
Chromium Catalyst Companies	Large	( 119 * 0.17 * 0% * 1 )	=	0.00 * \$ 32.51 = 0	0					
	Small	( 0 * 0.17 * 0% * 1 )	=	0.00 * \$ 32.51 = 0	0					
SECTOR 25. Refractory Brick Producers										
ALL	Large	( 0 * 0.17 * 76% * 5 )	=	0.00 * \$ 25.64 = 0	0					
	Small	( 0 * 0.17 * 97% * 0 )	=	0.00 * \$ 25.64 = 0	0					
SECTOR 26. Woodworking										
GENERAL INDUSTRY	Large	( 0 * 0.17 * 94% * 1 )	=	0.00 * \$ 32.11 = 0	0					
	Small	( 0 * 0.17 * 99% * 1 )	=	0.00 * \$ 32.11 = 0	0					
MARITIME	Large	( 0 * 0.17 * 55% * 36 )	=	* \$ 32.11 = 0	0					
	Small	( 0 * 0.17 * 95% * 32 )	=	0.00 * \$ 32.11 = 0	0					
CONSTRUCTION	Large	( 0 * 0.17 * 88% * 1 )	=	0.00 * \$ 32.11 = 0	0					
	Small	( 0 * 0.17 * 99% * 1 )	=	0.00 * \$ 32.11 = 0	0					
GOVERNMENT	State	( 0 * 0.17 * 88% * 1 )	=	0.00 * \$ 32.11 = 0	0					
	Local	( 0 * 0.17 * 88% * 1 )	=	0.00 * \$ 32.11 = 0	0					

Table 14

Variables		EMPAL	MEDHISTTIME	1-%FITBASE	#PLANTS		Hours	NONSUPEWAGE	Item 12 COST	RESPONSES		
SECTOR 27. Solid Waste Incineration												
ALL	Large	(	0 *	0.17 *	59%	*	40 )	=	0.00 *	\$ 27.23 =	0	0
	Small	(	0 *	0.17 *	96%	*	48 )	=	0.00 *	\$ 27.23 =	0	0
GOVERNMENT	State	(	0 *	0.17 *	59%	*	0 )	=	0.00 *	\$ 27.23	0	0
	Local	(	0 *	0.17 *	96%	*	24 )	=	0.00 *	\$ 27.23	0	0
SECTOR 30. Superalloy Producers and Users												
ALL	Large	(	0 *	0.17 *	56%	*	19 )	=	0.00 *	\$ 27.93 =	0	0
	Small	(	0 *	0.17 *	95%	*	0 )	=	0.00 *	\$ 27.93 =	0	0
SECTOR 31. Construction												
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	(	0 *	0.17 *	88%	*	51 )	=	0.00 *	\$ 32.13 =	0	0
	Small	(	0 *	0.17 *	99%	*	233 )	=	0.00 *	\$ 32.13 =	0	0
	State	(	0 *	0.17 *	88%	*	15 )	=	0.00 *	\$ 32.13 =	0	0
	Local	(	0 *	0.17 *	88%	*	88 )	=	0.00 *	\$ 32.13 =	0	0
HAZARDOUS WASTE-SITE WORK	Large	(	0 *	0.17 *	88%	*	1 )	=	0.00 *	\$ 32.13 =	0	0
	Small	(	0 *	0.17 *	99%	*	1 )	=	0.00 *	\$ 32.13 =	0	0
	State	(	0 *	0.17 *	88%	*	1 )	=	0.00 *	\$ 32.13 =	0	0
REFRACTORY BRICK RESTORATION	Local	(	0 *	0.17 *	88%	*	1 )	=	0.00 *	\$ 32.13 =	0	0
	Large	(	0 *	0.17 *	88%	*	44 )	=	0.00 *	\$ 32.13 =	0	0
	Small	(	0 *	0.17 *	99%	*	175 )	=	0.00 *	\$ 32.13 =	0	0
<b>Total</b>					<b>7,770</b>		<b>3,116</b>		<b>\$ 87,355</b>	<b>18,337</b>		

Table 15

**Respiratory Protection Program: Medical Questionnaire for Respirator Use (§§ 1910.1026(g)(2), 1915.1026(f)(2), and 1926.1126(f)(2)); Contract Cost for a PLHCP to Review the Medical Questionnaire for Respirator Use**

This table calculates the contract cost of the medical questionnaire and review by the licensed physician.

$COST = (EMPAL * MEDHISTCOST * 1\%FITBASE * \#PLANTS)$

- \* EMPAL = Number of employees who wear respirators who are at or above the AL and at or below the PEL in the model plant
- \* MEDHISTCOST = Cost of medical history questionnaire to be reviewed by a PLHCP.
- \* 1-%FITBASE = Percent of plants not conducting annual respirator fit-test
- \* #PLANTS = Number of plants represented by the model output

Variables		EMPAL	MEDHISTCOST	1-%FITBASE	#PLANTS	Item 13 COST
<b>Sector 1. Electroplating</b>						
ALL	Large	( 1,848 * \$	45.56 * \$	71% * \$	1 ) = \$	59,790.08
	Small	( 3,478 * \$	45.56 * \$	97% * \$	1 ) = \$	153,682.05
<b>Sector 2. Welding</b>						
GENERAL INDUSTRY	Large	( 0 * \$	45.56 * \$	81% * \$	1 ) = \$	-
	Small	( 0 * \$	45.56 * \$	98% * \$	1 ) = \$	-
MARITIME	Large	( 2,330 * \$	45.56 * \$	55% * \$	1 ) = \$	58,371.26
	Small	( 55 * \$	45.56 * \$	95% * \$	1 ) = \$	2,383.62
CONSTRUCTION	Large	( 3,225 * \$	45.56 * \$	88% * \$	1 ) = \$	129,302.87
	Small	( 2,494 * \$	45.56 * \$	99% * \$	1 ) = \$	112,476.64
GOVERNMENT	State	( 14 * \$	45.56 * \$	88% * \$	1 ) = \$	581.05
	Local	( 73 * \$	45.56 * \$	99% * \$	1 ) = \$	3,311.98
<b>Sector 2. Mild Steel Welding</b>						
GENERAL INDUSTRY	Large	( 0 * \$	45.56 * \$	81% * \$	1 ) = \$	-
	Small	( 0 * \$	45.56 * \$	98% * \$	1 ) = \$	-
MARITIME	Large	( 16 * \$	45.56 * \$	55% * \$	1 ) = \$	411.58
	Small	( 0 * \$	45.56 * \$	95% * \$	1 ) = \$	-
CONSTRUCTION	Large	( 658 * \$	45.56 * \$	88% * \$	1 ) = \$	26,379.64
	Small	( 529 * \$	45.56 * \$	99% * \$	1 ) = \$	23,881.13
<b>SECTOR 3. PAINTING</b>						
GENERAL INDUSTRY (AEROSPACE)	Large	( 32 * \$	45.56 * \$	81% * \$	49 ) = \$	57,218.62
	Small	( 0 * \$	45.56 * \$	98% * \$	62 ) = \$	-
GENERAL INDUSTRY (AUTOBODY REPAIR)	Large	( 1 * \$	45.56 * \$	81% * \$	326 ) = \$	10,898.79
	Small	( 0 * \$	45.56 * \$	98% * \$	1,436 ) = \$	-
GENERAL INDUSTRY (COIL COATING)	Large	( 2 * \$	45.56 * \$	81% * \$	100 ) = \$	6,660.37
	Small	( 1 * \$	45.56 * \$	98% * \$	18 ) = \$	732.57
MARITIME	Large	( 1 * \$	45.56 * \$	55.00% * \$	276 ) = \$	6,903.28
	Small	( 1 * \$	45.56 * \$	95% * \$	476 ) = \$	20,616.00

Table 15

Variables		EMPAL	MEDHICOST	1-%FITBASE	#PLANTS	Item 13 COST	
CONSTRUCTION	Large	( 413 * \$ 45.56 * 0% * 1 ) = \$	-				
	Small	( 520 * \$ 45.56 * 0% * 1 ) = \$	-				
GOVERNMENT	State	( 31 * \$ 45.56 * 0% * 1 ) = \$	-				
	Local	( 133 * \$ 45.56 * 0% * 1 ) = \$	-				
SECTOR 4. Producers of Chromates							
ALL	Large	( 7 * \$ 45.56 * 37% * 2 ) = \$	216.37				
	Small	( 0 * \$ 45.56 * 93% * 0 ) = \$	-				
SECTOR 5. Chromate Pigment Procedures							
ALL	Large	( 5 * \$ 45.56 * 37% * 2 ) = \$	163.76				
	Small	( 1 * \$ 45.56 * 93% * 1 ) = \$	34.30				
SECTOR 6. CCA Producers							
ALL	Large	( 2 * \$ 45.56 * 37% * 2 ) = \$	62.78				
	Small	( 0 * \$ 45.56 * 93% * 0 ) = \$	-				
SECTOR 7. Chromium Catalyst Producers							
ALL	Large	( 11 * \$ 45.56 * 37% * 5 ) = \$	927.28				
	Small	( 0 * \$ 45.56 * 93% * 0 ) = \$	-				
SECTOR 8. Paint and Coating Producers							
ALL	Large	( 1 * \$ 45.56 * 37% * 80 ) = \$	1,298.20				
	Small	( 0 * \$ 45.56 * 93% * 126 ) = \$	-				
SECTOR 9. Printing Ink Producers							
ALL	Large	( 10 * \$ 45.56 * 37% * 2 ) = \$	420.72				
	Small	( 2 * \$ 45.56 * 93% * 8 ) = \$	881.24				
SECTOR 10. Plastic Colorant Producers and Users							
ALL	Large	( 342 * \$ 45.56 * 54% * 1 ) = \$	8,409.99				
	Small	( 35 * \$ 45.56 * 95% * 1 ) = \$	1,494.87				
SECTOR 11. Plating Mixture Producers							
ALL	Large	( 3 * \$ 45.56 * 37% * 6 ) = \$	268.43				
	Small	( 1 * \$ 45.56 * 93% * 4 ) = \$	149.93				
SECTOR 13. Chromium Metal Producers							
ALL	Large	( 7 * \$ 45.56 * 56% * 1 ) = \$	168.33				
	Small	( 0 * \$ 45.56 * 95% * 0 ) = \$	-				
SECTOR 14. Iron and Steel Mills							
Alloy and Stainless Steel	Large	( 27 * \$ 45.56 * 56% * 34 ) = \$	23,154.89				
	Small	( 1 * \$ 45.56 * 95% * 11 ) = \$	599.97				
Carbon Steel	Large	( 1 * \$ 45.56 * 56% * 102 ) = \$	1,653.92				
	Small	( 1 * \$ 45.56 * 95% * 32 ) = \$	1,764.63				
14b. RESHAPING INDUSTRY							
Reshaping Industry	Large	( 3 * \$ 45.56 * 56% * 33 ) = \$	2,163.62				
	Small	( 1 * \$ 45.56 * 95% * 31 ) = \$	864.67				

Table 15

Variables		EMPAL	MEDHISTCOST	1-%FITBASE	#PLANTS			Item 13 COST
SECTOR 15. Iron and Steel Foundries								
ALL	Large	(	17 * \$	45.56 *	56% *	163	) = \$	71,640.46
	Small	(	4 * \$	45.56 *	95% *	118	) = \$	21,044.66
SECTOR 17. Chromium Dye Producers								
ALL	Large	(	29 * \$	45.56 *	37% *	3	) = \$	1,310.08
	Small	(	6 * \$	45.56 *	93% *	1	) = \$	240.11
SECTOR 18. Chromium Sulfate Producers								
ALL	Large	(	0 * \$	45.56 *	37% *	0	) = \$	-
	Small	(	1 * \$	45.56 *	93% *	5	) = \$	194.23
SECTOR 19. Chemical Distributors								
ALL	Large	(	0 * \$	45.56 *	92% *	216	) = \$	-
	Small	(	0 * \$	45.56 *	99% *	1,627	) = \$	-
SECTOR 20. Textile Dyeing								
ALL	Large	(	0 * \$	45.56 *	89% *	343	) = \$	-
	Small	(	0 * \$	45.56 *	99% *	697	) = \$	-
SECTOR 21. Colored Glass Producers								
ALL	Large	(	1 * \$	45.56 *	76% *	6	) = \$	228.25
	Small	(	0 * \$	45.56 *	97% *	20	) = \$	-
FIBER, FLAT AND CONTAINER GLASS	Large	(	7 * \$	45.56 *	76% *	90	) = \$	22,900.92
	Small	(	1 * \$	45.56 *	97% *	5	) = \$	242.76
SECTOR 22. Printing								
ALL	Large	(	0 * \$	45.56 *	98% *	81	) = \$	-
	Small	(	0 * \$	45.56 *	99.70% *	325	) = \$	-
SECTOR 24. Chromium Catalyst Users								
ALL	Large	(	1 * \$	45.56 *	67% *	1	) = \$	33.50
	Small	(	0 * \$	45.56 *	97% *	0	) = \$	-
Chromium Catalyst Companies	Large	(	119 \$	45.56 *	0% *	1	) = \$	-
	Small	(	0 \$	45.56 *	0% *	1	) = \$	-
SECTOR 25. Refractory Brick Producers								
ALL	Large	(	0 * \$	45.56 *	76% *	5	) = \$	-
	Small	(	0 * \$	45.56 *	97% *	0	) = \$	-
SECTOR 26. Woodworking								
GENERAL INDUSTRY	Large	(	0 * \$	45.56 *	94% *	1	) = \$	-
	Small	(	0 * \$	45.56 *	99% *	1	) = \$	-
MARITIME	Large	(	0 * \$	45.56 *	55% *	36	) = \$	-
	Small	(	0 * \$	45.56 *	95% *	32	) = \$	-
CONSTRUCTION	Large	(	0 * \$	45.56 *	88% *	1	) = \$	-
	Small	(	0 * \$	45.56 *	99% *	1	) = \$	-

Table 15

Variables		EMPAL	MEDHISTCOST	1-%FITBASE	#PLANTS	Item 13 COST	
Government	State	( 0 * \$ 45.56 * 88% * 1 ) = \$					-
	Local	( 0 * \$ 45.56 * 88% * 1 ) = \$					-
<b>SECTOR 27. Solid Waste Incineration</b>							
ALL	Large	( 0 \$ 45.56 59% 40 ) = \$					-
	Small	( 0 * \$ 45.56 * 96% * 48 ) = \$					-
Government	State	( 0 \$ 45.56 59% 0 ) = \$					-
	Local	( 0 \$ 45.56 96% 24 ) = \$					-
<b>SECTOR 30. Superalloy Producers and Users</b>							
ALL	Large	( 0 * \$ 45.56 * 56% * 19 ) = \$					-
	Small	( 0 * \$ 45.56 * 95% * 0 ) = \$					-
<b>SECTOR 31. Construction</b>							
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	( 0 * \$ 45.56 * 88% * 51 ) = \$					-
	Small	( 0 * \$ 45.56 * 99% * 233 ) = \$					-
	State	( 0 * \$ 45.56 * 88% * 15 ) = \$					-
	Local	( 0 * \$ 45.56 * 88% * 88 ) = \$					-
HAZARDOUS WASTE-SITE WORK	Large	( 0 * \$ 45.56 * 88% * 1 ) = \$					-
	Small	( 0 * \$ 45.56 * 99% * 1 ) = \$					-
	State	( 0 * \$ 45.56 * 88% * 1 ) = \$					-
	Local	( 0 * \$ 45.56 * 88% * 1 ) = \$					-
REFRACTORY BRICK RESTORATION	Large	( 0 * \$ 45.56 * 88% * 44 ) = \$					-
	Small	( 0 * \$ 45.56 * 99% * 175 ) = \$					-
<b>Total</b>					<b>7,770</b>	<b>\$</b>	<b>836,134</b>

Table 16

**Respiratory Protection Program: Follow-up Medical Examination for Respirator Use (§§ 1910.1026(g)(2), 1915.1026(f)(2), and 1926.1126(f)(2)); Employee Time and Cost to Complete the Medical Examination for Respirator Use**

*This table calculates the burden hour and cost estimate for employees that "fail" the medical history questionnaire. It is estimated that 23% (EMPMEDEXAM) will not pass the medical questionnaire*

BURDEN HOURS = (EMPAL \* RESPEXAMTIME \* %EMPMEDEXAM \* 1-%FITBASE \* PLANTS)  
 COST = BURDEN HOURS \* NONSUPEWAGE

- \* EMPAL = Number of employees who wear respirators who are at or above the AL and at or below the PEL in the model plant
- \* RESPEXAMTIME = Employee time, in hours, for medical exam for respirator use
- \* %EMPMEDEXAM = Percent of employees that will require a medical exam for respirator use
- \* 1-%FITBASE = Percent of plants not conducting annual respirator fit-test
- \* #PLANTS = Number of plants represented by the model output
- \* NONSUPEWAGE = Non-Supervisory wage rate
- \* %EMPMEDEXAM = Percent of employees who "fail" an initial medical exam

24.17%

		EMPAL	RESPEXAMTIME	%EMPMEDEXAM	1-%FITBASE	#PLANTS	HOURS	NONSUPEWAGE	Item 12 COST	Responses
<b>Sector 1. Electroplating</b>										
ALL	Large	( 1,848 * 3 * 23% * 71% * 1 =					905.56 * \$	26.61 \$	24,096.36	302
	Small	( 3,478 * 3 * 23% * 97% * 1 =					2327.62 * \$	21.43 \$	49,880.85	776
<b>Sector 2. Welding</b>										
GENERAL INDUSTRY	Large	( 0 * 3 * 23% * 81% * 1 =					0.00 * \$	21.10 \$	-	0
	Small	( 0 * 3 * 23% * 98% * 1 =					0.00 * \$	21.10 \$	-	0
MARITIME	Large	( 2,330 * 3 * 23% * 55% * 1 =					884.07 * \$	21.10 \$	18,653.92	295
	Small	( 55 * 3 * 23% * 95% * 1 =					36.10 * \$	21.10 \$	761.74	12
CONSTRUCTION	Large	( 3,225 * 3 * 23% * 88% * 1 =					1958.38 * \$	21.10 \$	41,321.79	653
	Small	( 2,494 * 3 * 23% * 99% * 1 =					1703.53 * \$	21.10 \$	35,944.57	568
GOVERNMENT	State	( 14 * 3 * 23% * 88% * 1 =					8.80 * \$	21.10 \$	185.69	3
	Local	( 73 * 3 * 23% * 99% * 1 =					50.16 * \$	21.10 \$	1,058.42	17
<b>Sector 2. Mild Steel Welding</b>										
GENERAL INDUSTRY	Large	( 0 * 3 * 23% * 81% * 1 =					0.00 * \$	21.10 \$	-	0
	Small	( 0 * 3 * 23% * 98% * 1 =					0.00 * \$	21.10 \$	-	0
MARITIME	Large	( 16 * 3 * 23% * 55% * 1 =					6.23 * \$	21.10 \$	131.53	2
	Small	( 0 * 3 * 23% * 95% * 1 =					0.00 * \$	21.10 \$	-	0
CONSTRUCTION	Large	( 658 * 3 * 23% * 88% * 1 =					399.54 * \$	21.10 \$	8,430.24	133
	Small	( 529 * 3 * 23% * 99% * 1 =					361.70 * \$	21.10 \$	7,631.78	121
<b>SECTOR 3. PAINTING</b>										
GENERAL INDUSTRY (AEROSPACE)	Large	( 32 * 3 * 23% * 81% * 49 =					866.61 * \$	26.63 \$	23,077.94	289
	Small	( 0 * 3 * 23% * 98% * 62 =					0.00 * \$	26.63 \$	-	0
GENERAL INDUSTRY (AUTOBODY REPAIR)	Large	( 1 * 3 * 23% * 81% * 326 =					165.07 * \$	26.63 \$	4,395.80	55
	Small	( 0 * 3 * 23% * 98% * 1,436 =					0.00 * \$	26.63 \$	-	0
GENERAL INDUSTRY (COIL COATING)	Large	( 2 * 3 * 23% * 81% * 100 =					100.88 * \$	26.63 \$	2,686.32	34
	Small	( 1 * 3 * 23% * 98% * 18 =					11.10 * \$	26.63 \$	295.47	4

Table 16

		EMPAL	RESPEXAMTIME	%EMPMEDEXAM	1-%FITBASE	#PLANTS	HOURS	NONSUPEWAGE	Item 12 COST	Responses
MARITIME	Large	( 1 * 3 * 23% * 55.00% * 276 = 89.74 * 26.63 \$ 2,389.70	30							
	Small	( 1 * 3 * 23% * 95% * 476 = 312.24 * 26.63 \$ 8,315.04	104							
CONSTRUCTION	Large	( 413 * 3 * 23% * 0% * 1 = 0.00 * 26.63 \$ -	0							
	Small	( 520 * 3 * 23% * 0% * 1 = 0.00 * 26.63 \$ -	0							
GOVERNMENT	State	( 31 3 23% 0% 1 0.00 26.63 \$ -	0							
	Local	( 133 3 23% 0% 1 0.00 26.63 \$ -	0							
SECTOR 4. Producers of Chromates										
ALL	Large	( 7 * 3 * 23% * 37% * 2 = 3.28 * 31.15 \$ 102.08	1							
	Small	( 0 * 3 * 23% * 93% * 0 = 0.00 * 31.15 \$ -	0							
SECTOR 5. Chromate Pigment Procedures										
ALL	Large	( 5 * 3 * 23% * 37% * 2 = 2.48 * 30.36 \$ 75.30	1							
	Small	( 1 * 3 * 23% * 93% * 1 = 0.52 * 30.36 \$ 15.77	0							
SECTOR 6. CCA Producers										
ALL	Large	( 2 * 3 * 23% * 37% * 2 = 0.95 * 25.72 \$ 24.46	0							
	Small	( 0 * 3 * 23% * 93% * 0 = 0.00 * 25.72 \$ -	0							
SECTOR 7. Chromium Catalyst Producers										
ALL	Large	( 11 * 3 * 23% * 37% * 5 = 14.04 * 31.15 \$ 437.48	5							
	Small	( 0 * 3 * 23% * 93% * 0 = 0.00 * 31.15 \$ -	0							
SECTOR 8. Paint and Coating Producers										
ALL	Large	( 1 * 3 * 23% * 37% * 80 = 19.66 * 23.20 \$ 456.16	7							
	Small	( 0 * 3 * 23% * 93% * 126 = 0.00 * 23.20 \$ -	0							
SECTOR 9. Printing Ink Producers										
ALL	Large	( 10 * 3 * 23% * 37% * 2 = 6.37 * 23.24 \$ 148.09	2							
	Small	( 2 * 3 * 23% * 93% * 8 = 13.35 * 23.24 \$ 310.18	4							
SECTOR 10. Plastic Colorant Producers and Users										
ALL	Large	( 342 * 3 * 23% * 54% * 1 = 127.37 * 25.76 \$ 3,281.18	42							
	Small	( 35 * 3 * 23% * 95% * 1 = 22.64 * 25.76 \$ 583.23	8							
SECTOR 11. Plating Mixture Producers										
ALL	Large	( 3 * 3 * 23% * 37% * 6 = 4.07 * 23.12 \$ 94.00	1							
	Small	( 1 * 3 * 23% * 93% * 4 = 2.27 * 23.12 \$ 52.50	1							
SECTOR 13. Chromium Metal Producers										
ALL	Large	( 7 * 3 * 23% * 56% * 1 = 2.55 * 31.25 \$ 79.67	1							
	Small	( 0 * 3 * 23% * 95% * 0 = 0.00 * 31.25 \$ -	0							
SECTOR 14. Iron and Steel Mills										
Alloy and Stainless Steel	Large	( 27 * 3 * 23% * 56% * 34 = 350.70 * 31.25 \$ 10,959.26	117							
	Small	( 1 * 3 * 23% * 95% * 11 = 9.09 * 31.25 \$ 283.97	3							
Carbon Steel	Large	( 1 * 3 * 23% * 56% * 102 = 25.05 * 31.25 \$ 782.80	8							
	Small	( 1 * 3 * 23% * 95% * 32 = 26.73 * 31.25 \$ 835.20	9							



Table 16

		EMPAL	RESPEXAMTIME	%EMPMEDEXAM	1-%FITBASE	#PLANTS	HOURS	NONSUPEWAGE	Item 12 COST	Responses	
SECTOR 14B. Forging Industry											
RESHAPING INDUSTRY	Large	(	3 *	3 *	23% *	56% *	33 =	32.77 *	31.25 \$	1,024.05	11
	Small	(	1 *	3 *	23% *	95% *	31 =	13.10 *	31.25 \$	409.25	4
SECTOR 15. Iron and Steel Foundries											
ALL	Large	(	17 *	3 *	23% *	56% *	163 =	1085.04 *	22.8 \$	24,738.98	362
	Small	(	4 *	3 *	23% *	95% *	118 =	318.74 *	22.8 \$	7,267.17	106
SECTOR 17. Chromium Dye Producers											
ALL	Large	(	29 *	3 *	23% *	37% *	3 =	19.84 *	30.36 \$	602.40	7
	Small	(	6 *	3 *	23% *	93% *	1 =	3.64 *	30.36 \$	110.41	1
SECTOR 18. Chromium Sulfate Producers											
ALL	Large	(	0 *	3 *	23% *	37% *	0 =	0.00 *	33.42 \$	-	0
	Small	(	1 *	3 *	23% *	93% *	5 =	2.94 *	33.42 \$	98.31	1
SECTOR 19. Chemical Distributors											
ALL	Large	(	0 *	3 *	23% *	92% *	216 =	0.00 *	24.1 \$	-	0
	Small	(	0 *	3 *	23% *	99% *	1,627 =	0.00 *	24.1 \$	-	0
SECTOR 20. Textile Dyeing											
ALL	Large	(	0 *	3 *	23% *	89% *	343 =	0.00 *	16.08 \$	-	0
	Small	(	0 *	3 *	23% *	99% *	697 =	0.00 *	16.08 \$	-	0
SECTOR 21. Colored Glass Producers											
ALL	Large	(	1 *	3 *	23% *	76% *	6 =	3.46 *	23.25 \$	80.37	1
	Small	(	0 *	3 *	23% *	97% *	20 =	0.00 *	23.25 \$	-	0
Fiber, Flat and Container Glass	Large	(	7 *	3 *	23% *	76% *	90 =	346.85 *	23.25 \$	8,064.26	116
	Small	(	1 *	3 *	23% *	97% *	5 =	3.68 *	23.25 \$	85.49	1
SECTOR 22. Printing											
ALL	Large	(	0 *	3 *	23% *	98% *	81 =	0.00 *	16.79 \$	-	0
	Small	(	0 *	3 *	23% *	99.70% *	325 =	0.00 *	16.79 \$	-	0
SECTOR 24. Chromium Catalyst Users											
ALL	Large	(	1 *	3 *	23% *	67% *	1 =	0.51 *	26.18 \$	13.28	0
	Small	(	0 *	3 *	23% *	0% *	0 =	0.00 *	26.18 \$	-	0
Chromium Catalyst Companies	Large	(	119 *	3 *	23% *	0% *	1 =	0.00 *	26.18 \$	-	0
	Small	(	0 *	3 *	23% *	97% *	1 =	0.00 *	26.18 \$	-	0
SECTOR 25. Refractory Brick Producers											
ALL	Large	(	0 *	3 *	23% *	76% *	5 =	0.00 *	20.65 \$	-	0
	Small	(	0 *	3 *	23% *	97% *	0 =	0.00 *	20.65 \$	-	0
SECTOR 26. Woodworking											
GENERAL INDUSTRY	Large	(	0 *	3 *	23% *	94% *	1 =	0.00 *	18.59 \$	-	0
	Small	(	0 *	3 *	23% *	99% *	1 =	0.00 *	18.59 \$	-	0
MARITIME	Large	(	0 *	3 *	23% *	55% *	36 =	0.00 *	18.59 \$	-	0
	Small	(	0 *	3 *	23% *	95% *	32 =	0.00 *	18.59 \$	-	0

Table 16

		EMPAL	RESPEXAMTIME	%EMPMEDEXAM	1-%FITBASE	#PLANTS	HOURS	NONSUPEWAGE	Item 12 COST	Responses
CONSTRUCTION	Large	( 0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0								
	Small	( 0 * 3 * 23% * 99% * 1 = 0.00 * 18.59 \$ - 0								
GOVERNMENT	State	( 0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0								
	Local	( 0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0								
SECTOR 27. Solid Waste Incineration										
ALL	Large	( 0 * 3 * 23% * 59% * 40 = 0.00 * 21.93 \$ - 0								
	Small	( 0 * 3 * 23% * 96% * 48 = 0.00 * 21.93 \$ - 0								
GOVERNMENT	State	( 0 * 3 * 23% * 59% * 0 = 0.00 * 21.93 \$ - 0								
	Local	( 0 * 3 * 23% * 96% * 24 = 0.00 * 21.93 \$ - 0								
SECTOR 30. Superalloy Producers and Users										
ALL	Large	( 0 * 3 * 23% * 56% * 19 = 0.00 * 22.49 \$ - 0								
	Small	( 0 * 3 * 23% * 95% * 0 = 0.00 * 22.49 \$ - 0								
SECTOR 31. Construction										
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	( 0 * 3 * 23% * 88% * 51 = 0.00 25.88 \$ - 0								
	Small	( 0 * 3 * 23% * 99% * 233 = 0.00 25.88 \$ - 0								
	State	( 0 * 3 * 23% * 88% * 15 = 0.00 25.88 \$ - 0								
	Local	( 0 * 3 * 23% * 88% * 88 = 0.00 25.88 \$ - 0								
HAZARDOUS WASTE-SITE WORK	Large	( 0 * 3 * 23% * 88% * 1 = 0.00 * 25.88 \$ - 0								
	Small	( 0 * 3 * 23% * 99% * 1 = 0.00 * 25.88 \$ - 0								
	State	( 0 * 3 * 23% * 88% * 1 = 0.00 * 25.88 \$ - 0								
REFRACTORY BRICK RESTORATION	Large	( 0 * 3 * 23% * 88% * 44 = 0.00 * 25.88 \$ - 0								
	Small	( 0 * 3 * 23% * 99% * 175 = 0.00 * 25.88 \$ - 0								
				<b>Total</b>		<b>7,770</b>	<b>12,649</b>	<b>\$ 290,272</b>	<b>4,216</b>	

Table 17

**Respiratory Protection Program: Follow-up Medical Examination for Respirator Use;  
Contract Cost for a PLHCP to Conduct the Medical Examination for Respirator Use**

Employers must use a PLHCP to conduct the follow-up medical examination. The follow-up medical examination allows PLHCPs to obtain additional information that may be useful in arriving at a final medical recommendation regarding respirator use.

$COST = (EMPAL * RESPEXAMCOST * \%EMPMEDEXAM * 1-\%FITBASE * \#PLANTS)$

\* EMPAL = Number of employees who wear respirators for more than 5 hours/week and who are at or above the AL and at or below the PEL in the model plant

\* RESPEXAMCOST = Cost for medical exam for respirator use

\* %EMPMEDEXAM = Percent of employees that will require a medical exam for respirator use

\* 1-%FITBASE = Percent of plants not conducting annual respirator fit-test

\* #PLANTS = Number of plants represented by the model output

		EMPAL	RESPEXAMCOST	%EMPMEDEXAM	1-%FITBASE	#PLANTS	Item 13 Cost
<b>Sector 1. Electroplating</b>							
ALL	Large	1,848 *	\$ 136.66 *	23% *	71% *	1	\$ 41,251.29
	Small	3,478 *	\$ 136.66 *	23% *	97% *	1	\$ 106,030.66
<b>Sector 2. Welding</b>							
GENERAL INDUSTRY	Large	0 *	\$ 136.66 *	23% *	81% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	98% *	1	\$ -
MARITIME	Large	2,330 *	\$ 136.66 *	23% *	55% *	1	\$ 40,272.39
	Small	55 *	\$ 136.66 *	23% *	95% *	1	\$ 1,644.55
CONSTRUCTION	Large	3,225 *	\$ 136.66 *	23% *	88% *	1	\$ 89,210.61
	Small	2,494 *	\$ 136.66 *	23% *	99% *	1	\$ 77,601.60
GOVERNMENT	State	14 *	\$ 136.66 *	23% *	88% *	1	\$ 400.89
	Local	73 *	\$ 136.66 *	23% *	99% *	1	\$ 2,285.05
<b>Sector 2. Mild Steel Welding</b>							
GENERAL INDUSTRY	Large	0 *	\$ 136.66 *	23% *	81% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	98% *	1	\$ -
MARITIME	Large	16 *	\$ 136.66 *	23% *	55% *	1	\$ 283.96
	Small	0 *	\$ 136.66 *	23% *	95% *	1	\$ -
CONSTRUCTION	Large	658 *	\$ 136.66 *	23% *	88% *	1	\$ 18,200.25
	Small	529 *	\$ 136.66 *	23% *	99% *	1	\$ 16,476.43
<b>SECTOR 3. PAINTING</b>							
GENERAL INDUSTRY AEROSPACE	Large	46 *	\$ 136.66 *	23% *	81% *	49	\$ 57,273.68
	Small	0 *	\$ 136.66 *	23% *	98% *	62	\$ -

Table 17

		EMPAL	RESPEXAMCOST	%EMPMEDEXAM	1-%FITBASE	#PLANTS	Item 13 Cost
GENERAL INDUSTRY AUTOBODY	Large	1 *	\$ 136.66 *	23% *	81% *	326	\$ 7,519.46
	Small	0 *	\$ 136.66 *	23% *	98% *	1,436	\$ -
COIL COATINGS	Large	2 *	\$ 136.66 *	23% *	81% *	100	\$ 4,595.22
	Small	1 *	\$ 136.66 *	23% *	98% *	18	\$ 505.42
MARITIME	Large	1 *	\$ 136.66 *	23% *	55.00% *	276	\$ 4,087.81
	Small	1 *	\$ 136.66 *	23% *	95% *	476	\$ 14,223.71
CONSTRUCTION	Large	413 *	\$ 136.66 *	23% *	0% *	1	\$ -
	Small	520 *	\$ 136.66 *	23% *	0% *	1	\$ -
GOVERNMENT	State	31 *	\$ 136.66 *	23% *	0% *	1	\$ -
	Local	133 *	\$ 136.66 *	23% *	0% *	1	\$ -
SECTOR 4. Producers of Chromates							\$ -
ALL	Large	7 *	\$ 136.66 *	23% *	37% *	2	\$ 149.28
	Small	0 *	\$ 136.66 *	23% *	93% *	0	\$ -
SECTOR 5. Chromate Pigment Procedures							
ALL	Large	5 *	\$ 136.66 *	23% *	37% *	2	\$ 112.98
	Small	1 *	\$ 136.66 *	23% *	93% *	1	\$ 23.67
SECTOR 6. CCA Producers							\$ -
ALL	Large	2 *	\$ 136.66 *	23% *	37% *	2	\$ 43.32
	Small	0 *	\$ 136.66 *	23% *	93% *	0	\$ -
SECTOR 7. Chromium Catalyst Producers							
ALL	Large	11 *	\$ 136.66 *	23% *	37% *	5	\$ 639.77
	Small	0 *	\$ 136.66 *	23% *	93% *	0	\$ -
SECTOR 8. Paint and Coating Producers							
ALL	Large	1 *	\$ 136.66 *	23% *	37% *	80	\$ 895.67
	Small	0 *	\$ 136.66 *	23% *	93% *	126	\$ -
SECTOR 9. Printing Ink Producers							
ALL	Large	10 *	\$ 136.66 *	23% *	37% *	2	\$ 290.27
	Small	2 *	\$ 136.66 *	23% *	93% *	8	\$ 608.00
SECTOR 10. Plastic Colorant Producers and Users							
ALL	Large	342 *	\$ 136.66 *	23% *	54% *	1	\$ 5,802.35
	Small	35 *	\$ 136.66 *	23% *	95% *	1	\$ 1,031.36

Table 17

		EMPAL	RESPEXAMCOST	%EMPMEDEXAM	1-%FITBASE	#PLANTS	Item 13 Cost
<b>SECTOR 11. Plating Mixture Producers</b>							
ALL	Large	3 *	\$ 136.66 *	23% *	37% *	6	\$ 185.20
	Small	1 *	\$ 136.66 *	23% *	93% *	4	\$ 103.44
<b>SECTOR 13. Chromium Metal Producers</b>							
ALL	Large	7 *	\$ 136.66 *	23% *	56% *	1	\$ 116.14
	Small	0 *	\$ 136.66 *	23% *	95% *	0	\$ -
<b>SECTOR 14. Iron and Steel Mills</b>							
Alloy and Stainless Steel	Large	27 *	\$ 136.66 *	23% *	56% *	34	\$ 15,975.37
	Small	1 *	\$ 136.66 *	23% *	95% *	11	\$ 413.94
Carbon Steel	Large	1 *	\$ 136.66 *	23% *	56% *	102	\$ 1,141.10
	Small	1 *	\$ 136.66 *	23% *	95% *	32	\$ 1,217.48
<b>SECTOR 14B. Forging Industry</b>							
Reshaping Industry	Large	3 *	\$ 136.66 *	23% *	56% *	33	\$ 1,492.76
	Small	1 *	\$ 136.66 *	23% *	95% *	31	\$ 596.56
<b>SECTOR 15. Iron and Steel Foundries</b>							
ALL	Large	17 *	\$ 136.66 *	23% *	56% *	163	\$ 49,427.28
	Small	4 *	\$ 136.66 *	23% *	95% *	118	\$ 14,519.45
<b>SECTOR 17. Chromium Dye Producers</b>							
ALL	Large	29 *	\$ 136.66 *	23% *	37% *	3	\$ 903.87
	Small	6 *	\$ 136.66 *	23% *	93% *	1	\$ 165.66
<b>SECTOR 18. Chromium Sulfate Producers</b>							
ALL	Large	0 *	\$ 136.66 *	23% *	37% *	0	\$ -
	Small	1 *	\$ 136.66 *	23% *	93% *	5	\$ 134.00
<b>SECTOR 19. Chemical Distributors</b>							
ALL	Large	0 *	\$ 136.66 *	23% *	92% *	216	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	1627	\$ -
<b>SECTOR 20. Textile Dyeing</b>							
ALL	Large	0 *	\$ 136.66 *	23% *	89% *	343	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	697	\$ -
<b>SECTOR 21. Colored Glass Producers</b>							
ALL	Large	1 *	\$ 136.66 *	23% *	76% *	6	\$ 157.48
	Small	0 *	\$ 136.66 *	23% *	97% *	20	\$ -
Fiber, Flat and Container	Large	7 *	\$ 136.66 *	23% *	76% *	90	\$ 15,800.15
	small	1 *	\$ 136.66 *	23% *	97% *	5	\$ 167.49

Table 17

		EMPAL	RESPEXAMCOST	%EMPMEDEXAM	1-%FITBASE	#PLANTS	Item 13 Cost
SECTOR 22. Printing							\$ -
ALL	Large	0 *	\$ 136.66 *	23% *	98% *	81	\$ -
	Small	0 *	\$ 136.66 *	23% *	99.70% *	325	\$ -
SECTOR 24. Chromium Catalyst Users							\$ -
Chromium Catalyst Users	Large	1 *	\$ 136.66 *	23% *	67% *	1	\$ 23.11
	Small	0 *	\$ 136.66 *	23% *	0% *	0	\$ -
Chromium Catalyst Companies	Large	119 *	\$ 136.66 *	23% *	0% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	0% *	1	\$ -
SECTOR 25. Refractory Brick Producers							\$ -
ALL	Large	0 *	\$ 136.66 *	23% *	76% *	5	\$ -
	Small	0 *	\$ 136.66 *	23% *	97% *	0	\$ -
SECTOR 26. Woodworking							\$ -
GENERAL INDUSTRY	Large	0 *	\$ 136.66 *	23% *	94% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	1	\$ -
MARITIME	Large	0 *	\$ 136.66 *	23% *	55% *	36	\$ -
	Small	0 *	\$ 136.66 *	23% *	95% *	32	\$ -
CONSTRUCTION	Large	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	1	\$ -
Government	State	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
	Local	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
SECTOR 27. Solid Waste Incineration							\$ -
ALL	Large	0 *	\$ 136.66 *	23% *	59% *	40	\$ -
	Small	0 *	\$ 136.66 *	23% *	96% *	48	\$ -
Government	State	0 *	\$ 136.66 *	23% *	59% *	0	\$ -
	Local	0 *	\$ 136.66 *	23% *	96% *	24	\$ -
SECTOR 30. Superalloy Producers and Users							\$ -
ALL	Large	0 *	\$ 136.66 *	23% *	56% *	19	\$ -
	Small	0 *	\$ 136.66 *	23% *	95% *	0	\$ -
SECTOR 31. Construction							\$ -
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	0 *	\$ 136.66 *	23% *	88% *	51	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	233	\$ -
	State	0 *	\$ 136.66 *	23% *	88% *	15	\$ -
	Local	0 *	\$ 136.66 *	23% *	88% *	88	\$ -

Table 17

		EMPAL	RESPEXAMCOST	%EMPIEDEEXAM	1-%FITBASE	#PLANTS	Item 13 Cost
HAZARDOUS WASTE-SITE WORK	Large	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	1	\$ -
	State	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
	Local	0 *	\$ 136.66 *	23% *	88% *	1	\$ -
REFRACTORY BRICK RESTORATION	Large	0 *	\$ 136.66 *	23% *	88% *	44	\$ -
	Small	0 *	\$ 136.66 *	23% *	99% *	175	\$ -
<b>Total</b>			<b>16,517</b>			<b>7,770</b>	<b>\$ 594,000</b>

Table 18

**Protective Work Clothing and Equipment, Removal and Storage (§§1910.1026(h)(2)(iv), 1915.1026(g)(2)(iv), and 1926.1126(g)(2)(iv)); Contract Cost to Obtain Cr(VI) Hazard-Warning Labels for Bags or Containers Used to Store Cr(VI)-Contaminated Protective Clothing or Equipment**

*This table calculates the contract cost for purchasing appropriate labels for glove disposal containers. OSHA estimates that 5% of the containers will need new or replacement labels. The number of replacement gloves used throughout the year is divided by 1,602. The factor of 1,602 is the estimated number of gloves that can fit into a thirty-gallon garbage bag.*

Cost =  $GLOVERPL / 1,602 * 5\% * \$0.32 * \#PLANTS$

GLOVEREPL = The number of glove replacements per year

NOGLOVESCONT = The number of gloves that can fit into a thirty-gallon container.

5% of containers need new or replacement labels.

COST = The cost of a label

#PLANTS = Number of model plants

COST = The cost of a label

Variables		GLOVEREPL		NOGLOVESCONT	5% of containers need labels	COST	#PLANTS		Item 13 Cost
<b>Sector 1. Electroplating</b>									
ALL	Large	54,888,821	/	1,602	1713.13	\$0.41	1	=	\$703
	Small	11,970,179	/	1,602	373.60	\$0.41	1	=	\$153
<b>Sector 2. Welding</b>									
GENERAL INDUSTRY	Large	0	/	1,602	0.00	\$0.41	7,857	=	\$0
	Small	0	/	1,602	0.00	\$0.41	8,804	=	\$0
MARITIME	Large	0	/	1,602	0.00	\$0.41	189	=	\$0
	Small	0	/	1,602	0.00	\$0.41	107	=	\$0
CONSTRUCTION	Large	0	/	1,602	0.00	\$0.41	268	=	\$0
	Small	0	/	1,602	0.00	\$0.41	2,145	=	\$0
GOVERNMENT	State	0	/	1,602	0.00	\$0.41	25	=	\$0
	Local	0	/	1,602	0.00	\$0.41	787	=	\$0
<b>Sector 2A. Mild Steel Welding</b>									
GENERAL INDUSTRY	Large	0	/	1,602	0.00	\$0.41	10,535	=	\$0
	Small	0	/	1,602	0.00	\$0.41	10,724	=	\$0
MARITIME	Large	0	/	1,602	0.00	\$0.41	409	=	\$0
	Small	0	/	1,602	0.00	\$0.41	232	=	\$0



Table 18

Variables		GLOVEREPL		NOGLOVESCONT	5% of containers need labels	COST	#PLANTS		Item 13 Cost
CONSTRUCTION	Large	0 /	1,602	0.00	\$0.41	402 =	\$0		
	Small	0 /	1,602	0.00	\$0.41	3,037 =	\$0		
SECTOR 3. Painting									
GENERAL INDUSTRY									
AEROSPACE	Large	125,000 /	1,602	3.90	\$0.41	49 =	\$78		
	Small	1,000 /	1,602	0.03	\$0.41	62 =	\$1		

Table 18

Variables		GLOVEREPL		NOGLOVESCONT	5% of containers need labels	COST	#PLANTS		Item 13 Cost
AUTO BODY	Large	61,000	/	1,602	1.90	\$0.41	326 =		\$255
	Small	5,000	/	1,602	0.16	\$0.41	1,436 =		\$92
COIL COATING	Large	14,000	/	1,602	0.44	\$0.41	100 =		\$18
	Small	3,000	/	1,602	0.09	\$0.41	18 =		\$1
MARITIME	Large	5,000	/	1,602	0.16	\$0.41	276 =		\$18
	Small	2,000	/	1,602	0.06	\$0.41	476 =		\$12
CONSTRUCTION	Large	14,000	/	1,602	0.44	\$0.41	671 =		\$120
	Small	3,000	/	1,602	0.09	\$0.41	3,566 =		\$137
GOVERNMENT	State	5,000	/	1,602	0.16	\$0.41	12 =		\$1
	Local	59,000	/	1,602	1.84	\$0.41	647 =		\$489
SECTOR 4. Producers of Chromates									
ALL	Large	75,000	/	1,602	2.34	\$0.41	2 =		\$2
	Small	0	/	1,602	0.00	\$0.41	0 =		\$0
SECTOR 5. Chromate Pigment Procedures									
ALL	Large	24,000	/	1,602	0.75	\$0.41	2 =		\$1
	Small	3,000	/	1,602	0.09	\$0.41	1 =		\$0
SECTOR 6. CCA Producers									
ALL	Large	8,760	/	1,602	0.27	\$0.41	2 =		\$0
	Small	0	/	1,602	0.00	\$0.41	0 =		\$0
SECTOR 7. Chromium Catalyst Producers									
ALL	Large	57,000	/	1,602	1.78	\$0.41	5 =		\$3
	Small	0	/	1,602	0.00	\$0.41	0 =		\$0
SECTOR 8. Paint and Coating Producers									
ALL	Large	12,000	/	1,602	0.37	\$0.41	80 =		\$12
	Small	6,000	/	1,602	0.19	\$0.41	126 =		\$10
SECTOR 9. Printing Ink Producers									
ALL	Large	24,000	/	1,602	0.75	\$0.41	2 =		\$1
	Small	480	/	1,602	0.01	\$0.41	8 =		\$0
SECTOR 10. Plastic Colorant Producers and Users									
	Large	583	/	1,602	0.02	\$0.41	81 =		\$1

Table 18

Variables		GLOVEREPL		NOGLOVESCONT	5% of containers need labels	COST	#PLANTS		Item 13 Cost
ALL	Small	120 /		1,602	0.00	\$0.41	40 =		\$0
SECTOR 11. Plating Mixture Producers									
ALL	Large	14,400 /		1,602	0.45	\$0.41	6 =		\$1
	Small	2,880 /		1,602	0.09	\$0.41	4 =		\$0
SECTOR 13. Chromium Metal Producers									
ALL	Large	0 /		1,602	0.00	\$0.41	1 =		\$0
	Small	0 /		1,602	0.00	\$0.41	0 =		\$0
SECTOR 14. Iron and Steel Mills									
GENERAL INDUSTRY	Large	0 /		1,602	0.00	\$0.41	34 =		\$0
	Small	0 /		1,602	0.00	\$0.41	11 =		\$0

Table 18

Variables		GLOVEREPL	NOGLOVESCONT	5% of containers need labels	COST	#PLANTS	Item 13 Cost
CARBON STEEL	Large	0 /	1,602	0.00	\$0.41	0 =	\$0
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
SECTOR 14b. Alloy Stainless Steel Forging Industry							
RESHAPING INDUSTRY	Large	0 /	1,602	0.00	\$0.41	33 =	\$0
	Small	0 /	1,602	0.00	\$0.41	31 =	\$0
SECTOR 15. Iron and Steel Foundries							
ALL	Large	0 /	1,602	0.00	\$0.41	163 =	\$0
	Small	0 /	1,602	0.00	\$0.41	118 =	\$0
SECTOR 17. Chromium Dye Producers							
ALL	Large	3,840 /	1,602	0.12	\$0.41	3 =	\$0
	Small	840 /	1,602	0.03	\$0.41	1 =	\$0
SECTOR 18. Chromium Sulfate Producers							
ALL	Large	0 /	1,602	0.00	\$0.41	0 =	\$0
	Small	2,000 /	1,602	0.06	\$0.41	5 =	\$0
SECTOR 19. Chemical Distributors							
ALL	Large	0 /	1,602	0.00	\$0.41	216 =	\$0
	Small	0 /	1,602	0.00	\$0.41	1,627 =	\$0
SECTOR 20. Textile Dyeing							
ALL	Large	7,580 /	1,602	0.24	\$0.41	343 =	\$33
	Small	240 /	1,602	0.01	\$0.41	697 =	\$2
SECTOR 21. Colored Glass Producers							
ALL	Large	1,000 /	1,602	0.03	\$0.41	6 =	\$0
	Small	0 /	1,602	0.00	\$0.41	20 =	\$0
FIBER, FLAT, AND CONTAINER GLASS	Large	0 /	1,602	0.00	\$0.41	0 =	\$0
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
SECTOR 22. Printing							
ALL	Large	5,460 /	1,602	0.17	\$0.41	81 =	\$6
	Small	360 /	1,602	0.01	\$0.41	325 =	\$2
SECTOR 24. Chromium Catalyst Users							
Chromium Catalyst Users	Large	2,000 /	1,602	0.06	\$0.41	179 =	\$5

Table 18

Variables		GLOVEREPL	NOGLOVESCONT	5% of containers need labels	COST	#PLANTS	Item 13 Cost
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
Catalyst Service Companies	Large	30,000 /	1,602	0.94	\$0.41	23 =	\$9
	Small	15,000 /	1,602	0.47	\$0.41	4 =	\$1
SECTOR 25. Refractory Brick Producers							
ALL	Large	11,000 /	1,602	0.34	\$0.41	5 =	\$1
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
SECTOR 26. Woodworking							
GENERAL INDUSTRY	Large	0 /	1,602	0.00	\$0.41	148 =	\$0
	Small	0 /	1,602	0.00	\$0.41	79 =	\$0
MARITIME	Large	0 /	1,602	0.00	\$0.41	36 =	\$0
	Small	0 /	1,602	0.00	\$0.41	32 =	\$0
CONSTRUCTION	Large	2,000 /	1,602	0.06	\$0.41	1,162 =	\$30
	Small	1,000 /	1,602	0.03	\$0.41	4,650 =	\$60
GOVERNMENT	State	1,000 /	1,602	0.03	\$0.41	12 =	\$0
	Local	1,000 /	1,602	0.03	\$0.41	42 =	\$1
SECTOR 27. Solid Waste Incineration							
ALL	Large	20,000 /	1,602	0.62	\$0.41	40 =	\$10
	Small	3,000 /	1,602	0.09	\$0.41	48 =	\$2
GOVERNMENT	State	20,000 /	1,602	0.62	\$0.41	0 =	\$0
	Local	3,000 /	1,602	0.09	\$0.41	24 =	\$1
SECTOR 30. Superalloy Producers and Users							
ALL	Large	0 /	1,602	0.00	\$0.41	19 =	\$0
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
SECTOR 31. Construction							
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	0 /	1,602	0.00	\$0.41	0 =	\$0
	Small	0 /	1,602	0.00	\$0.41	0 =	\$0
	State	0 /	1,602	0.00	\$0.41	0 =	\$0
	Local	0 /	1,602	0.00	\$0.41	0 =	\$0
	Large	14,000 /	1,602	0.44	\$0.41	40 =	\$7

Table 18

Variables		GLOVEREPL		NOGLOVESCONT	5% of containers need labels	COST	#PLANTS		Item 13 Cost
HAZARDOUS WASTE-SITE WORK	Small	3,000	/	1,602	0.09	\$0.41	170		\$7
	State	2,000	/	1,602	0.06	\$0.41	1		\$0
	Local	3,000	/	1,602	0.09	\$0.41	239 =		\$9
REFRACTORY BRICK RESTORATION	Large	14,000	/	1,602	0.44	\$0.41	44 =		\$8
	Small	1,000	/	1,602	0.03	\$0.41	175 =		\$2
						<b>Total</b>	<b>64,410</b>		<b>\$2,302</b>

Table 18a

**Protective Work Clothing and Equipment, Removal and Storage (§§1910.1026(h)(2)(iv), 1915.1026(g)(2)(iv), and 1926.1126(g)(2)(iv)); Clerical Time and Cost to Affix Cr(VI) Hazard-Warning Labels for Bags or Containers Used to Store Cr(VI)-Contaminated Protective Clothing or Equipment**

OSHA assumes that it will take 1 minute of clerical employee time to obtain and affix Cr(VI) hazard-warning labels to glove disposal containers. OSHA assumes the number of labels will be the same as the number of containers needing labels, as calculated in Table 18.

5% of containers need new or replacement labels = see Table 18

\* HCLWAGE = Highest clerical wage rate (overestimation)

\* AFFIX = 1 minute for a clerical worker to obtain and affix label

#PLANTS = Number of model plants

COST = The cost to obtain and affix the label

22%

Variables	5% of containers need labels		#PLANTS	AFFIX	Burden Hours	HCLWage	Item 12 Cost	Responses
<b>Sector 1. Electroplating</b>								
ALL	1713.13	*	1	* 0.02 =	34.26	* \$34.72 =	\$1,189.71	1713.13
	373.60	*	1	* 0.02 =	7.47	* \$34.72 =	\$259.45	373.60
<b>Sector 2. Welding</b>								
GENERAL INDUSTRY	0.00	*	7,857	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	8,804	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
MARITIME	0.00	*	189	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	107	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
CONSTRUCTION	0.00	*	268	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	2,145	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
GOVERNMENT	0.00	*	25	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	787	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
<b>Sector 2A. Mild Steel Welding</b>								
GENERAL INDUSTRY	0.00	*	10,535	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	10,724	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
MARITIME	0.00	*	409	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	232	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
CONSTRUCTION	0.00	*	402	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
	0.00	*	3,037	* 0.02 =	0.00	* \$34.72 =	\$0.00	0.00
<b>SECTOR 3. Painting</b>								
<b>GENERAL INDUSTRY</b>								
AEROSPACE	3.90	*	49	* 0.02 =	3.82	* \$34.72 =	\$132.52	190.82
	0.03	*	62	* 0.02 =	0.04	* \$34.72 =	\$1.34	1.92
	1.90	*	326	* 0.02 =	12.42	* \$34.72 =	\$431.13	620.80

Table 18a

Variables	5% of containers need labels		#PLANTS		AFFIX		Burden Hours		HCLWage		Item 12 Cost	Responses
AUTO BODY	0.16	*	1,436	*	0.02	=	4.48	*	\$34.72	=	\$155.59	224.04
COIL COATING	0.44	*	100	*	0.02	=	0.87	*	\$34.72	=	\$30.23	43.54
	0.09	*	18	*	0.02	=	0.03	*	\$34.72	=	\$1.18	1.70
MARITIME	0.16	*	276	*	0.02	=	0.86	*	\$34.72	=	\$29.86	42.99
	0.06	*	476	*	0.02	=	0.59	*	\$34.72	=	\$20.65	29.73
CONSTRUCTION	0.44	*	671	*	0.02	=	5.86	*	\$34.72	=	\$203.57	293.13
	0.09	*	3,566	*	0.02	=	6.68	*	\$34.72	=	\$231.91	333.94



Table 18a

Variables	5% of containers need labels		#PLANTS	AFFIX	Burden Hours	HCLWage	Item 12 Cost	Responses				
GOVERNMENT	0.16	*	12	*	0.02	=	0.04	*	\$34.72	=	\$1.27	1.82
	1.84	*	647	*	0.02	=	23.81	*	\$34.72	=	\$826.93	1190.75
SECTOR 4. Producers of Chromates												
ALL	2.34	*	2	*	0.02	=	0.09	*	\$34.72	=	\$3.11	4.48
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 5. Chromate Pigment Procedures												
ALL	0.75	*	2	*	0.02	=	0.03	*	\$34.72	=	\$0.94	1.35
	0.09	*	1	*	0.02	=	0.00	*	\$34.72	=	\$0.06	0.08
SECTOR 6. CCA Producers												
ALL	0.27	*	2	*	0.02	=	0.01	*	\$34.72	=	\$0.45	0.65
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 7. Chromium Catalyst Producers												
ALL	1.78	*	5	*	0.02	=	0.17	*	\$34.72	=	\$5.91	8.52
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 8. Paint and Coating Producers												
ALL	0.37	*	80	*	0.02	=	0.60	*	\$34.72	=	\$20.92	30.12
	0.19	*	126	*	0.02	=	0.47	*	\$34.72	=	\$16.44	23.67
SECTOR 9. Printing Ink Producers												
ALL	0.75	*	2	*	0.02	=	0.04	*	\$34.72	=	\$1.30	1.87
	0.01	*	8	*	0.02	=	0.00	*	\$34.72	=	\$0.09	0.12
SECTOR 10. Plastic Colorant Producers and Users												
ALL	0.02	*	81	*	0.02	=	0.03	*	\$34.72	=	\$1.03	1.48
	0.00	*	40	*	0.02	=	0.00	*	\$34.72	=	\$0.10	0.15
SECTOR 11. Plating Mixture Producers												
ALL	0.45	*	6	*	0.02	=	0.05	*	\$34.72	=	\$1.76	2.54
	0.09	*	4	*	0.02	=	0.01	*	\$34.72	=	\$0.23	0.34
SECTOR 13. Chromium Metal Producers												
ALL	0.00	*	1	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 14. Iron and Steel Mills												
GENERAL INDUSTRY	0.00	*	34	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	11	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
CARBON STEEL	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 14b. Alloy Stainless Steel Forging Industry												
	0.00	*	33	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00

Table 18a

Variables	5% of containers need labels		#PLANTS		AFFIX		Burden Hours		HCLWage		Item 12 Cost	Responses
RESHAPING INDUSTRY	0.00	*	31	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 15. Iron and Steel Foundries												
ALL	0.00	*	163	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	118	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 17. Chromium Dye Producers												
ALL	0.12	*	3	*	0.02	=	0.01	*	\$34.72	=	\$0.22	0.32
	0.03	*	1	*	0.02	=	0.00	*	\$34.72	=	\$0.02	0.02

Table 18a

Variables	5% of containers need labels		#PLANTS	AFFIX	Burden Hours	HCLWage	Item 12 Cost	Responses				
SECTOR 18. Chromium Sulfate Producers												
ALL	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.06	*	5	*	0.02	=	0.01	*	\$34.72	=	\$0.21	0.30
SECTOR 19. Chemical Distributors												
ALL	0.00	*	216	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	1,627	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 20. Textile Dyeing												
ALL	0.24	*	343	*	0.02	=	1.63	*	\$34.72	=	\$56.44	81.26
	0.01	*	697	*	0.02	=	0.10	*	\$34.72	=	\$3.63	5.22
SECTOR 21. Colored Glass Producers												
ALL	0.03	*	6	*	0.02	=	0.00	*	\$34.72	=	\$0.14	0.20
	0.00	*	20	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
FIBER, FLAT, AND CONTAINER GLASS	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 22. Printing												
ALL	0.17	*	81	*	0.02	=	0.28	*	\$34.72	=	\$9.63	13.87
	0.01	*	325	*	0.02	=	0.07	*	\$34.72	=	\$2.54	3.66
SECTOR 24. Chromium Catalyst Users												
Chromium Catalyst Users	0.06	*	179	*	0.02	=	0.22	*	\$34.72	=	\$7.75	11.17
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
Catalyst Service Companies	0.94	*	23	*	0.02	=	0.43	*	\$34.72	=	\$14.98	21.58
	0.47	*	4	*	0.02	=	0.04	*	\$34.72	=	\$1.43	2.06
SECTOR 25. Refractory Brick Producers												
ALL	0.34	*	5	*	0.02	=	0.04	*	\$34.72	=	\$1.29	1.85
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
SECTOR 26. Woodworking												
GENERAL INDUSTRY	0.00	*	148	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	79	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
MARITIME	0.00	*	36	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	32	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
CONSTRUCTION	0.06	*	1,162	*	0.02	=	1.45	*	\$34.72	=	\$50.36	72.52
	0.03	*	4,650	*	0.02	=	2.90	*	\$34.72	=	\$100.79	145.14
GOVERNMENT	0.03	*	12	*	0.02	=	0.01	*	\$34.72	=	\$0.25	0.36
	0.03	*	42	*	0.02	=	0.03	*	\$34.72	=	\$0.92	1.32
SECTOR 27. Solid Waste Incineration												

Table 18a

Variables	5% of containers need labels		#PLANTS		AFFIX		Burden Hours		HCLWage		Item 12 Cost	Responses
ALL	0.62	*	40	*	0.02	=	0.50	*	\$34.72	=	\$17.27	24.86
	0.09	*	48	*	0.02	=	0.09	*	\$34.72	=	\$3.11	4.48
GOVERNMENT	0.62	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.09	*	24	*	0.02	=	0.04	*	\$34.72	=	\$1.55	2.24
SECTOR 30. Superalloy Producers and Users												
ALL	0.00	*	19	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00

Table 18a

Variables	5% of containers need labels		#PLANTS	AFFIX	Burden Hours	HCLWage	Item 12 Cost	Responses				
SECTOR 31. Construction												
INDUSTRIAL REHABILITATION AND MAINTENANCE	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
	0.00	*	0	*	0.02	=	0.00	*	\$34.72	=	\$0.00	0.00
HAZARDOUS WASTE-SITE WORK	0.44	*	40	*	0.02	=	0.35	*	\$34.72	=	\$12.20	17.57
	0.09	*	170	*	0.02	=	0.32	*	\$34.72	=	\$11.05	15.92
	0.06	*	1	*	0.02	=	0.00	*	\$34.72	=	\$0.04	0.05
	0.09	*	239	*	0.02	=	0.45	*	\$34.72	=	\$15.52	22.34
REFRACTORY BRICK RESTORATION	0.44	*	44	*	0.02	=	0.39	*	\$34.72	=	\$13.45	19.36
	0.03	*	175	*	0.02	=	0.11	*	\$34.72	=	\$3.80	5.47
<b>Total</b>			<b>64,410</b>				<b>112.21</b>				<b>\$3,896.25</b>	<b>5610.44</b>

Table 19

**Protective Work Clothing and Equipment, Cleaning and Replacement (§§ 1910.1026(h)(3)(iii), 1915.1026(g)(3)(iii), and 1926.1126(g)(3)(iii))**

**Employer Time and Cost to Inform Laundry Contractor About Cr(VI)-Contaminated Protective Clothing or Equipment**

The laundering company will be informed of the presence of hexavalent chromium in the laundry at the commencement of the laundering agreement. Laundering facilities typically collect dirty uniforms for cleaning. It is estimated that the laundering facility will assume the cost burden for labeling the contaminated laundry and include the cost in their laundering fee. For purposes of calculating burden hours, OSHA assumes that it will take a maximum of five minutes to notify the laundry, and that 25% of the plants will need to annually notify or reinform the laundry.

Hours = #PLANTS \* NOTTIME

Cost = Hours \* SUPEWAGE

#PLANTS = Number of plants represented by the model plant \* 25% need to notify or reinform.

NOTIME = Time to notify the laundry.

SUPEWAGE = Supervisory Wage Rate

		#PLANTS	# of PLANTS *25%	NOTIME	BURDEN HOURS	SUPWAGE	Item 12 Cost	RESPONSES
20.69%								
<b>Sector 1. Electroplating</b>								
ALL	Large	1	0.25 *	0.08 =	0.02 * \$	36.22 = \$	0.72	1
	Small	1	0.25 *	0.08 =	0.02 * \$	36.22 = \$	0.72	1
<b>Sector 2. Welding</b>								
GENERAL INDUSTRY	Large	7,857	1964.3369 *	0.08 =	157.15 * \$	35.65 = \$	5,602.74	7,857
	Small	8,804	2201.0622 *	0.08 =	176.08 * \$	35.65 = \$	6,277.94	8,804
MARITIME	Large	189	47.345061 *	0.08 =	3.79 * \$	35.65 = \$	135.04	189
	Small	107	26.812764 *	0.08 =	2.15 * \$	35.65 = \$	76.48	107
CONSTRUCTION	Large	268	66.911132 *	0.08 =	5.35 * \$	35.65 = \$	190.85	268
	Small	2,145	536.25528 *	0.08 =	42.90 * \$	35.65 = \$	1,529.52	2,145
GOVERNMENT	State	25	6.2804672 *	0.08 =	0.50 * \$	35.65 = \$	17.91	25
	Local	787	196.86849 *	0.08 =	15.75 * \$	35.65 = \$	561.51	787
<b>Sector 2A. Mild Steel Welding</b>								
GENERAL INDUSTRY	Large	10,535	2633.6898 *	0.08 =	210.70 * \$	35.65 = \$	7,511.89	10,535
	Small	10,724	2681.0348 *	0.08 =	214.48 * \$	35.65 = \$	7,646.93	10,724
MARITIME	Large	409	102.17837 *	0.08 =	8.17 * \$	35.65 = \$	291.44	409
	Small	232	57.973544 *	0.08 =	4.64 * \$	35.65 = \$	165.35	232
CONSTRUCTION	Large	402	100.48748 *	0.08 =	8.04 * \$	35.65 = \$	286.61	402
	Small	3,037	759.21187 *	0.08 =	60.74 * \$	35.65 = \$	2,165.45	3,037
<b>SECTOR 3. Painting</b>								
<b>GENERAL INDUSTRY</b>								
AEROSPACE	Large	49	12.227813 *	0.08 =	0.98 * \$	44.87 = \$	43.90	49
	Small	62	15.397987 *	0.08 =	1.23 * \$	44.87 = \$	55.28	62
AUTO BODY	Large	326	81.518752 *	0.08 =	6.52 * \$	44.87 = \$	292.65	326
	Small	1,436	358.90895 *	0.08 =	28.71 * \$	44.87 = \$	1,288.45	1,436
COIL COATING	Large	100	24.908508 *	0.08 =	1.99 * \$	44.87 = \$	89.42	100
	Small	18	4.5288196 *	0.08 =	0.36 * \$	44.87 = \$	16.26	18
MARITIME	Large	276	68.876701 *	0.08 =	5.51 * \$	44.87 = \$	247.26	276
	Small	476	119.08588 *	0.08 =	9.53 * \$	44.87 = \$	427.51	476

Table 19

CONSTRUCTION	Large	671	167.71502 *	0.08	=	13.42 * \$	44.87 = \$	602.08	671
	Small	3,566	891.62133 *	0.08	=	71.33 * \$	44.87 = \$	3,200.84	3,566
GOVERNMENT	State	12	2.9208754 *	0.08	=	0.23 * \$	44.87 = \$	10.49	12
	Local	647	161.65922 *	0.08	=	12.93 * \$	44.87 = \$	580.34	647
SECTOR 4. Producers of Chromates									
ALL	Large	2	0.4787616 *	0.08	=	0.04 * \$	52.66 = \$	2.02	2
	Small	0	0 *	0.08	=	0.00 * \$	52.66 = \$	-	0
SECTOR 5. Chromate Pigment Procedures									
ALL	Large	2	0.4498851 *	0.08	=	0.04 * \$	51.32 = \$	1.85	2
	Small	1	0.2249425 *	0.08	=	0.02 * \$	51.32 = \$	0.92	1
SECTOR 6. CCA Producers									
ALL	Large	2	0.5909091 *	0.08	=	0.05 * \$	43.46 = \$	2.05	2
	Small	0	0 *	0.08	=	0.00 * \$	43.46 = \$	-	0
SECTOR 7. Chromium Catalyst Producers									
ALL	Large	5	1.196904 *	0.08	=	0.10 * \$	52.66 = \$	5.04	5
	Small	0	0 *	0.08	=	0.00 * \$	52.66 = \$	-	0
SECTOR 8. Paint and Coating Producers									
ALL	Large	80	20.107988 *	0.08	=	1.61 * \$	39.21 = \$	63.08	80
	Small	126	31.598266 *	0.08	=	2.53 * \$	39.21 = \$	99.13	126
SECTOR 9. Printing Ink Producers									
ALL	Large	2	0.6244898 *	0.08	=	0.05 * \$	39.29 = \$	1.96	2
	Small	8	2.0816327 *	0.08	=	0.17 * \$	39.29 = \$	6.54	8
SECTOR 10. Plastic Colorant Producers and Users									
ALL	Large	81	20.36956 *	0.08	=	1.63 * \$	43.52 = \$	70.92	81
	Small	40	9.963372 *	0.08	=	0.80 * \$	43.52 = \$	34.69	40
SECTOR 11. Plating Mixture Producers									
ALL	Large	6	1.4108755 *	0.08	=	0.11 * \$	39.06 = \$	4.41	6
	Small	4	0.9405837 *	0.08	=	0.08 * \$	39.06 = \$	2.94	4
SECTOR 13. Chromium Metal Producers									
ALL	Large	1	0.2270408 *	0.08	=	0.02 * \$	52.83 = \$	0.96	1
	Small	0	0 *	0.08	=	0.00 * \$	52.83 = \$	-	0
SECTOR 14. Iron and Steel Mills									
GENERAL INDUSTRY	Large	34	8.4605844 *	0.08	=	0.68 * \$	52.83 = \$	35.76	34
	Small	11	2.7137723 *	0.08	=	0.22 * \$	52.83 = \$	11.47	11
CARBON STEEL	Large	0	0 *	0.08	=	0.00 * \$	52.83 = \$	-	0
	Small	0	0 *	0.08	=	0.00 * \$	52.83 = \$	-	0
SECTOR 14b. Alloy Stainless Steel Forging Industry									
RESHAPING INDUSTRY	Large	33	8.3009507 *	0.08	=	0.66 * \$	52.83 = \$	35.08	33
	Small	31	7.8220497 *	0.08	=	0.63 * \$	52.83 = \$	33.06	31
SECTOR 15. Iron and Steel Foundries									
ALL	Large	163	40.678774 *	0.08	=	3.25 * \$	38.53 = \$	125.37	163
	Small	118	29.584563 *	0.08	=	2.37 * \$	38.53 = \$	91.18	118
SECTOR 17. Chromium Dye Producers									
ALL	Large	3	0.6748276 *	0.08	=	0.05 * \$	51.32 = \$	2.77	3
	Small	1	0.2249425 *	0.08	=	0.02 * \$	51.32 = \$	0.92	1
SECTOR 18. Chromium Sulfate Producers									
ALL	Large	0	0 *	0.08	=	0.00 * \$	56.48 = \$	-	0

Table 19

	Small	5	1.196904 *	0.08	=	0.10 * \$	56.48 = \$	5.41	5
SECTOR 19. Chemical Distributors									
ALL	Large	216	53.913101 *	0.08	=	4.31 * \$	40.75 = \$	175.74	216
	Small	1,627	406.79885 *	0.08	=	32.54 * \$	40.75 = \$	1,326.04	1,627
SECTOR 20. Textile Dyeing									
ALL	Large	343	85.874812 *	0.08	=	6.87 * \$	27.18 = \$	186.73	343
	Small	697	174.27535 *	0.08	=	13.94 * \$	27.18 = \$	378.95	697
SECTOR 21. Colored Glass Producers									
ALL	Large	6	1.5722892 *	0.08	=	0.13 * \$	39.30 = \$	4.94	6
	Small	20	4.9789157 *	0.08	=	0.40 * \$	39.30 = \$	15.65	20
FIBER, FLAT, AND CONTAINER GLASS	Large	0	0 *	0.08	=	0.00 * \$	39.30 = \$	-	0
	Small	0	0 *	0.08	=	0.00 * \$	39.30 = \$	-	0
SECTOR 22. Printing									
ALL	Large	81	20.340732 *	0.08	=	1.63 * \$	28.36 = \$	46.15	81
	Small	325	81.362927 *	0.08	=	6.51 * \$	28.36 = \$	184.62	325
SECTOR 24. Chromium Catalyst Users									
Chromium Catalyst Users	Large	179	44.718064 *	0.08	=	3.58 * \$	44.23 = \$	158.25	179
	Small	0	0 *	0.08	=	0.00 * \$	44.23 = \$	-	0
Catalyst Service Companies	Large	23	5.7612229 *	0.08	=	0.46 * \$	44.23 = \$	20.39	23
	Small	4	1.0973758 *	0.08	=	0.09 * \$	44.23 = \$	3.88	4
SECTOR 25. Refractory Brick Producers									
ALL	Large	5	1.3486088 *	0.08	=	0.11 * \$	34.92 = \$	3.77	5
	Small	0	0 *	0.08	=	0.00 * \$	34.92 = \$	-	0
SECTOR 26. Woodworking									
GENERAL INDUSTRY	Large	148	36.996376 *	0.08	=	2.96 * \$	43.69 = \$	129.31	148
	Small	79	19.784159 *	0.08	=	1.58 * \$	43.69 = \$	69.15	79
MARITIME	Large	36	9.0119048 *	0.08	=	0.72 * \$	43.69 = \$	31.50	36
	Small	32	7.939059 *	0.08	=	0.64 * \$	43.69 = \$	27.75	32
CONSTRUCTION	Large	1,162	290.44838 *	0.08	=	23.24 * \$	43.69 = \$	1,015.20	1,162
	Small	4,650	1162.5738 *	0.08	=	93.01 * \$	43.69 = \$	4,063.53	4,650
GOVERNMENT	State	12	2.9208754 *	0.08	=	0.23 * \$	43.69 = \$	10.21	12
	Local	42	10.560088 *	0.08	=	0.84 * \$	43.69 = \$	36.91	42
SECTOR 27. Solid Waste Incineration									
ALL	Large	40	9.9568966 *	0.08	=	0.80 * \$	37.07 = \$	29.52	40
	Small	48	11.948276 *	0.08	=	0.96 * \$	37.07 = \$	35.43	48
GOVERNMENT	State	0	0 *	0.08	=	0.00 * \$	37.07 = \$	-	0
	Local	24	5.9741379 *	0.08	=	0.48 * \$	37.07 = \$	17.71	24
SECTOR 30. Superalloy Producers and Users									
ALL	Large	19	4.7510774 *	0.08	=	0.38 * \$	38.01 = \$	14.45	19
	Small	0	0 *	0.08	=	0.00 * \$	38.01 = \$	-	0
SECTOR 31. Construction									
INDUSTRIAL REHABILITATION AND MAINTENANCE	Large	0	0 *	0.08	=	0.00 * \$	43.76 = \$	-	0
	Small	0	0 *	0.08	=	0.00 * \$	43.76 = \$	-	0
	State	0	0 *	0.08	=	0.00 * \$	43.76 = \$	-	0
	Local	0	0 *	0.08	=	0.00 * \$	43.76 = \$	-	0
	Large	40	10.053501 *	0.08	=	0.80 * \$	43.76 = \$	35.20	40



Table 19

HAZARDOUS WASTE-SITE WORK	Small	170	42.495748 *	0.08	=	3.40 *	\$ 43.76 = \$	148.78	170
	State	1	0.2051735 *	0.08	=	0.02 *	\$ 43.76 \$	0.72	1
	Local	239	59.652416	0.08	=	4.77 \$	43.76	\$209	239
REFRACTORY BRICK RESTORATION	Large	44	11.079369 *	0.08	=	0.89 *	\$ 43.76 = \$	38.79	44
	Small	175	43.815492 *	0.08	=	3.51 *	\$ 43.76 = \$	153.40	175
<b>Total</b>			<b>16,102</b>			<b>1,288</b>		<b>\$48,524.65</b>	<b>64,410</b>

Table 20

Initial Medical Examination (§§ 1910.1026(k)(1)(i)(A), (k)(3)(i), and (k)(3)(ii); 1915.1026(i)(1)(i)(A), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(1)(i)(A), (i)(3)(i), and (i)(3)(ii))

**Employee Time and Cost to Complete the Initial Medical Examination**

This table calculates the burden hours and costs of employee time to complete the initial medical examinations for those employees who are potentially exposed to airborne hexavalent chromium at or above the action level or who show "signs or symptoms" of exposure to hexavalent chromium before the implementation of engineering controls. For purposes of estimating the ICR costs, the Agency assumes that: all initial monitoring is completed, existing employers will experience a 5% turnover of potentially exposed employees with initial medical examinations, and new employers will have no employees requiring an initial medical examination.

Hours = POTEXEMP\*MEDEXAMTIME \* #PLANTS

Cost = POTEXEMP\* MEDEXAMTIME \*NONSUPWAGE \* #PLANTS

\* POTEXEMP \* 5% = Total number of potentially exposed employees at or above the AL and workers with "signs and symptoms" before the implementation of engineering controls.

\* MEDEXAMTIME = Employee time, in hours, for a medical examination.

\*NONSUPEWAGE - Non-supervisory wage rate

\* #PLANTS = Number of Plants

Variables		POTEXEMP	POTEXEMP * 5%	MEDEXAMTIME	#PLANTS	Hours	NONSUPEWAGE	Item 12 Cost	RESPONSES	24.17%
<b>Sector 1. Electroplating</b>										
ALL	Large	5	0.2729	* 3 *	1,848	= 1,513	* \$26.61	\$40,269	10,089	
	Small	1	0.0455	* 3 *	3,478	= 475	* \$26.61	\$12,627	3,164	
<b>Sector 2. Welding</b>										
General Industry	Large	2	0.0966	* 3 *	7,857	= 2,278	* \$26.20	\$59,672	15,184	
	Small	0	0	* 3 *	8,804	= 0	* \$26.20	\$0	0	
Maritime	Large	18	0.9179	* 3 *	189	= 522	* \$26.20	\$13,663	3,477	
	Small	1	0.0483	* 3 *	107	= 16	* \$26.20	\$407	104	
Construction	Large	49	2.4639	* 3 *	268	= 1,978	* \$26.20	\$51,831	13,189	
	Small	5	0.2416	* 3 *	2,145	= 1,554	* \$26.20	\$40,725	10,363	
GOVERNMENT	Local	2	0.0966	* 3 *	25	= 7	* \$26.20	\$191	49	
	State	0	0	* 3 *	787	= 0	* \$26.20	\$0	0	
<b>Sector 2. Mild Steel Welding</b>										
General Industry	Large	1	0.0483	* 3 *	10,535	= 1,527	* \$26.20	\$40,003	10,179	
	Small	0	0	* 3 *	10,724	= 0	* \$26.20	\$0	0	
Maritime	Large	0	0	* 3 *	409	= 0	* \$26.20	\$0	0	
	Small	1	0.0483	* 3 *	232	= 34	* \$26.20	\$881	224	
Construction	Large	18	0.9179	* 3 *	402	= 1,107	* \$26.20	\$28,999	7,379	
	Small	2	0.0966	* 3 *	3,037	= 880	* \$26.20	\$23,063	5,869	
<b>SECTOR 3. PAINTING</b>										
<b>GENERAL INDUSTRY</b>										
AEROSPACE	Large	46	2.3097	* 3 *	49	= 339	* \$33.07	\$11,206	2,259	
	Small	1	0.0453	* 3 *	62	= 8	* \$33.07	\$277	56	
Autobody	Large	12	0.5887	* 3 *	326	= 576	* \$33.07	\$19,044	3,840	
	Small	1	0.0453	* 3 *	1,436	= 195	* \$33.07	\$6,450	1,300	
Coil Coating	Large	2	0.0906	* 3 *	100	= 27	* \$33.07	\$895	180	
	Small	1	0.0453	* 3 *	18	= 2	* \$33.07	\$81	16	
Maritime	Large	3	0.1287	* 3 *	276	= 106	* \$33.07	\$3,518	709	
	Small	1	0.0429	* 3 *	476	= 61	* \$33.07	\$2,028	409	

Table 20

Variables		POTEMP	POTEMP * 5%	MEDEXAMTIME	#PLANTS	Hours	NONSUPEWAGE	Item 12 Cost	RESPONSES
Construction	Large	2	0.0953	* 3 *	671 =	192 *	\$33.07	\$6,342	1,279
	Small	1	0.0318	* 3 *	3,566 =	340 *	\$33.07	\$11,238	2,266
Government	Local	6	0.3146	* 3 *	12 =	11 *	\$33.07	\$365	74
	State	0	0.0225	* 3 *	647 =	44 *	\$33.07	\$1,441	291
SECTOR 4. Producers of Chromates									
ALL	Large	7	0.3351	* 3 *	2 =	2 *	\$38.68	\$74	13
	Small	0	0	* 3 *	0 =	0 *	\$38.68	\$0	0
SECTOR 5. Chromate Pigment Procedures									
ALL	Large	22	1.0797	* 3 *	2 =	6 *	\$37.70	\$220	39
	Small	3	0.135	* 3 *	1 =	0 *	\$37.70	\$14	2
SECTOR 6. CCA Producers									
ALL	Large	2	0.1182	* 3 *	2 =	1 *	\$31.94	\$27	6
	Small	0	0	* 3 *	0 =	0 *	\$31.94	\$0	0
SECTOR 7. Chromium Catalyst Producers									
ALL	Large	25	1.2448	* 3 *	5 =	18 *	\$38.68	\$692	119
	Small	0	0	* 3 *	0 =	0 *	\$38.68	\$0	0
SECTOR 8. Paint and Coating Producers									
ALL	Large	5	0.2394	* 3 *	80 =	58 *	\$28.81	\$1,664	385
	Small	2	0.0958	* 3 *	126 =	36 *	\$28.81	\$1,046	242
SECTOR 9. Printing Ink Producers									
ALL	Large	0	0	* 3 *	2 =	0 *	\$28.86	\$0	0
	Small	0	0	* 3 *	8 =	0 *	\$28.86	\$0	0
SECTOR 10. Plastic Colorant Producers and Users									
ALL	Large	0	0	* 3 *	81 =	0 *	\$31.99	\$0	0
	Small	0	0	* 3 *	40 =	0 *	\$31.99	\$0	0
SECTOR 11. Plating Mixture Producers									
ALL	Large	3	0.1411	* 3 *	6 =	2 *	\$28.71	\$69	16
	Small	2	0.0941	* 3 *	4 =	1 *	\$28.71	\$30	7
SECTOR 13. Chromium Metal Producers									
ALL	Large	12	0.5903	* 3 *	1 =	2 *	\$38.80	\$62	11
	Small	0	0	* 3 *	0 =	0 *	\$38.80	\$0	0
SECTOR 14. Iron and Steel Mills									
Alloy Stainless Steel	Large	36	1.8198	* 3 *	34 =	185 *	\$38.80	\$7,169	1,232
	Small	1	0.0639	* 3 *	11 =	2 *	\$38.80	\$81	14
Carbon Steel	Large	9	0.447	* 3 *	102 =	136 *	\$38.80	\$5,283	908
	Small	1	0.0639	* 3 *	32 =	6 *	\$38.80	\$237	41
14B. Alloy Stainless Steel Forging Industry									
Reshaping	Large	3	0.1277	* 3 *	33 =	13 *	\$38.80	\$494	85
	Small	0	0	* 3 *	31 =	0 *	\$38.80	\$0	0
SECTOR 15. Iron and Steel Foundries									
ALL	Large	25	1.2327	* 3 *	163 =	602 *	\$28.31	\$17,035	4,012
	Small	5	0.2465	* 3 *	118 =	88 *	\$28.31	\$2,478	583
SECTOR 17. Chromium Dye Producers									
ALL	Large	0	0	* 3 *	3 =	0 *	\$37.70	\$0	0
	Small	0	0	* 3 *	1 =	0 *	\$37.70	\$0	0

Table 20

Variables		POTEXEMP	POTEXEMP * 5%	MEDEXAMTIME	#PLANTS	Hours	NONSUPEWAGE	Item 12 Cost	RESPONSES
SECTOR 18. Chromium Sulfate Producers									
ALL	Large	0	0	* 3 *	0 =	0 *	\$41.50	\$0	0
	Small	3	0.1436	* 3 *	5 =	2 *	\$41.50	\$86	14
SECTOR 19. Chemical Distributors									
ALL	Large	0	0	* 3 *	216 =	0 *	\$29.92	\$0	0
	Small	0	0	* 3 *	1,627 =	0 *	\$29.92	\$0	0
SECTOR 20. Textile Dyeing									
ALL	Large	0	0	* 3 *	343 =	0 *	\$19.97	\$0	0
	Small	0	0	* 3 *	697 =	0 *	\$19.97	\$0	0
SECTOR 21. Colored Glass Producers									
ALL	Large	1	0.0524	* 3 *	6 =	1 *	\$28.87	\$29	7
	Small	0	0	* 3 *	20 =	0 *	\$28.87	\$0	0
Fiber, Flat and Container Glass	Large	12	0.5765	* 3 *	90 =	156 *	\$28.87	\$4,501	1,039
	Small	2	0.1048	* 3 *	5 =	2 *	\$28.87	\$48	11
SECTOR 22. Printing									
ALL	Large	0	0	* 3 *	81 =	0 *	\$20.85	\$0	0
	Small	0	0	* 3 *	325 =	0 *	\$20.85	\$0	0
SECTOR 24. Chromium Catalyst Users									
Catalyst Users	Large	1	0.0549	* 3 *	179 =	29 *	\$32.51	\$957	196
	Small	0	0	* 3 *	0 =	0 *	\$32.51	\$0	0
Chromium Catalyst Service Companies	Large	11	0.5487	* 3 *	23 =	38 *	\$32.51	\$1,233	
	Small	5	0.2743	* 3 *	4 =	4 *	\$32.51	\$117	24
SECTOR 25. Refractory Brick Producers									
ALL	Large	0	0	* 3 *	5 =	0 *	\$25.64	\$0	0
	Small	0	0	* 3 *	0 =	0 *	\$25.64	\$0	0
SECTOR 26. Woodworking									
General Industry	Large	1	0.0396	* 3 *	148 =	18 *	\$32.11	\$564	117
	Small	0	0	* 3 *	79 =	0 *	\$32.11	\$0	0
Maritime	Large	0	0	* 3 *	36 =	0 *	\$32.11	\$0	0
	Small	0	0	* 3 *	32 =	0 *	\$32.11	\$0	0
Construction	Large	2	0.117	* 3 *	1,162 =	408 *	\$32.11	\$13,098	2,719
	Small	1	0.039	* 3 *	4,650 =	544 *	\$32.11	\$17,476	3,628
Government	State	0	0.0225	* 3 *	12 =	1 *	\$32.11	\$25	5
	Local	0	0.0225	* 3 *	42 =	3 *	\$32.11	\$91	19
SECTOR 27. Solid Waste Incineration									
ALL	Large	0	0	* 3 *	40 =	0 *	\$27.23	\$0	0
	Small	0	0	* 3 *	48 =	0 *	\$27.23	\$0	0
Government	State	0	0	* 3 *	0 =	0 *	\$27.23	\$0	0
	Local	0	0	* 3 *	24 =	0 *	\$27.23	\$0	0
SECTOR 30. Superalloy Producers and Users									
ALL	Large	2	0.1056	* 3 *	19 =	6 *	\$27.93	\$168	40
	Small	0	0	* 3 *	0 =	0 *	\$27.93	\$0	0

Table 20

Variables		POTEXEMP	POTEXEMP * 5%	MEDEXAMTIME	#PLANTS	Hours	NONSUPEWAGE	Item 12 Cost	RESPONSES
SECTOR 31. Construction									
Industrial Rehabilitation & Maintenance	Large	0	0	* 3 *	51 =	0 *	\$32.13	\$0	0
	Small	0	0	* 3 *	233 =	0 *	\$32.13	\$0	0
	State Gov't	0	0	* 3 *	15 =	0 *	\$32.13	\$0	0
	Local Gov't	0	0	* 3 *	88 =	0 *	\$32.13	\$0	0
Hazardous Waste Site Work	Large	0	0	* 3 *	40 =	0 *	\$32.13	\$0	0
	Small	0	0	* 3 *	170 =	0 *	\$32.13	\$0	0
	State Gov't	0	0	* 3 *	1 =	0 *	\$32.13	\$0	0
	Local Gov't	0	0	* 3 *	239 =	0 *	\$32.13	\$0	0
Refractory Brick Restoration	Large	11	0.5279	* 3 *	44 =	70 *	\$32.13	\$2,255	468
	Small	1	0.0528	* 3 *	175 =	28 *	\$32.13	\$892	185
<b>Total</b>					<b>70,349</b>	<b>16,258</b>		<b>\$453,431</b>	<b>108,133</b>

Table 21

**Initial Medical Examination (§§ 1910.1026(k)(1)(i)(A), (k)(3)(i), and (k)(3)(ii); 1915.1026(i)(1)(i)(A), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(1)(i)(A), (i)(3)(i), and (i)(3)(ii))**

**Contract Cost for a PLHCP to Conduct the Initial Medical Examination**

*This table calculates the cost for a contractor PLHCP to conduct initial medical examinations.*

COST = POTEXEMP \* MEDEXAMCOST \* # PLANTS

\* POTEXEMP = Total number of potentially exposed employees at or above the AL and workers with "signs and symptoms" before the implementation of engineering controls \* 5%

\*MEDEXAMCOST = Cost of medical exam

\* #PLANTS = Number of Plants

Variables		POTEXEMP	POTEXEMP*5%	MEDEXAMCOST	#PLANTS	COST
<b>Sector 1. Electroplating</b>						
All	Large	5	0.2729 *	\$160 *	1,848 =	\$80,852
	Small	1	0.0455 *	\$160 *	3,478 =	\$25,353
<b>Sector 2. Welding</b>						
General Industry	Large	2	0.0966 *	\$160 *	7,857 =	\$121,683
	Small	0	0.0000 *	\$160 *	8,804 =	\$0
Maritime	Large	18	0.9179 *	\$160 *	189 =	\$27,862
	Small	1	0.0483 *	\$160 *	107 =	\$830
Construction	Large	49	2.4639 *	\$160 *	268 =	\$105,695
	Small	5	0.2416 *	\$160 *	2,145 =	\$83,047
Government	State	2	0.0966 *	\$160 *	25 =	\$389
	Local	0	0.0000 *	\$160 *	787 =	\$0
<b>Sector 2. Mild Steel Welding</b>						
General Industry	Large	1	0.0483 *	\$160 *	10,535 =	\$81,573
	Small	0	0.0000 *	\$160 *	10,724 =	\$0
Maritime	Large	0	0.0000 *	\$160 *	409 =	\$0
	Small	1	0.0483 *	\$160 *	232 =	\$1,796
Construction	Large	18	0.9179 *	\$160 *	402 =	\$59,136
	Small	2	0.0966 *	\$160 *	3,037 =	\$47,030
<b>SECTOR 3. PAINTING</b>						
<b>General Industry</b>						
AEROSPACE	Large	46	2.3097 *	\$160 *	49 =	\$18,107
	Small	1	0.0453 *	\$160 *	62 =	\$447
Auto Body	Large	2	0.0920 *	\$160 *	326 =	\$4,807
	Small	1	0.0460 *	\$160 *	1,436 =	\$10,583
Coil Coating	Large	2	0.0906 *	\$160 *	100 =	\$1,446
	Small	1	0.0453 *	\$160 *	18 =	\$131

Table 21

Variables		POTEXEMP	POTEXEMP*5%	MEDEXAMCOST	#PLANTS	COST
Maritime	Large	3	0.1287 *	\$160 *	276 =	\$5,685
	Small	1	0.0429 *	\$160 *	476 =	\$3,276
Construction	Large	2	0.0953 *	\$160 *	671 =	\$10,246
	Small	1	0.0318 *	\$160 *	3,566 =	\$18,157
Government	State	6	0.3146 *	\$160 *	12 =	\$589
	Local	0	0.0225 *	\$160 *	647 =	\$2,329
SECTOR 4. Producers of Chromates						
ALL	Large	7	0.3351 *	\$160 *	2 =	\$103
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 5. Chromate Pigment Procedures						
ALL	Large	22	1.0797 *	\$160 *	2 =	\$311
	Small	3	0.1350 *	\$160 *	1 =	\$19
SECTOR 6. CCA Producers						
ALL	Large	2	0.1182 *	\$160 *	2 =	\$45
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 7. Chromium Catalyst Producers						
ALL	Large	25	1.2448 *	\$160 *	5 =	\$955
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 8. Paint and Coating Producers						
ALL	Large	5	0.2394 *	\$160 *	80 =	\$3,086
	Small	2	0.0958 *	\$160 *	126 =	\$1,940
SECTOR 9. Printing Ink Producers						
ALL	Large	0	0.0000 *	\$160 *	2 =	\$0
	Small	0	0.0000 *	\$160 *	8 =	\$0
SECTOR 10. Plastic Colorant Producers and Users						
ALL	Large	0	0.0000 *	\$160 *	81 =	\$0
	Small	0	0.0000 *	\$160 *	40 =	\$0
SECTOR 11. Plating Mixture Producers						
ALL	Large	3	0.1411 *	\$160 *	6 =	\$128
	Small	2	0.0941 *	\$160 *	4 =	\$57
SECTOR 13. Chromium Metal Producers						
ALL	Large	12	0.5903 *	\$160 *	1 =	\$86
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 14. Iron and Steel Mills						
General Industry	Large	36	1.8198 *	\$160 *	34 =	\$9,871
	Small	1	0.0639 *	\$160 *	11 =	\$111

Table 21

Variables		POTEXEMP	POTEXEMP*5%	MEDEXAMCOST	#PLANTS	COST
Carbon Steel	Large	9	0.4470 *	\$160 *	102 =	\$7,273
	Small	1	0.0639 *	\$160 *	32 =	\$327
SECTOR 14B. Forging Industry						
Reshaping	Large	3	0.1277 *	\$160 *	33 =	\$680
	Small	0	0.0000 *	\$160 *	31 =	\$0
SECTOR 15. Iron and Steel Foundries						
ALL	Large	25	1.2327 *	\$160 *	163 =	\$32,148
	Small	5	0.2465 *	\$160 *	118 =	\$4,676
SECTOR 17. Chromium Dye Producers						
ALL	Large	0	0.0000 *	\$160 *	3 =	\$0
	Small	0	0.0000 *	\$160 *	1 =	\$0
SECTOR 18. Chromium Sulfate Producers						
ALL	Large	0	0.0000 *	\$160 *	0 =	\$0
	Small	3	0.1436 *	\$160 *	5 =	\$110
SECTOR 19. Chemical Distributors						
ALL	Large	0	0.0000 *	\$160 *	216 =	\$0
	Small	0	0.0000 *	\$160 *	1,627 =	\$0
SECTOR 20. Textile Dyeing						
ALL	Large	0	0.0000 *	\$160 *	343 =	\$0
	Small	0	0.0000 *	\$160 *	697 =	\$0
SECTOR 21. Colored Glass Producers						
General Industry	Large	1	0.0524 *	\$160 *	6 =	\$53
	Small	0	0.0000 *	\$160 *	20 =	\$0
Fiber, Flat and Container Glass	Large	12	0.5765 *	\$160 *	90 =	\$8,329
	Small	2	0.1048 *	\$160 *	5 =	\$88
SECTOR 22. Printing						
ALL	Large	0	0.0000 *	\$160 *	81 =	\$0
	Small	0	0.0000 *	\$160 *	325 =	\$0
SECTOR 24. Chromium Catalyst Users						
General Industry	Large	1	0.0549 *	\$160 *	179 =	\$1,573
	Small	0	0.0000 *	\$160 *	0 =	\$0



Table 21

Variables		POTEXEMP	POTEXEMP*5%	MEDEXAMCOST	#PLANTS	COST
Chromium Service Companies	Large	11	0.5487 *	\$160 *	23 =	\$2,027
	Small	5	0.2743 *	\$160 *	4 =	\$193
SECTOR 25. Refractory Brick Producers						
ALL	Large	0	0.0000 *	\$160 *	5 =	\$0
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 26. Woodworking						
General Industry	Large	1	0.0396 *	\$160 *	148 =	\$939
	Small	0	0.0000 *	\$160 *	79 =	\$0
Maritime	Large	0	0.0000 *	\$160 *	36 =	\$0
	Small	0	0.0000 *	\$160 *	32 =	\$0
Construction	Large	2	0.1170 *	\$160 *	1,162 =	\$21,794
	Small	1	0.0390 *	\$160 *	4,650 =	\$29,078
Government	State	0	0.0225 *	\$160 *	12 =	\$42
	Local	0	0.0225 *	\$160 *	42 =	\$152
SECTOR 27. Solid Waste Incineration						
ALL	Large	0	0.0000 *	\$160 *	40 =	\$0
	Small	0	0.0000 *	\$160 *	48 =	\$0
Government	State	1	0.0438 *	\$160 *	0 =	\$0
	Local	0	0.0000 *	\$160 *	24 =	\$0
SECTOR 30. Superalloy Producers and Users						
ALL	Large	2	0.1056 *	\$160 *	19 =	\$322
	Small	0	0.0000 *	\$160 *	0 =	\$0
SECTOR 31. Construction						
Industrial Rehabilitation & Maintenance	Large	0	0.0000 *	\$160 *	51 =	\$0
	Small	0	0.0000 *	\$160 *	233 =	\$0
	State	0	0.0000 *	\$160 *	15 =	\$0
	Local	0	0.0000 *	\$160 *	88 =	\$0
Hazardous Waste Site Work	Large	0	0.0000 *	\$160 *	40 =	\$0
	Small	0	0.0000 *	\$160 *	170 =	\$0
	State	0	0.0000 *	\$160 *	1 =	\$0
	Local	0	0.0000 *	\$160 *	239 =	\$0
Refractory Brick Restoration	Large	11	0.5279 *	\$160 *	44 =	\$3,750
	Small	1	0.0528 *	\$160 *	175 =	\$1,483
<b>Total</b>					<b>70,349</b>	<b>\$842,799</b>

Table 22

**Annual Medical Examination (§§ 1910.1026(k)(2)(ii), (k)(3)(i), and (k)(3)(ii); 1915.1026(i)(2)(ii), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(ii), (i)(3)(i), and (i)(3)(ii))**

**Employee Time and Cost to Complete the Annual Medical Examination**

This table calculates the burden hours and costs associated with employee time to complete the annual medical examination in the year after the initial medical examination is completed. These hours and costs are for existing employees who are potentially exposed at or above the action level or who show "signs and symptoms" of exposure. The Agency assumes that a varying percentage of existing plants will have employees who will complete these exams; these percentages are specific to each sector and plant size (large or small). Employees who work for employers who conduct annual examinations, %BASEMED, will incur an incremental medical exam time of 3 hours. Employees who are not working for employers providing annual medical examinations (1-%BASEMED) will incur three hours for a full limited medical exam.

COST = (LIMEMPAL + MEDEXAMADDERM)\*(LIMPARTIME \* %BASEMED)+(LIMFULLTIME\*(1-%BASEMED))\*PLANTS

Hours= Burden Hours x NONSUPEWAGE

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after the implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

LIMPARTIME = Incremental employee time, in hours, for a partial limited exam

%BASEMED = Percentage of employers who are providing annual medical examinations

LIMFULLTIME = Employee time, in hours, for a full limited medical exam

\*1-%BASEMED = Percentage of plants that are not providing annual medical examinations.

\* #PLANTS = Number of Plants

24.17%

Variables		LIMEMPAL	MEDEXAMADDERM	LIMPARTIME	%BASEMED	LIMFULLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPEWAGE	Cost	Responses
<b>Sector 1. Electroplating</b>												
All	Large	( 3 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 1,848 =						1,848	15,133	\$26.61	\$402,692	5,044
	Small	( 0 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 3,478 =						3,478	0	\$26.61	\$0	0
<b>Sector 2. Welding</b>												
General Industry	Large	( 0 + 0.000000 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 7,857 =						7,857	0	\$26.20	\$0	0
	Small	( 0 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 8,804 =						8,804	0	\$26.20	\$0	0
Maritime	Large	( 14 + 2.898677 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 189 =						189	9,332	\$26.20	\$244,499	3,111
	Small	( 1 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 107 =						107	311	\$26.20	\$8,145	104
Construction	Large	( 26 + 2.898677 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 268 =						268	23,274	\$26.20	\$609,780	7,758
	Small	( 3 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 2,145 =						2,145	18,653	\$26.20	\$488,705	6,218
Government	State	( 0 + 0.000000 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 25 =						25	0	\$26.20	\$0	0
	Local	( 0 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 787 =						787	0	\$26.20	\$0	0
<b>Sector 2. Mild Steel Welding</b>												
General Industry	Large	( 0 + 0.000000 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 10,535 =						10,535	0	\$26.20	\$0	0
	Small	( 0 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 10,724 =						10,724	0	\$26.20	\$0	0
Maritime	Large	( 0 + 0.000000 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 409 =						409	0	\$26.20	\$0	0
	Small	( 0 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 232 =						232	0	\$26.20	\$0	0
Construction	Large	( 10 + 0.000000 ) * ( ( 3 * 5.00% ) + ( 3.00 * ( 1 - 5.00% ) ) ) * 402 =						402	11,651	\$26.20	\$305,257	3,884
	Small	( 1 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 3,037 =						3,037	8,803	\$26.20	\$230,631	2,934
<b>SECTOR 3. PAINTING</b>												
AEROSPACE	Large	( 45 + 0.000000 ) * ( ( 3 * 80.00% ) + ( 3.00 * ( 1 - 80.00% ) ) ) * 49 =						49	6,645	\$33.07	\$219,734	2,215
	Small	( 0 + 0.000000 ) * ( ( 3 * 50.00% ) + ( 3.00 * ( 1 - 50.00% ) ) ) * 62 =						62	0	\$33.07	\$0	0
Auto Body	Large	( 1 + 0.000000 ) * ( ( 3 * 80.00% ) + ( 3.00 * ( 1 - 80.00% ) ) ) * 326 =						326	886	\$33.07	\$29,298	295
	Small	( 0 + 0.000000 ) * ( ( 3 * 50.00% ) + ( 3.00 * ( 1 - 50.00% ) ) ) * 1,436 =						1,436	0	\$33.07	\$0	0
Coil Coating	Large	( 2 + 0.000000 ) * ( ( 3 * 80.00% ) + ( 3.00 * ( 1 - 80.00% ) ) ) * 100 =						100	541	\$33.07	\$17,904	180
	Small	( 1 + 0.000000 ) * ( ( 3 * 50.00% ) + ( 3.00 * ( 1 - 50.00% ) ) ) * 18 =						18	49	\$33.07	\$1,628	16
Maritime	Large	( 2 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 276 =						276	0	\$33.07	\$0	473
	Small	( 1 + 0.000000 ) * ( ( 3 * 50.00% ) + ( 3.00 * ( 1 - 50.00% ) ) ) * 476 =						476	1,227	\$33.07	\$40,556	409
Construction	Large	( 2 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 671 =						671	3,836	\$33.07	\$126,831	1,279
	Small	( 0 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 3,566 =						3,566	0	\$33.07	\$0	0
Government	State	( 0 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 12 =						12	0	\$33.07	\$0	0
	Local	( 6 + 0.000000 ) * ( ( 3 * 100.00% ) + ( 3.00 * ( 1 - 100.00% ) ) ) * 647 =						647	12,204	\$33.07	\$403,545	4,068
<b>SECTOR 4. Producers of Chromates</b>												
ALL	Large	( 7 + 0.000000 ) * ( ( 3 * 50.00% ) + ( 3.00 * ( 1 - 50.00% ) ) ) * 2 =						2	39	\$38.68	\$1,489	13
	Small	( 0 + 0.000000 ) * ( ( 3 * 0.00% ) + ( 3.00 * ( 1 - 0.00% ) ) ) * 0 =						0	0	\$38.68	\$0	0



Table 22

Variables				LIMEIMPAL	MEDEXAMADDERM	LIMPARTIME	%BASEMED	LIMPFULLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPEWAGE	Cost	Responses			
<b>SECTOR 22. Printing</b>																	
ALL	Large	(	0 +	0.000000	)* ((	3 *	80.00%	)+(	3.00 *	(	1 -	80.00%	) * 81 =	0	\$20.85	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	10.00%	)+(	3.00 *	(	1 -	10.00%	) * 325 =	0	\$20.85	\$0	0
<b>SECTOR 24. Chromium Catalyst Users</b>																	
General Industry	Large	(	0 +	0.000000	)* ((	3 *	80.00%	)+(	3.00 *	(	1 -	80.00%	) * 179 =	0	\$32.51	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	80.00%	)+(	3.00 *	(	1 -	80.00%	) * 0 =	0	\$32.51	\$0	0
Chromium Service Companies	Large	(	5 +	0.000000	)* ((	3 *	80.00%	)+(	3.00 *	(	1 -	80.00%	) * 23 =	379	\$32.51	\$12,331	126
	Small	(	3 +	0.000000	)* ((	3 *	30.00%	)+(	3.00 *	(	1 -	30.00%	) * 4 =	43	\$32.51	\$1,409	14
<b>SECTOR 25. Refractory Brick Producers</b>																	
ALL	Large	(	0 +	0.000000	)* ((	3 *	80.00%	)+(	3.00 *	(	1 -	80.00%	) * 5 =	0	\$25.64	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	10.00%	)+(	3.00 *	(	1 -	10.00%	) * 0 =	0	\$25.64	\$0	0
<b>SECTOR 26. Woodworking</b>																	
General Industry	Large	(	0 +	0.000000	)* ((	3 *	25.00%	)+(	3.00 *	(	1 -	25.00%	) * 148 =	0	\$32.11	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	0.00%	)+(	3.00 *	(	1 -	0.00%	) * 79 =	0	\$32.11	\$0	0
Maritime	Large	(	0 +	0.000000	)* ((	3 *	25.00%	)+(	3.00 *	(	1 -	25.00%	) * 36 =	0	\$32.11	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	0.00%	)+(	3.00 *	(	1 -	0.00%	) * 32 =	0	\$32.11	\$0	0
Construction	Large	(	1 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 1,162 =	2,719	\$32.11	\$87,322	906
	Small	(	1 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 4,650 =	10,885	\$32.11	\$349,523	3,628
Government	State	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 12 =	16	\$32.11	\$506	5
	Local	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 42 =	57	\$32.11	\$1,828	19
<b>SECTOR 27. Solid Waste Incineration</b>																	
ALL	Large	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 40 =	0	\$27.23	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	30.00%	)+(	3.00 *	(	1 -	30.00%	) * 48 =	0	\$27.23	\$0	0
Government	State	(	1 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 0 =	0	\$27.23	\$0	0
	Local	(	0 +	0.000000	)* ((	3 *	30.00%	)+(	3.00 *	(	1 -	30.00%	) * 24 =	0	\$27.23	\$0	0
<b>SECTOR 30. Superalloy Producers and Users</b>																	
ALL	Large	(	2 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 19 =	120	\$27.93	\$3,362	40
	Small	(	0 +	0.000000	)* ((	3 *	30.00%	)+(	3.00 *	(	1 -	30.00%	) * 0 =	0	\$27.89	\$0	0
<b>SECTOR 31. Construction</b>																	
Industrial Rehabilitation & Maintenance	Large	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 51 =	0	\$32.13	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 233 =	0	\$32.13	\$0	0
	State	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 15 =	0	\$32.13	\$0	0
	Local	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 88 =	0	\$32.13	\$0	0
Hazardous Waste Site Work	Large	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 40 =	0	\$32.13	\$0	0
	Small	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 170 =	0	\$32.13	\$0	0
	State	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 1 =	0	\$32.13	\$0	0
Refractory Brick Restoration	Local	(	0 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 239 =	0	\$32.13	\$0	0
	Large	(	1 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 44 =	140	\$32.13	\$4,511	47
Small	(	1 +	0.000000	)* ((	3 *	50.00%	)+(	3.00 *	(	1 -	50.00%	) * 175 =	555	\$32.13	\$17,839	185	
<b>Total</b>										<b>70,349</b>	<b>143,615</b>	<b>\$4,102,028</b>	<b>48,345</b>				

Table 23

Annual Medical Examination (§§ 1910.1026(k)(2)(ii), (k)(3)(i), and (k)(3)(ii); 1915.1026(i)(2)(ii), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(ii), (i)(3)(i), and (i)(3)(ii))

**Contract Cost for a PLHCP to Conduct the Medical Examination**

This table calculates the cost for a contractor PLHCP to conduct the annual medical examination. Employers who were providing annual examinations (%BASEMED) will incur a partial medical exam cost per employee. Employers who were NOT providing annual medical examinations (1-%BASEMED) will incur the full cost of a medical exam per employee.

$$COST = (LIMEMPAL + MEDEXAMADDERM) * ((PARTFULLCOST * \%BASEMED) + (LIMFULLCOST * (1 - \%BASEMED))) * PLANTS$$

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after the implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

PARTFULLCOST = The cost of a partial medical exam for employers who are providing annual medical examinations.

%BASEMED = Percentage of employers who are providing annual medical examinations

LIMITFULLCOST = The cost of a medical examination for employers who are not providing annual medical examinations

\*1-%BASEMED = Percentage of plants that are not providing annual medical examinations.

\* #PLANTS = Number of Plants

Variables		LIMEMPAL	MEDEXAMADDERM	LIMPARTCOST	%BASEMED	LIMFULLCOST	1-%BASEMED	#PLANTS	COST
<b>Sector 1. Electroplating</b>									
All	Large	3 +	0.000000	136.67	100.00%	\$160	1 - 100.00%	1,848	\$ 689,445
	Small	0 +	0.000000	136.67	100.00%	\$160	1 - 100.00%	3,478	\$ -
<b>Sector 2. Welding</b>									
General Industry	Large	0 +	0.000000	136.67	5.00%	\$160	1 - 5.00%	7,857	\$ -
	Small	0 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	8,804	\$ -
Maritime	Large	14 +	2.898677	136.67	5.00%	\$160	1 - 5.00%	189	\$ 494,912
	Small	1 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	107	\$ 16,609
Construction	Large	26 +	2.898677	136.67	5.00%	\$160	1 - 5.00%	268	\$ 1,234,308
	Small	3 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	2,145	\$ 996,568
Government	State	0 +	0.000000	136.67	5.00%	\$160	1 - 5.00%	25	\$ -
	Local	0 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	787	\$ -
<b>Sector 2. Mild Steel Welding</b>									
General Industry	Large	0 +	0.000000	136.67	5.00%	\$160	1 - 5.00%	10,535	\$ -
	Small	0 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	10,724	\$ -
Maritime	Large	0 +	0.000000	136.67	5.00%	\$160	1 - 5.00%	409	\$ -
	Small	0 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	232	\$ -
Construction	Large	10 +	0.000000	136.67	5.00%	\$160	1 - 5.00%	402	\$ 617,897
	Small	1 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	3,037	\$ 470,302
<b>SECTOR 3. PAINTING</b>									
<b>General Industry</b>									
AEROSPACE	Large	45 +	0.000000	136.67	80.00%	\$160	1 - 80.00%	49	\$ 313,202
	Small	0 +	0.000000	136.67	50.00%	\$160	1 - 50.00%	62	\$ -
Auto Body	Large	1 +	0.000000	136.67	80.00%	\$160	1 - 80.00%	326	\$ 41,760
	Small	0 +	0.000000	136.67	50.00%	\$160	1 - 50.00%	1,436	\$ -
Coil Coating	Large	2 +	0.000000	136.67	80.00%	\$160	1 - 80.00%	100	\$ 25,520
	Small	1 +	0.000000	136.67	50.00%	\$160	1 - 50.00%	18	\$ 2,436
Maritime	Large	2 +	0.000000	136.67	100.00%	\$160	1 - 100.00%	276	\$ 64,636
	Small	1 +	0.000000	136.67	50.00%	\$160	1 - 50.00%	476	\$ 60,702
Construction	Large	2 +	0.000000	136.67	100.00%	\$137	1 - 100.00%	671	\$ 174,744
	Small	0 +	0.000000	136.67	100.00%	\$137	1 - 100.00%	3,566	\$ -
Government	State	0 +	0.000000	136.67	100.00%	\$137	1 - 100.00%	12	\$ -
	Local	6 +	0.000000	136.67	100.00%	\$137	1 - 100.00%	647	\$ 555,994
<b>SECTOR 4. Producers of Chromates</b>									
ALL	Large	7 +	0.000000	136.67	50.00%	\$160	1 - 50.00%	2	\$ 1,906
	Small	0 +	0.000000	136.67	0.00%	\$160	1 - 0.00%	0	\$ -

Table 23

Variables		LIMEMPAL	MEDEXAMADDERM	LIMPPARTCOST	%BASEMED	LIMFULLCOST	1-%BASEMED	#PLANTS	COST
<b>SECTOR 5. Chromate Pigment Procedures</b>									
ALL	Large	( 8 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 2 = \$	1,992					
	Small	( 1 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 1 = \$	111					
<b>SECTOR 6. CCA Producers</b>									
ALL	Large	( 2 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 2 = \$	509					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 0 = \$	-					
<b>SECTOR 7. Chromium Catalyst Producers</b>									
ALL	Large	( 11 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 5 = \$	7,519					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 0 = \$	-					
<b>SECTOR 8. Paint and Coating Producers</b>									
ALL	Large	( 1 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 80 = \$	10,526					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 126 = \$	-					
<b>SECTOR 9. Printing Ink Producers</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 2 = \$	-					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 8 = \$	-					
<b>SECTOR 10. Plastic Colorant Producers and Users</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 81 = \$	-					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 40 = \$	-					
<b>SECTOR 11. Plating Mixture Producers</b>									
ALL	Large	( 3 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 6 = \$	2,364					
	Small	( 1 +	0.000000 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 4 = \$	542					
<b>SECTOR 13. Chromium Metal Producers</b>									
ALL	Large	( 7 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 1 = \$	902					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 0 = \$	-					
<b>SECTOR 14. Iron and Steel Mills</b>									
General Industry	Large	( 27 +	0.005900 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 34 = \$	134,786					
	Small	( 1 +	0.000281 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 11 = \$	2,124					
Carbon Steel	Large	( 1 +	0.000140 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 102 = \$	9,628					
	Small	( 1 +	0.000281 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 32 = \$	6,248					
<b>SECTOR 14B. Forging Industry</b>									
Reshaping	Large	( 0 +	0.000562 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 33 = \$	3					
	Small	( 0 +	0.000140 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 31 = \$	1					
<b>SECTOR 15. Iron and Steel Foundries</b>									
ALL	Large	( 17 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 163 = \$	397,046					
	Small	( 4 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 118 = \$	76,787					
<b>SECTOR 17. Chromium Dye Producers</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 3 = \$	-					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 1 = \$	-					
<b>SECTOR 18. Chromium Sulfate Producers</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 0 = \$	-					
	Small	( 1 +	0.000000 ) * ( ( 136.67 * 100.00% ) + ( \$160 * ( 1 - 100.00% ) ) * 5 = \$	627					
<b>SECTOR 19. Chemical Distributors</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 216 = \$	-					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 1,627 = \$	-					
<b>SECTOR 20. Textile Dyeing</b>									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 343 = \$	-					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 697 = \$	-					
<b>SECTOR 21. Colored Glass Producers</b>									
General Industry	Large	( 1 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 6 = \$	932					
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 20 = \$	-					

Table 23

Variables		LIME/PAL	MEDEXAMADDERM	LIMPARTCOST	%BASEMED	LIMFULLCOST	1-%BASEMED	#PLANTS	COST
Fiber, Flat and Container Glass	Large	( 9 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 90 = \$ 120,241						
	Small	( 2 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 5 = \$ 1,735						
SECTOR 22. Printing									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 81 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 325 = \$ -						
SECTOR 24. Chromium Catalyst Users									
General Industry	Large	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 179 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 0 = \$ -						
Chromium Service Companies	Large	( 5 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 23 = \$ 17,878						
	Small	( 3 +	0.000000 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 4 = \$ 2,214						
SECTOR 25. Refractory Brick Producers									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 80.00% ) + ( \$160 * ( 1 - 80.00% ) ) * 5 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 10.00% ) + ( \$160 * ( 1 - 10.00% ) ) * 0 = \$ -						
SECTOR 26. Woodworking									
General Industry	Large	( 0 +	0.000000 ) * ( ( 136.67 * 25.00% ) + ( \$160 * ( 1 - 25.00% ) ) * 148 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 79 = \$ -						
Maritime	Large	( 0 +	0.000000 ) * ( ( 136.67 * 25.00% ) + ( \$160 * ( 1 - 25.00% ) ) * 36 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 0.00% ) + ( \$160 * ( 1 - 0.00% ) ) * 32 = \$ -						
Construction	Large	( 1 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 1,162 = \$ 134,592						
	Small	( 1 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 4,650 = \$ 538,728						
Government	State	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 12 = \$ 780						
	Local	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 42 = \$ 2,818						
SECTOR 27. Solid Waste Incineration									
ALL	Large	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 40 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 48 = \$ -						
Government	State	( 1 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 0 = \$ -						
	Local	( 0 +	0.000000 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 24 = \$ -						
SECTOR 30. Superalloy Producers and Users									
ALL	Large	( 2 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 19 = \$ 5,958						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 30.00% ) + ( \$160 * ( 1 - 30.00% ) ) * 0 = \$ -						
SECTOR 31. Construction									
Industrial Rehabilitation & Maintenance	Large	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 51 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 233 = \$ -						
	State	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 15 = \$ -						
	Local	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 88 = \$ -						
Hazardous Waste Site Work	Large	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 40 = \$ -						
	Small	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 170 = \$ -						
	State	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 1 = \$ -						
	Local	( 0 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 239 = \$ -						
Refractory Brick Restoration	Large	( 1 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 44 = \$ 6,947						
	Small	( 1 +	0.000000 ) * ( ( 136.67 * 50.00% ) + ( \$160 * ( 1 - 50.00% ) ) * 175 = \$ 27,474						
<b>Total</b>								<b>70,349</b>	<b>\$ 7,272,952</b>

Table 24

**Initial Medical Examination with Additional Tests (§§1910.1026(k)(1)(i)(B) and (k)(3)(i)-(k)(3)(iii); 1915.1026(i)(1)(i)(B) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(1)(i)(B) and (i)(3)(i)-(i)(3)(iii))**

**Employee Time and Cost for Complete Initial Medical Examination with Additional Tests**

*The burden hour and cost equation is for the employee time to receive additional tests after the employee is found to have abnormal initial medical exam results. The Agency assumes that .5% of employees potentially exposed employees at or above the AL and workers with "signs and symptoms" will be found to have abnormal exam results and will receive additional testing.*

BURDEN HOURS = POTEXEMP \* 5% \* %PREVABN \* MEDEXAMADDAL \* #PLANTS  
 COST = Burden Hours \* NONSUPWAGE

\* POTEXEMP \* 5% = Total number of employees potentially exposed at or above the AL and workers with "signs and symptoms" before the implementation of engineering controls.

\* %PREVABN = Percent of previously exposed employees who will be found to have abnormal exam results.

\*MEDEXAMADDAL = Employee time for medical examination with additional testing

#PLANTS = Number of Plants

NONSUPEWAGE = Nonsupervisory wage rate.

Variables		0.0500				24.17%				Responses
		POTEXEMP * 5%	%PREVABN	MEDEXAMADDAL	#PLANTS	Hours	NONSUPWAGE	Cost		
<b>Sector 1. Electroplating</b>										
All	Large	0.2729 *	0.50% *	4 *	1,848 =	10 *	\$26.61	\$268	3	
	Small	0.0455 *	0.50% *	4 *	3,478 =	3 *	\$26.61	\$84	1	
<b>Sector 2. Welding</b>										
General Industry	Large	0.0966 *	0.50% *	4 *	7,857 =	15 *	\$26.20	\$398	4	
	Small	0.0000 *	0.50% *	4 *	8,804 =	0 *	\$26.20	\$0	0	
Maritime	Large	0.9179 *	0.50% *	4 *	189 =	3 *	\$26.20	\$91	1	
	Small	0.0483 *	0.50% *	4 *	107 =	0 *	\$26.20	\$3	0	
Construction	Large	2.4639 *	0.50% *	4 *	268 =	13 *	\$26.20	\$346	3	
	Small	0.2416 *	0.50% *	4 *	2,145 =	10 *	\$26.20	\$272	3	
Government	State	0.0966 *	0.50% *	4 *	25 =	0 *	\$26.20	\$1	0	
	Local	0.0000 *	0.50% *	4 *	787 =	0 *	\$26.20	\$0	0	
<b>Sector 2. Mild Steel Welding</b>										
General Industry	Large	0.0483 *	0.50% *	4 *	10,535 =	10 *	\$26.20	\$267	3	
	Small	0.0000 *	0.50% *	4 *	10,724 =	0 *	\$26.20	\$0	0	
Maritime	Large	0.0000 *	0.50% *	4 *	409 =	0 *	\$26.20	\$0	0	
	Small	0.0483 *	0.50% *	4 *	232 =	0 *	\$26.20	\$6	0	
Construction	Large	0.9179 *	0.50% *	4 *	402 =	7 *	\$26.20	\$193	2	
	Small	0.0966 *	0.50% *	4 *	3,037 =	6 *	\$26.20	\$154	1	
<b>SECTOR 3. PAINTING</b>										
General Industry AEROSPACE	Large	2.3097 *	0.50% *	4 *	49 =	2 *	\$33.07	\$75	1	
	Small	0.0453 *	0.50% *	4 *	62 =	0 *	\$33.07	\$2	0	



Table 24

Variables		POTXEMP * 5%	%PREVABN	MEDEXAMADDAL	#PLANTS	Hours	NONSUPWAGE	Cost	Responses
AUTOBODY REPAIR	Large	0.0920 *	0.50% *	4 *	326 =	1 *	\$33.07	\$20	0
	Small	0.0460 *	0.50% *	4 *	1,436 =	1 *	\$33.07	\$44	0
COIL COATING	Large	0.0906 *	0.50% *	4 *	100 =	0 *	\$33.07	\$6	0
	Small	0.0453 *	0.50% *	4 *	18 =	0 *	\$33.07	\$1	0
Maritime	Large	0.1287 *	0.50% *	4 *	276 =	1 *	\$33.07	\$23	0
	Small	0.0429 *	0.50% *	4 *	476 =	0 *	\$33.07	\$14	0
Construction	Large	0.0953 *	0.50% *	4 *	671 =	1 *	\$33.07	\$42	0
	Small	0.0318 *	0.50% *	4 *	3,566 =	2 *	\$33.07	\$75	1
Government	State	0.3146 *	0.50% *	4 *	12 =	0 *	\$33.07	\$2	0
	Local	0.0225 *	0.50% *	4 *	647 =	0 *	\$33.07	\$10	0
SECTOR 4. Producers of Chromates									
All	Large	0.3351 *	0.50% *	4 *	2 =	0 *	\$38.68	\$0	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$38.68	\$0	0
SECTOR 5. Chromate Pigment Procedures									
All	Large	1.0797 *	0.50% *	4 *	2 =	0 *	\$37.70	\$1	0
	Small	0.1350 *	0.50% *	4 *	1 =	0 *	\$37.70	\$0	0
SECTOR 6. CCA Producers									
All	Large	0.1182 *	0.50% *	4 *	2 =	0 *	\$31.94	\$0	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$31.94	\$0	0
SECTOR 7. Chromium Catalyst Producers									
All	Large	1.2448 *	0.50% *	4 *	5 =	0 *	\$38.68	\$5	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$38.68	\$0	0
SECTOR 8. Paint and Coating Producers									
All	Large	0.2394 *	0.50% *	4 *	80 =	0 *	\$28.81	\$11	0
	Small	0.0958 *	0.50% *	4 *	126 =	0 *	\$28.81	\$7	0
SECTOR 9. Printing Ink Producers									
All	Large	0.0000 *	0.50% *	4 *	2 =	0 *	\$28.86	\$0	0
	Small	0.0000 *	0.50% *	4 *	8 =	0 *	\$28.86	\$0	0
SECTOR 10. Plastic Colorant Producers and Users									
All	Large	0.0000 *	0.50% *	4 *	81 =	0 *	\$31.99	\$0	0
	Small	0.0000 *	0.50% *	4 *	40 =	0 *	\$31.99	\$0	0
SECTOR 11. Plating Mixture Producers									
All	Large	0.1411 *	0.50% *	4 *	6 =	0 *	\$28.71	\$0	0
	Small	0.0941 *	0.50% *	4 *	4 =	0 *	\$28.71	\$0	0
SECTOR 13. Chromium Metal Producers									
All	Large	0.5903 *	0.50% *	4 *	1 =	0 *	\$38.80	\$0	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$38.80	\$0	0

Table 24

Variables		POTXEMP * 5%	%PREVABN	MEDEXAMADDAL	#PLANTS	Hours	NONSUPWAGE	Cost	Responses
SECTOR 14. Iron and Steel Mills									
All	Large	1.8198 *	0.50% *	4 *	34 =	1 *	\$38.80	\$48	0
	Small	0.0639 *	0.50% *	4 *	11 =	0 *	\$38.80	\$1	0
Carbon Steel	Large	0.4470 *	0.50% *	4 *	102 =	1 *	\$38.80	\$35	0
	Small	0.0639 *	0.50% *	4 *	32 =	0 *	\$38.80	\$2	0
14B.									
Reshaping Industry	Large	0.1277 *	0.50% *	4 *	33 =	0 *	\$38.80	\$3	0
	Small	0.0000 *	0.50% *	4 *	31 =	0 *	\$38.80	\$0	0
SECTOR 15. Iron and Steel Foundries									
All	Large	1.2327 *	0.50% *	4 *	163 =	4 *	\$28.31	\$114	1
	Small	0.2465 *	0.50% *	4 *	118 =	1 *	\$28.31	\$17	0
SECTOR 17. Chromium Dye Producers									
All	Large	0.0000 *	0.50% *	4 *	3 =	0 *	\$37.70	\$0	0
	Small	0.0000 *	0.50% *	4 *	1 =	0 *	\$37.70	\$0	0
SECTOR 18. Chromium Sulfate Producers									
All	Large	0.0000 *	0.50% *	4 *	0 =	0 *	\$41.50	\$0	0
	Small	0.1436 *	0.50% *	4 *	5 =	0 *	\$41.50	\$1	0
SECTOR 19. Chemical Distributors									
All	Large	0.0000 *	0.50% *	4 *	216 =	0 *	\$29.92	\$0	0
	Small	0.0000 *	0.50% *	4 *	1,627 =	0 *	\$29.92	\$0	0
SECTOR 20. Textile Dyeing									
All	Large	0.0000 *	0.50% *	4 *	343 =	0 *	\$19.97	\$0	0
	Small	0.0000 *	0.50% *	4 *	697 =	0 *	\$19.97	\$0	0
SECTOR 21. Colored Glass Producers									
All	Large	0.0524 *	0.50% *	4 *	6 =	0 *	\$28.87	\$0	0
	Small	0.0000 *	0.50% *	4 *	20 =	0 *	\$28.87	\$0	0
Fiber, Flat and Container Glass	Large	0.5765 *	0.50% *	4 *	90 =	1 *	\$28.87	\$30	0
	Small	0.1048 *	0.50% *	4 *	5 =	0 *	\$28.87	\$0	0
SECTOR 22. Printing									
All	Large	0.0000 *	0.50% *	4 *	81 =	0 *	\$20.85	\$0	0
	Small	0.0000 *	0.50% *	4 *	325 =	0 *	\$20.85	\$0	0
SECTOR 24. Chromium Catalyst Users									
All	Large	0.0549 *	0.50% *	4 *	179 =	0 *	\$32.51	\$6	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$32.51	\$0	0
Catalyst Service Companies	Large	0.5487 *	0.50% *	4 *	23 =	0 *	\$32.51	\$8	0
	Small	0.2743 *	0.50% *	4 *	4 =	0 *	\$32.51	\$1	0

Table 24

Variables		POTXEMP * 5%	%PREVABN	MEDEXAMADDAL	#PLANTS	Hours	NONSUPEWAGE	Cost	Responses
SECTOR 25. Refractory Brick Producers									
All	Large	0.0000 *	0.50% *	4 *	5 =	0 *	\$25.64	\$0	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$25.64	\$0	0
SECTOR 26. Woodworking									
General Industry	Large	0.0396 *	0.50% *	4 *	148 =	0 *	\$32.11	\$4	0
	Small	0.0000 *	0.50% *	4 *	79 =	0 *	\$32.11	\$0	0
Maritime	Large	0.0000 *	0.50% *	4 *	36 =	0 *	\$32.11	\$0	0
	Small	0.0000 *	0.50% *	4 *	32 =	0 *	\$32.11	\$0	0
Construction	Large	0.1170 *	0.50% *	4 *	1,162 =	3 *	\$32.11	\$87	1
	Small	0.0390 *	0.50% *	4 *	4,650 =	4 *	\$32.11	\$117	1
Government	Local	0.0225 *	0.50% *	4 *	12 =	0 *	\$32.11	\$0	0
	State	0.0225 *	0.50% *	4 *	42 =	0 *	\$32.11	\$1	0
SECTOR 27. Solid Waste Incineration									
ALL	Large	0.0000 *	0.50% *	4 *	40 =	0 *	\$32.11	\$0	0
	Small	0.0000 *	0.50% *	4 *	48 =	0 *	\$32.11	\$0	0
Government	Local	0.0438 *	0.50% *	4 *	0 =	0 *	\$27.23	\$0	0
	State	0.0000 *	0.50% *	4 *	24 =	0 *	\$27.23	\$0	0
SECTOR 30. Superalloy Producers and Users									
ALL	Large	0.1056 *	0.50% *	4 *	19 =	0 *	\$27.93	\$0	0
	Small	0.0000 *	0.50% *	4 *	0 =	0 *	\$27.93	\$0	0
SECTOR 31. Construction									
Industrial Rehabilitation & Maintenance	Large	0.0000 *	0.50% *	4 *	51 =	0 *	\$32.13	\$0	0
	Small	0.0000 *	0.50% *	4 *	233 =	0 *	\$32.13	\$0	0
	State Gov't	0.0000 *	0.50% *	4 *	15 =	0 *	\$32.13	\$0	0
	Local Gov't	0.0000 *	0.50% *	4 *	88 =	0 *	\$32.13	\$0	0
Hazardous Waste Site Work	Large	0.0000 *	0.50% *	4 *	40 =	0 *	\$32.13	\$0	0
	Small	0.0000 *	0.50% *	4 *	170 =	0 *	\$32.13	\$0	0
	State Gov't	0.0000 *	0.50% *	4 *	1 =	0 *	\$32.13	\$0	0
	Local Gov't	0.0000 *	0.50% *	4 *	239 =	0 *	\$32.13	\$0	0
Refractory Brick Restoration & Maintenance	Large	0.5279 *	0.50% *	4 *	44 =	0 *	\$32.13	\$15	0
	Small	0.0528 *	0.50% *	4 *	175 =	0 *	\$32.13	\$6	0
Total					<b>70,349</b>	<b>105</b>	<b>\$2,915</b>	<b>\$26</b>	<b>26</b>

Table 25

**Initial Medical Examination with Additional Tests (§§1910.1026(k)(1)(i)(B) and (k)(3)(i)-(k)(3)(iii); 1915.1026(i)(1)(i)(B) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(1)(i)(B) and (i)(3)(i)-(i)(3)(iii))**

**Contract Cost for a PLHCP to Conduct the Initial Medical Examination with Additional Tests**

*This table calculates the cost for a contractor PLHCP to conduct additional medical testing for those employees who have abnormal annual medical examination results.*

\* POTEEMP \* 5% = Total number of new potentially exposed employees at or above the AL and workers with "signs and symptoms" before the implementation of engineering controls.

\* %PREVABN = Percent of previously exposed employees who will be found to have abnormal exam results.

\*MEDCOSTADD = Cost for medical examination with additional testing

#PLANTS = Number of Plants

		POTEEMP * 5%		%PREVABN		MEDCOSTADD		#PLANTS	Cost
<b>Sector 1. Electroplating</b>									
All	Large	0.2729 *		0.50% *		\$273.33 *		1,848 =	\$689
	Small	0.0455 *		0.50% *		\$273.33 *		3,478 =	\$216
<b>Sector 2. Welding</b>									
General Industry	Large	0.0966 *		0.50% *		\$273.33 *		7,857 =	\$1,038
	Small	0.0000 *		0.50% *		\$273.33 *		8,804 =	\$0
Maritime	Large	0.9179 *		0.50% *		\$273.33 *		189 =	\$238
	Small	0.0483 *		0.50% *		\$273.33 *		107 =	\$7
Construction	Large	2.4639 *		0.50% *		\$273.33 *		268 =	\$901
	Small	0.2416 *		0.50% *		\$273.33 *		2,145 =	\$708
Government	State	0.0966 *		0.50% *		\$273.33 *		25 =	\$3
	Local	0.0000 *		0.50% *		\$273.33 *		787 =	\$0
<b>Sector 2. Mild Steel Welding</b>									
General Industry	Large	0.0483 *		0.50% *		\$273.33 *		10,535 =	\$696
	Small	0.0000 *		0.50% *		\$273.33 *		10,724 =	\$0
Maritime	Large	0.0000 *		0.50% *		\$273.33 *		409 =	\$0
	Small	0.0483 *		0.50% *		\$273.33 *		232 =	\$15
Construction	Large	0.9179 *		0.50% *		\$273.33 *		402 =	\$504
	Small	0.0966 *		0.50% *		\$273.33 *		3,037 =	\$401
<b>SECTOR 3. PAINTING</b>									
General Industry AEROSPACE	Large	2.3097 *		0.50% *		\$273.33 *		49 =	\$154
	Small	0.0453 *		0.50% *		\$273.33 *		62 =	\$4
General Industry AUTOBODY	Large	0.0920 *		0.50% *		\$273.33 *		326 =	\$41
	Small	0.0460 *		0.50% *		\$273.33 *		1,436 =	\$90
COIL COATING	Large	0.0906 *		0.50% *		\$273.33 *		100 =	\$12
	Small	0.0453 *		0.50% *		\$273.33 *		18 =	\$1

Table 25

		POTXEMP * 5%		%PREVABN		MEDCOSTADD		#PLANTS	Cost
Maritime	Large	0.1287	*	0.50%	*	\$273.33	*	276 =	\$48
	Small	0.0429	*	0.50%	*	\$273.33	*	476 =	\$28
Construction	Large	0.0953	*	0.50%	*	\$273.33	*	671 =	\$87
	Small	0.0318	*	0.50%	*	\$273.33	*	3,566 =	\$155
Governments	State	0.3146	*	0.50%	*	\$273.33	*	12 =	\$5
	Local	0.0225	*	0.50%	*	\$273.33	*	647 =	\$20
SECTOR 4. Producers of Chromates									
ALL	Large	0.3351	*	0.50%	*	\$273.33	*	2 =	\$1
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
SECTOR 5. Chromate Pigment Procedures									
ALL	Large	1.0797	*	0.50%	*	\$273.33	*	2 =	\$3
	Small	0.1350	*	0.50%	*	\$273.33	*	1 =	\$0
SECTOR 6. CCA Producers									
ALL	Large	0.1182	*	0.50%	*	\$273.33	*	2 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
SECTOR 7. Chromium Catalyst Producers									
ALL	Large	1.2448	*	0.50%	*	\$273.33	*	5 =	\$8
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
SECTOR 8. Paint and Coating Producers									
ALL	Large	0.2394	*	0.50%	*	\$273.33	*	80 =	\$26
	Small	0.0958	*	0.50%	*	\$273.33	*	126 =	\$17
SECTOR 9. Printing Ink Producers									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	2 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	8 =	\$0
SECTOR 10. Plastic Colorant Producers and Users									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	81 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	40 =	\$0
SECTOR 11. Plating Mixture Producers									
ALL	Large	0.1411	*	0.50%	*	\$273.33	*	6 =	\$1
	Small	0.0941	*	0.50%	*	\$273.33	*	4 =	\$0
SECTOR 13. Chromium Metal Producers									
ALL	Large	0.5903	*	0.50%	*	\$273.33	*	1 =	\$1
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
SECTOR 14. Iron and Steel Mills									
ALL	Large	1.8198	*	0.50%	*	\$273.33	*	34 =	\$84
	Small	0.0639	*	0.50%	*	\$273.33	*	11 =	\$1

Table 25

		POTEXEMP * 5%		%PREVABN		MEDCOSTADD		#PLANTS	Cost
Carbon Steel	Large	0.4470	*	0.50%	*	\$273.33	*	102 =	\$62
	Small	0.0639	*	0.50%	*	\$273.33	*	32 =	\$3
SECTOR 14B. Forging Industry									
ALL	Large	0.1277	*	0.50%	*	\$273.33	*	33 =	\$6
	Small	0.0000	*	0.50%	*	\$273.33	*	31 =	\$0
SECTOR 15. Iron and Steel Foundries									
ALL	Large	1.2327	*	0.50%	*	\$273.33	*	163 =	\$274
	Small	0.2465	*	0.50%	*	\$273.33	*	118 =	\$40
SECTOR 17. Chromium Dye Producers									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	3 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	1 =	\$0
SECTOR 18. Chromium Sulfate Producers									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
	Small	0.1436	*	0.50%	*	\$273.33	*	5 =	\$1
SECTOR 19. Chemical Distributors									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	216 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	1,627 =	\$0
SECTOR 20. Textile Dyeing									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	343 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	697 =	\$0
SECTOR 21. Colored Glass Producers									
ALL	Large	0.0524	*	0.50%	*	\$273.33	*	6 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	20 =	\$0
Fiber, Flat, Container Glass	Large	0.5765	*	0.50%	*	\$273.33	*	90 =	\$71
	Small	0.1048	*	0.50%	*	\$273.33	*	5 =	\$1
SECTOR 22. Printing									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	81 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	325 =	\$0
SECTOR 24. Chromium Catalyst Users									
ALL	Large	0.0549	*	0.50%	*	\$273.33	*	179 =	\$13
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
Chromium Catalyst Companies	Large	0.5487	*	0.50%	*	\$273.33	*	23 =	\$17
	Small	0.2743	*	0.50%	*	\$273.33	*	4 =	\$2
SECTOR 25. Refractory Brick Producers									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	5 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0

Table 25

		POTEXEMP * 5%		%PREVABN		MEDCOSTADD		#PLANTS	Cost
<b>SECTOR 26. Woodworking</b>									
General Industry	Large	0.0396	*	0.50%	*	\$273.33	*	148 =	\$8
	Small	0.0000	*	0.50%	*	\$273.33	*	79 =	\$0
Maritime	Large	0.0000	*	0.50%	*	\$273.33	*	36 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	32 =	\$0
Construction	Large	0.1170	*	0.50%	*	\$273.33	*	1,162 =	\$186
	Small	0.0390	*	0.50%	*	\$273.33	*	4,650 =	\$248
Government	State	0.0225	*	0.50%	*	\$273.33	*	12 =	\$0
	Local	0.0225	*	0.50%	*	\$273.33	*	42 =	\$1
<b>SECTOR 27. Solid Waste Incineration</b>									
ALL	Large	0.0000	*	0.50%	*	\$273.33	*	40 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	48 =	\$0
Government	State	0.0438	*	0.50%	*	\$273.33	*	0 =	\$0
	Local	0.0000	*	0.50%	*	\$273.33	*	24 =	\$0
<b>SECTOR 30. Superalloy Producers and Users</b>									
ALL	Large	0.1056	*	0.50%	*	\$273.33	*	19 =	\$3
	Small	0.0000	*	0.50%	*	\$273.33	*	0 =	\$0
<b>SECTOR 31. Construction</b>									
Industrial Rehabilitation & Maintenance	Large	0.0000	*	0.50%	*	\$273.33	*	51 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	233 =	\$0
	State Gov't	0.0000	*	0.50%	*	\$273.33	*	15 =	\$0
	Local Gov't	0.0000	*	0.50%	*	\$273.33	*	88 =	\$0
Hazardous Waste Site Work	Large	0.0000	*	0.50%	*	\$273.33	*	40 =	\$0
	Small	0.0000	*	0.50%	*	\$273.33	*	170 =	\$0
	State Gov't	0.0000	*	0.50%	*	\$273.33	*	1 =	\$0
	Local Gov't	0.0000	*	0.50%	*	\$273.33	*	239 =	\$0
Refractory Brick Restoration & Maintenance	Large	0.5279	*	0.50%	*	\$273.33	*	44 =	\$32
	Small	0.0528	*	0.50%	*	\$273.33	*	175 =	\$13
<b>Total</b>								<b>70,349</b>	<b>\$7,186</b>

**Annual Medical Examination with Additional Tests (1910.1026(k)(2)(ii) and (k)(3)(i)-(k)(3)(iii) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(2)(ii) and (i)(3)(i)-(i)(3)(iii))**

**Employee Time and Cost to Complete the Annual Medical Examination with Additional Tests**

*This table calculates the burden hours and costs for the time it takes an employee to receive additional tests after the employee is found to have abnormal annual medical exam test results.*

Hours = (LIMEMPAL + MEDEXAMADDERM) \* %ALABN \* ADDMEDTIME \* #PLANTS

Cost =Hours \*NONSUPWAGE

- \* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.
- \* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.
- \*%ALABN = Percent of employees exposed at or above the action level 30 days per year (and therefore requiring a limited or comprehensive medical exam who will be found to have abnormal results)
- \*ADDMEDTIME = Three hours for an employee to receive additional testing after exam tests are abnormal.
- \*NONSUPEWAGE - Non-supervisory wage rate
- \* #PLANTS = Number of Plants

24.17%

Variables		LIMEMPAL	MEDEXAMADDERM	%ALABN	ADDMEDTIME	#PLANTS	Hours	NONSUPEWAGE	Cost	RESPONSES
<b>Sector 1. Electroplating</b>										
ALL	Large	( 3 + 0.00000 )	* 0.50%	* 3	*	1,848 =	76 *	\$26.61	\$2,013	25
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	3,478 =	0 *	\$21.43	\$0	0
<b>Sector 2. Welding</b>										
General Industry	Large	( 0 + 0.00000 )	* 0.50%	* 3	*	7,857 =	0 *	\$26.20	\$0	0
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	8,804 =	0 *	\$21.43	\$0	0
Maritime	Large	( 14 + 2.89868 )	* 0.50%	* 3	*	189 =	47 *	\$26.20	\$1,222	16
	Small	( 1 + 0.00000 )	* 0.50%	* 3	*	107 =	2 *	\$22.43	\$35	1
Construction	Large	( 26 + 2.89868 )	* 0.50%	* 3	*	268 =	116 *	\$26.20	\$3,049	39
	Small	( 3 + 0.00000 )	* 0.50%	* 3	*	2,145 =	93 *	\$23.43	\$2,185	31
GOVERNMENT	Local	( 0 + 0.00000 )	* 0.50%	* 3	*	25 =	0 *	\$26.20	\$0	0
	State	( 0 + 0.00000 )	* 0.50%	* 3	*	787 =	0 *	\$24.43	\$0	0
<b>Sector 2. Mild Steel Welding</b>										
General Industry	Large	( 0 + 0.00000 )	* 0.50%	* 3	*	10,535 =	0 *	\$26.20	\$0	0
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	10,724 =	0 *	\$24.43	\$0	0
Maritime	Large	( 0 + 0.00000 )	* 0.50%	* 3	*	409 =	0 *	\$26.20	\$0	0
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	232 =	0 *	\$25.43	\$0	0
Construction	Large	( 10 + 0.00000 )	* 0.50%	* 3	*	402 =	58 *	\$26.20	\$1,526	19
	Small	( 1 + 0.00000 )	* 0.50%	* 3	*	3,037 =	44 *	\$26.43	\$1,163	15
<b>SECTOR 3. PAINTING</b>										
<b>GENERAL INDUSTRY</b>										
AEROSPACE	Large	( 45 + 0.00000 )	* 0.50%	* 3	*	49 =	33 *	\$33.07	\$1,099	11
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	62 =	0 *	\$26.43	\$0	0
Autobody	Large	( 1 + 0.00000 )	* 0.50%	* 3	*	326 =	4 *	\$33.07	\$146	1
	Small	( 0 + 0.00000 )	* 0.50%	* 3	*	1,436 =	0 *	\$27.43	\$0	0
Coil Coating	Large	( 2 + 0.00000 )	* 0.50%	* 3	*	100 =	3 *	\$33.07	\$90	1
	Small	( 1 + 0.00000 )	* 0.50%	* 3	*	18 =	0 *	\$28.43	\$7	0



Table 26

Maritime	Large	( 2 + 0.00000 ) * 0.50% * 3 * 276 =	7 * \$33.07	\$235	2
	Small	( 1 + 0.00000 ) * 0.50% * 3 * 476 =	6 * \$29.43	\$180	2
Construction	Large	( 2 + 0.00000 ) * 0.50% * 3 * 671 =	19 * \$33.07	\$634	6
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 3,566 =	0 * \$30.43	\$0	0
Government	Local	( 0 + 0.00000 ) * 0.50% * 3 * 12 =	0 * \$33.07	\$0	0
	State	( 6 + 0.00000 ) * 0.50% * 3 * 647 =	61 * \$31.43	\$1,918	20
SECTOR 4. Producers of Chromates					
ALL	Large	( 7 + 0.00000 ) * 0.50% * 3 * 2 =	0 * \$38.68	\$7	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 0 =	0 * \$31.43	\$0	0
SECTOR 5. Chromate Pigment Procedures					
ALL	Large	( 8 + 0.00000 ) * 0.50% * 3 * 2 =	0 * \$37.70	\$8	0
	Small	( 1 + 0.00000 ) * 0.50% * 3 * 1 =	0 * \$31.43	\$0	0
SECTOR 6. CCA Producers					
ALL	Large	( 2 + 0.00000 ) * 0.50% * 3 * 2 =	0 * \$31.94	\$2	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 0 =	0 * \$31.43	\$0	0
SECTOR 7. Chromium Catalyst Producers					
ALL	Large	( 11 + 0.00000 ) * 0.50% * 3 * 5 =	1 * \$38.68	\$32	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 0 =	0 * \$31.43	\$0	0
SECTOR 8. Paint and Coating Producers					
ALL	Large	( 1 + 0.00348 ) * 0.50% * 3 * 80 =	1 * \$28.81	\$33	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 126 =	0 * \$31.43	\$0	0
SECTOR 9. Printing Ink Producers					
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 * 2 =	0 * \$28.86	\$0	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 8 =	0 * \$31.43	\$0	0
SECTOR 10. Plastic Colorant Producers and Users					
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 * 81 =	0 * \$31.99	\$0	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 40 =	0 * \$31.43	\$0	0
SECTOR 11. Plating Mixture Producers					
ALL	Large	( 3 + 0.00000 ) * 0.50% * 3 * 6 =	0 * \$28.71	\$7	0
	Small	( 1 + 0.00000 ) * 0.50% * 3 * 4 =	0 * \$31.43	\$2	0
SECTOR 13. Chromium Metal Producers					
ALL	Large	( 7 + 0.00000 ) * 0.50% * 3 * 1 =	0 * \$38.80	\$4	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 0 =	0 * \$31.43	\$0	0
SECTOR 14. Iron and Steel Mills					
Alloy Stainless Steel	Large	( 27 + 0.00590 ) * 0.50% * 3 * 34 =	14 * \$38.80	\$528	5
	Small	( 1 + 0.00028 ) * 0.50% * 3 * 11 =	0 * \$31.43	\$7	0
Carbon Steel	Large	( 1 + 0.00014 ) * 0.50% * 3 * 102 =	1 * \$38.80	\$38	0
	Small	( 1 + 0.00028 ) * 0.50% * 3 * 32 =	1 * \$31.43	\$19	0
14B. Alloy Stainless Steel Forging Industry					
Reshaping	Large	( 0 + 0.00056 ) * 0.50% * 3 * 33 =	0 * \$38.80	\$0	0
	Small	( 0 + 0.00014 ) * 0.50% * 3 * 31 =	0 * \$31.43	\$0	0
SECTOR 15. Iron and Steel Foundries					
ALL	Large	( 17 + 0.00000 ) * 0.50% * 3 * 163 =	42 * \$28.31	\$1,192	14
	Small	( 4 + 0.00000 ) * 0.50% * 3 * 118 =	7 * \$31.43	\$229	2
SECTOR 17. Chromium Dye Producers					
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 * 3 =	0 * \$37.70	\$0	0
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 1 =	0 * \$31.43	\$0	0

Table 26

SECTOR 18. Chromium Sulfate Producers									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	0 =	0 *	\$41.50	\$0	0		
	Small	( 1 + 0.00000 ) * 0.50% * 3 *	5 =	0 *	\$31.43	\$2	0		
SECTOR 19. Chemical Distributors									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	216 =	0 *	\$29.92	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	1,627 =	0 *	\$31.43	\$0	0		
SECTOR 20. Textile Dyeing									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	343 =	0 *	\$19.97	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	697 =	0 *	\$31.43	\$0	0		
SECTOR 21. Colored Glass Producers									
ALL	Large	( 1 + 0.00000 ) * 0.50% * 3 *	6 =	0 *	\$28.87	\$3	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	20 =	0 *	\$31.43	\$0	0		
Fiber, Flat and Container Glass	Large	( 9 + 0.00000 ) * 0.50% * 3 *	90 =	13 *	\$28.87	\$368	4		
	Small	( 2 + 0.00000 ) * 0.50% * 3 *	5 =	0 *	\$31.43	\$5	0		
SECTOR 22. Printing									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	81 =	0 *	\$20.85	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	325 =	0 *	\$31.43	\$0	0		
SECTOR 24. Chromium Catalyst Users									
Catalyst Users	Large	( 0 + 0.00000 ) * 0.50% * 3 *	179 =	0 *	\$32.51	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	0 =	0 *	\$31.43	\$0	0		
Chromium Catalyst Service Companies	Large	( 5 + 0.00000 ) * 0.50% * 3 *	23 =	2 *	\$32.51	\$62	1		
	Small	( 3 + 0.00000 ) * 0.50% * 3 *	4 =	0 *	\$31.43	\$7	0		
SECTOR 25. Refractory Brick Producers									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	5 =	0 *	\$25.64	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	0 =	0 *	\$31.43	\$0	0		
SECTOR 26. Woodworking									
General Industry	Large	( 0 + 0.00000 ) * 0.50% * 3 *	148 =	0 *	\$32.11	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	79 =	0 *	\$31.43	\$0	0		
Maritime	Large	( 0 + 0.00000 ) * 0.50% * 3 *	36 =	0 *	\$32.11	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	32 =	0 *	\$31.43	\$0	0		
Construction	Large	( 1 + 0.00000 ) * 0.50% * 3 *	1,162 =	14 *	\$32.11	\$437	5		
	Small	( 1 + 0.00000 ) * 0.50% * 3 *	4,650 =	54 *	\$31.43	\$1,711	18		
Government	State	( 0 + 0.00000 ) * 0.50% * 3 *	12 =	0 *	\$32.11	\$3	0		
	Local	( 0 + 0.00000 ) * 0.50% * 3 *	42 =	0 *	\$31.43	\$9	0		
SECTOR 27. Solid Waste Incineration									
ALL	Large	( 0 + 0.00000 ) * 0.50% * 3 *	40 =	0 *	\$27.23	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	48 =	0 *	\$31.43	\$0	0		
Government	State	( 0 + 0.00000 ) * 0.50% * 3 *	0 =	0 *	\$27.23	\$0	0		
	Local	( 0 + 0.00000 ) * 0.50% * 3 *	24 =	0 *	\$32.43	\$0	0		
SECTOR 30. Superalloy Producers and Users									
ALL	Large	( 4 + 0.00000 ) * 0.50% * 3 *	19 =	1 *	\$27.93	\$34	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	0 =	0 *	\$32.43	\$0	0		
SECTOR 31. Construction									
Industrial Rehabilitation & Maintenance	Large	( 0 + 0.00000 ) * 0.50% * 3 *	51 =	0 *	\$32.13	\$0	0		
	Small	( 0 + 0.00000 ) * 0.50% * 3 *	233 =	0 *	\$32.43	\$0	0		
	State Gd	( 0 + 0.00000 ) * 0.50% * 3 *	15 =	0 *	\$32.13	\$0	0		
	Local Gd	( 0 + 0.00000 ) * 0.50% * 3 *	88 =	0 *	\$33.43	\$0	0		

Table 26

Hazardous Waste Site Work	Large	( 0 + 0.00000 ) * 0.50% * 3 * 40 =	0 * \$32.13	\$0	0	
	Small	( 0 + 0.00000 ) * 0.50% * 3 * 170 =	0 * \$34.43	\$0	0	
	State Gd	( 0 + 0.00000 ) * 0.50% * 3 * 1 =	0 * \$32.13	\$0	0	
	Local Gd	( 0 + 0.00000 ) * 0.50% * 3 * 239 =	0 * \$35.43	\$0	0	
Refractory Brick Restoration	Large	( 1 + 0.00000 ) * 0.50% * 3 * 44 =	1 * \$32.13	\$23	0	
	Small	( 1 + 0.00000 ) * 0.50% * 3 * 175 =	3 * \$36.43	\$101	1	
<b>TOTALS</b>			<b>70,349</b>	<b>726</b>	<b>\$20,375</b>	<b>242</b>

Table 27

**Annual Medical Examination with Additional Tests (§§ 1910.1026(k)(2)(ii) and (k)(3)(i)-(k)(3)(iii); 1915.1026(i)(2)(ii) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(2)(ii) and (i)(3)(i)-(i)(3)(ii))**

**Contract Cost for a PLHCP to Conduct the Annual Medical Examination with Additional Tests**

*This table calculates the cost for a contractor PLHCP to conduct additional medical testing for those employees who have abnormal annual medical examination results. Abnormal results will require additional medical testing "as deemed appropriate by the physician."*

$COST = (LIMEMPAL + MEDEXAMADDERM) * \%ALABN * MEDCOSTADD * \#PLANTS$

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

\*%ALABN = Percent of employees exposed at or above the action level 30 days per year (and therefore requiring a limited or comprehensive medical exam who will be found to have abnormal results

#PLANTS = Number of Plants

Variables		LIMEMPAL	MEDEXAMADDERM	%ALABN	MEDCOSTADD	#PLANTS	Cost
<b>Sector 1. Electroplating</b>							
All	Large	( 3 + 0.000000 ) *		0.50% ) *	\$273.33 *	1,848 =	\$6,894
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	3,478 =	\$0
<b>Sector 2. Welding</b>							
General Industry	Large	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	7,857 =	\$0
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	8,804 =	\$0
Maritime	Large	( 14 + 0.000000 ) *		0.50% ) *	\$273.33 *	189 =	\$3,501
	Small	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	107 =	\$142
Construction	Large	( 26 + 2.898677 ) *		0.50% ) *	\$273.33 *	268 =	\$10,603
	Small	( 3 + 0.000000 ) *		0.50% ) *	\$273.33 *	2,145 =	\$8,498
Government	State	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	25 =	\$0
	Local	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	787 =	\$0
<b>Sector 2. Mild Steel Welding</b>							
General Industry	Large	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	10,535 =	\$0
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	10,724 =	\$0
Maritime	Large	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	409 =	\$0
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	232 =	\$0
Construction	Large	( 10 + 0.000000 ) *		0.50% ) *	\$273.33 *	402 =	\$5,308
	Small	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	3,037 =	\$4,010
<b>SECTOR 3. PAINTING</b>							
General Industry AEROSPACE	Large	( 45 + 0.000000 ) *		0.50% ) *	\$273.33 *	49 =	\$3,027
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	62 =	\$0
General Industry AUTOBODY	Large	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	326 =	\$404
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	1,436 =	\$0
COIL COATING	Large	( 2 + 0.000000 ) *		0.50% ) *	\$273.33 *	100 =	\$247
	Small	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	18 =	\$22
Maritime	Large	( 2 + 0.000000 ) *		0.50% ) *	\$273.33 *	276 =	\$646
	Small	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	476 =	\$559
Construction	Large	( 2 + 0.000000 ) *		0.50% ) *	\$273.33 *	671 =	\$1,747
	Small	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	3,566 =	\$0
Governments	State	( 0 + 0.000000 ) *		0.50% ) *	\$273.33 *	12 =	\$0
	Local	( 6 + 0.000000 ) *		0.50% ) *	\$273.33 *	647 =	\$5,560

Table 27

Variables			LIMEMPAL	MEDEXAMADDERM		%ALABN	MEDCOSTADD		#PLANTS		Cost
SECTOR 4. Producers of Chromates											
ALL	Large	(	7 + 0.000000 ) *			0.50% ) *	\$273.33 *		2 =		\$18
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		0 =		\$0
SECTOR 5. Chromate Pigment Procedures											
ALL	Large	(	8 + 0.000000 ) *			0.50% ) *	\$273.33 *		2 =		\$20
	Small	(	1 + 0.000000 ) *			0.50% ) *	\$273.33 *		1 =		\$1
SECTOR 6. CCA Producers											
ALL	Large	(	2 + 0.000000 ) *			0.50% ) *	\$273.33 *		2 =		\$5
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		0 =		\$0
SECTOR 7. Chromium Catalyst Producers											
ALL	Large	(	11 + 0.000000 ) *			0.50% ) *	\$273.33 *		5 =		\$75
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		0 =		\$0
SECTOR 8. Paint and Coating Producers											
ALL	Large	(	1 + 0.003476 ) *			0.50% ) *	\$273.33 *		80 =		\$106
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		126 =		\$0
SECTOR 9. Printing Ink Producers											
ALL	Large	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		2 =		\$0
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		8 =		\$0
SECTOR 10. Plastic Colorant Producers and Users											
ALL	Large	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		81 =		\$0
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		40 =		\$0
SECTOR 11. Plating Mixture Producers											
ALL	Large	(	3 + 0.000000 ) *			0.50% ) *	\$273.33 *		6 =		\$22
	Small	(	1 + 0.000000 ) *			0.50% ) *	\$273.33 *		4 =		\$5
SECTOR 13. Chromium Metal Producers											
ALL	Large	(	7 + 0.000000 ) *			0.50% ) *	\$273.33 *		1 =		\$9
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		0 =		\$0
SECTOR 14. Iron and Steel Mills											
ALL	Large	(	27 + 0.005900 ) *			0.50% ) *	\$273.33 *		34 =		\$1,241
	Small	(	1 + 0.000281 ) *			0.50% ) *	\$273.33 *		11 =		\$19
Carbon Steel	Large	(	1 + 0.000140 ) *			0.50% ) *	\$273.33 *		102 =		\$89
	Small	(	1 + 0.000281 ) *			0.50% ) *	\$273.33 *		32 =		\$56
SECTOR 14B. Forging Industry											
ALL	Large	(	0 + 0.000562 ) *			0.50% ) *	\$273.33 *		33 =		\$0
	Small	(	0 + 0.000140 ) *			0.50% ) *	\$273.33 *		31 =		\$0
SECTOR 15. Iron and Steel Foundries											
ALL	Large	(	17 + 0.000000 ) *			0.50% ) *	\$273.33 *		163 =		\$3,838
	Small	(	4 + 0.000000 ) *			0.50% ) *	\$273.33 *		118 =		\$665
SECTOR 17. Chromium Dye Producers											
ALL	Large	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		3 =		\$0
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		1 =		\$0
SECTOR 18. Chromium Sulfate Producers											
ALL	Large	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		0 =		\$0
	Small	(	1 + 0.000000 ) *			0.50% ) *	\$273.33 *		5 =		\$6
SECTOR 19. Chemical Distributors											
ALL	Large	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		216 =		\$0
	Small	(	0 + 0.000000 ) *			0.50% ) *	\$273.33 *		1,627 =		\$0

Table 27

Variables			LIMEMPAL	MEDEXAMADDERM		%ALABN	MEDCOSTADD		#PLANTS		Cost
<b>SECTOR 20. Textile Dyeing</b>											
ALL	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	343 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	697 =					\$0
<b>SECTOR 21. Colored Glass Producers</b>											
ALL	Large	(	1 + 0.000000 ) *	0.50% ) *	\$273.33 *	6 =					\$9
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	20 =					\$0
Fiber, Flat, Container Glass	Large	(	9 + 0.000000 ) *	0.50% ) *	\$273.33 *	90 =					\$1,162
	Small	(	2 + 0.000000 ) *	0.50% ) *	\$273.33 *	5 =					\$15
<b>SECTOR 22. Printing</b>											
ALL	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	81 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	325 =					\$0
<b>SECTOR 24. Chromium Catalyst Users</b>											
ALL	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	179 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	0 =					\$0
Chromium Catalyst Companies	Large	(	5 + 0.000000 ) *	0.50% ) *	\$273.33 *	23 =					\$173
	Small	(	3 + 0.000000 ) *	0.50% ) *	\$273.33 *	4 =					\$20
<b>SECTOR 25. Refractory Brick Producers</b>											
ALL	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	5 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	0 =					\$0
<b>SECTOR 26. Woodworking</b>											
General Industry	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	148 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	79 =					\$0
Maritime	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	36 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	32 =					\$0
Construction	Large	(	1 + 0.000000 ) *	0.50% ) *	\$273.33 *	1,162 =					\$1,239
	Small	(	1 + 0.000000 ) *	0.50% ) *	\$273.33 *	4,650 =					\$4,959
Government	State	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	12 =					\$7
	Local	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	42 =					\$26
<b>SECTOR 27. Solid Waste Incineration</b>											
ALL	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	40 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	48 =					\$0
Government	State	(	1 + 0.724138 ) *	0.50% ) *	\$273.33 *	0 =					\$0
	Local	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	24 =					\$0
<b>SECTOR 30. Superalloy Producers and Users</b>											
ALL	Large	(	2 + 2.111590 ) *	0.50% ) *	\$273.33 *	19 =					\$110
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	0 =					\$0
<b>SECTOR 31. Construction</b>											
Industrial Rehabilitation & Maintenance	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	51 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	233 =					\$0
	State Gov't	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	15 =					\$0
	Local Gov't	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	88 =					\$0
Hazardous Waste Site Work	Large	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	40 =					\$0
	Small	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	170 =					\$0
	State Gov't	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	1 =					\$0
	Local Gov't	(	0 + 0.000000 ) *	0.50% ) *	\$273.33 *	239 =					\$0

Table 27

Variables		LIMEMPAL	MEDEXAMADDERM	%ALABN	MEDCOSTADD	#PLANTS	Cost
Refractory Brick Restoration & Maintenance	Large	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	44 =	\$64
	Small	( 1 + 0.000000 ) *		0.50% ) *	\$273.33 *	175 =	\$0
<b>Total</b>						<b>70,349</b>	<b>\$65,123</b>

Table 28

Medical Examination After Initial Assignment (§§1910.1026(k)(2)(i), (k)(3)(i), and (k)(3)(ii);1915.1026(i)(2)(i), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(i), (i)(3)(i), and (i)(3)(ii))

**Employee Time and Cost to Complete the Medical Examination After Initial Assignment**

This table calculates the burden hours and cost for those employees who are newly assigned to operations that involve exposure at or above the action level to receive medical examinations. It is estimated that the employee will be provided a comprehensive medical examination.

Hours = (LIMEMPAL + MEDEXAMADDERM)\*TURNOVER\*COMPFULLTIME \* (1-%BASEMED) \* #PLANTS  
 Cost =Hours \*NONSUPWAGE

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

\*COMPFULLTIME = Four hours for an employee to receive a comprehensive medical examination

\*NONSUPWAGE - Non-supervisory wage rate

(1-%BASEMED) = Percentage of plants that are not providing annual medical examinations.

\* #PLANTS = Number of Plants

Variables		LIMEMPAL	MEDEXAMADDERM	TURNOVER	COMPFULLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPWAGE	Cost	RESPONSES	24.17%
<b>Sector 1. Electroplating</b>												
ALL	Large	( 3 + 0.00000 ) * 23.30% * 4 * ( 1 - 100.00% ) *					1,848 =	0 *	\$26.61	\$0	0	
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 100.00% ) *					3,478 =	0 *	\$26.61	\$0	0	
<b>Sector 2. Welding</b>												
General Industry	Large	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 5.00% ) *					7,857 =	0 *	\$26.20	\$0	0	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					8,804 =	0 *	\$26.20	\$0	0	
Maritime	Large	( 14 + 2.89868 ) * 24.26% * 4 * ( 1 - 5.00% ) *					189 =	2,868 *	\$26.20	\$75,135	717	
	Small	( 1 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					107 =	101 *	\$26.20	\$2,635	25	
Construction	Large	( 26 + 2.89868 ) * 24.26% * 4 * ( 1 - 5.00% ) *					268 =	7,152 *	\$26.20	\$187,386	1,788	
	Small	( 3 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					2,145 =	6,034 *	\$26.20	\$158,084	1,508	
GOVERNMENT	Local	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 5.00% ) *					25 =	0 *	\$26.20	\$0	0	
	State	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					787 =	0 *	\$26.20	\$0	0	
<b>Sector 2. Mild Steel Welding</b>												
General Industry	Large	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 5.00% ) *					10,535 =	0 *	\$26.20	\$0	0	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					10,724 =	0 *	\$26.20	\$0	0	
Maritime	Large	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 5.00% ) *					409 =	0 *	\$26.20	\$0	0	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					232 =	0 *	\$26.20	\$0	0	
Construction	Large	( 10 + 0.00000 ) * 24.26% * 4 * ( 1 - 5.00% ) *					402 =	3,580 *	\$26.20	\$93,806	942	
	Small	( 1 + 0.00000 ) * 24.26% * 4 * ( 1 - 0.00% ) *					3,037 =	2,847 *	\$26.20	\$74,603	712	
<b>SECTOR 3. PAINTING</b>												
AEROSPACE	Large	( 45 + 0.00000 ) * 24.26% * 4 * ( 1 - 80.00% ) *					49 =	430 *	\$33.07	\$14,216	107	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 50.00% ) *					62 =	0 *	\$33.07	\$0	0	
Autobody	Large	( 1 + 0.00000 ) * 24.26% * 4 * ( 1 - 80.00% ) *					326 =	57 *	\$33.07	\$1,895	14	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 50.00% ) *					1,436 =	0 *	\$33.07	\$0	0	
Coil Coating	Large	( 2 + 0.00000 ) * 24.26% * 4 * ( 1 - 80.00% ) *					100 =	35 *	\$33.07	\$1,158	9	
	Small	( 1 + 0.00000 ) * 24.26% * 4 * ( 1 - 50.00% ) *					18 =	8 *	\$33.07	\$263	2	
Maritime	Large	( 2 + 0.00000 ) * 24.26% * 4 * ( 1 - 100.00% ) *					276 =	0 *	\$33.07	\$0	0	
	Small	( 1 + 0.00000 ) * 24.26% * 4 * ( 1 - 50.00% ) *					476 =	198 *	\$33.07	\$6,559	50	
Construction	Large	( 2 + 0.00000 ) * 24.26% * 4 * ( 1 - 100.00% ) *					671 =	0 *	\$33.07	\$0	0	
	Small	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 100.00% ) *					3,566 =	0 *	\$33.07	\$0	0	
Government	Local	( 0 + 0.00000 ) * 24.26% * 4 * ( 1 - 100.00% ) *					12 =	0 *	\$33.07	\$0	0	
	State	( 6 + 0.00000 ) * 24.26% * 4 * ( 1 - 100.00% ) *					647 =	0 *	\$33.07	\$0	0	
<b>SECTOR 4. Producers of Chromates</b>												
ALL	Large	( 7 + 0.00000 ) * 25.97% * 4 * ( 1 - 50.00% ) *					2 =	7 *	\$38.68	\$258	2	
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 0.00% ) *					0 =	0 *	\$38.68	\$0	0	



Table 28

Variables		LIME/PAL	MEDEX/AMADDERY	TURNOVER	COMP/PLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPEWAGE	Cost	RESPONSES
<b>SECTOR 5. Chromate Pigment Producers</b>											
ALL	Large	( 8 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 2 = 0 * \$37.70								\$0	0
	Small	( 1 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 1 = 0 * \$37.70								\$0	0
<b>SECTOR 6. CCA Producers</b>											
ALL	Large	( 2 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 2 = 0 * \$31.94								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 0.00% * 0 = 0 * \$31.94								\$0	0
<b>SECTOR 7. Chromium Catalyst Producers</b>											
ALL	Large	( 11 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 5 = 0 * \$38.68								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 0 = 0 * \$38.68								\$0	0
<b>SECTOR 8. Paint and Coating Producers</b>											
ALL	Large	( 1 + 0.00348 ) * 25.97% * 4 * ( 1 - 100.00% * 80 = 0 * \$28.81								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 126 = 0 * \$28.81								\$0	0
<b>SECTOR 9. Printing Ink Producers</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 80.00% * 2 = 0 * \$28.86								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 10.00% * 8 = 0 * \$28.86								\$0	0
<b>SECTOR 10. Plastic Colorant Producers and Users</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 81 = 0 * \$31.99								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 40 = 0 * \$31.99								\$0	0
<b>SECTOR 11. Plating Mixture Producers</b>											
ALL	Large	( 3 + 0.00000 ) * 25.97% * 4 * ( 1 - 50.00% * 6 = 8 * \$28.71								\$237	2
	Small	( 1 + 0.00000 ) * 25.97% * 4 * ( 1 - 30.00% * 4 = 3 * \$28.71								\$74	1
<b>SECTOR 13. Chromium Metal Producers</b>											
ALL	Large	( 7 + 0.00000 ) * 23.30% * 4 * ( 1 - 100.00% * 1 = 0 * \$38.80								\$0	0
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 0.00% * 0 = 0 * \$38.80								\$0	0
<b>SECTOR 14. Iron and Steel Mills</b>											
Alloy Stainless Steel	Large	( 27 + 0.00590 ) * 23.30% * 4 * ( 1 - 50.00% * 34 = 423 * \$38.80								\$16,414	106
	Small	( 1 + 0.00028 ) * 23.30% * 4 * ( 1 - 30.00% * 11 = 9 * \$38.80								\$351	2
Carbon Steel	Large	( 1 + 0.00014 ) * 23.30% * 4 * ( 1 - 50.00% * 102 = 30 * \$38.80								\$1,172	8
	Small	( 1 + 0.00028 ) * 23.30% * 4 * ( 1 - 30.00% * 32 = 27 * \$38.80								\$1,032	7
<b>14B. Alloy Stainless Steel Forging Industry</b>											
Reshaping	Large	( 0 + 0.00056 ) * 23.30% * 4 * ( 1 - 50.00% * 33 = 0 * \$38.80								\$0	0
	Small	( 0 + 0.00014 ) * 23.30% * 4 * ( 1 - 30.00% * 31 = 0 * \$38.80								\$0	0
<b>SECTOR 15. Iron and Steel Foundries</b>											
ALL	Large	( 17 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 163 = 523 * \$28.31								\$14,818	131
	Small	( 4 + 0.00000 ) * 23.30% * 4 * ( 1 - 10.00% * 118 = 408 * \$28.31								\$11,546	102
<b>SECTOR 17. Chromium Dye Producers</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 3 = 0 * \$37.70								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 1 = 0 * \$37.70								\$0	0
<b>SECTOR 18. Chromium Sulfate Producers</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 0 = 0 * \$41.50								\$0	0
	Small	( 1 + 0.00000 ) * 25.97% * 4 * ( 1 - 100.00% * 5 = 0 * \$41.50								\$0	0
<b>SECTOR 19. Chemical Distributors</b>											
ALL	Large	( 0 + 0.00000 ) * 23.73% * 4 * ( 1 - 0.00% * 216 = 0 * \$29.92								\$0	0
	Small	( 0 + 0.00000 ) * 23.73% * 4 * ( 1 - 0.00% * 1,627 = 0 * \$29.92								\$0	0
<b>SECTOR 20. Textile Dyeing</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 80.00% * 343 = 0 * \$19.97								\$0	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 10.00% * 697 = 0 * \$19.97								\$0	0
<b>SECTOR 21. Colored Glass Producers</b>											
ALL	Large	( 1 + 0.00000 ) * 25.97% * 4 * ( 1 - 80.00% * 6 = 1 * \$28.87								\$40	0
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 10.00% * 20 = 0 * \$28.87								\$0	0
Fiber, Flat and Container Glass	Large	( 9 + 0.00000 ) * 25.97% * 4 * ( 1 - 80.00% * 90 = 177 * \$28.87								\$5,101	44
	Small	( 2 + 0.00000 ) * 25.97% * 4 * ( 1 - 10.00% * 5 = 10 * \$28.87								\$297	3

Table 28

Variables		LIME/PAL	MEDEX/AMADDERY	TURNOVER	COMP/LLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPEWAGE	Cost	RESPONSES
<b>SECTOR 22. Printing</b>											
ALL	Large	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 80.00% * 81 = 0 * \$20.85 \$0 0									
	Small	( 0 + 0.00000 ) * 25.97% * 4 * ( 1 - 10.00% * 325 = 0 * \$20.85 \$0 0									
<b>SECTOR 24. Chromium Catalyst Users</b>											
Catalyst Users	Large	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 179 = 0 * \$32.51 \$0 0									
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 0 = 0 * \$32.51 \$0 0									
Chromium Catalyst Service Companies	Large	( 5 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 23 = 24 * \$32.51 \$766 6									
	Small	( 3 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 4 = 3 * \$32.51 \$88 1									
<b>SECTOR 25. Refractory Brick Producers</b>											
ALL	Large	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 80.00% * 5 = 0 * \$25.64 \$0 0									
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 10.00% * 0 = 0 * \$25.64 \$0 0									
<b>SECTOR 26. Woodworking</b>											
General Industry	Large	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 25.00% * 148 = 0 * \$32.11 \$0 0									
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 0.00% * 79 = 0 * \$32.11 \$0 0									
Maritime	Large	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 25.00% * 36 = 0 * \$32.11 \$0 0									
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 0.00% * 32 = 0 * \$32.11 \$0 0									
Construction	Large	( 1 + 0.00000 ) * 23.30% * 4 * ( 1 - 50.00% * 1,162 = 422 * \$32.11 \$13,563 106									
	Small	( 1 + 0.00000 ) * 23.30% * 4 * ( 1 - 50.00% * 4,650 = 1,691 * \$32.11 \$54,290 423									
Government	State	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 50.00% * 12 = 2 * \$32.11 \$79 1									
	Local	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 50.00% * 42 = 9 * \$32.11 \$284 2									
<b>SECTOR 27. Solid Waste Incineration</b>											
ALL	Large	( 0 + 0.00000 ) * 41.79% * 4 * ( 1 - 50.00% * 40 = 0 * \$27.23 \$0 0									
	Small	( 0 + 0.00000 ) * 41.79% * 4 * ( 1 - 30.00% * 48 = 0 * \$27.23 \$0 0									
Government	State	( 0 + 0.00000 ) * 41.79% * 4 * ( 1 - 50.00% * 0 = 0 * \$27.23 \$0 0									
	Local	( 0 + 0.00000 ) * 41.79% * 4 * ( 1 - 30.00% * 24 = 0 * \$27.23 \$0 0									
<b>SECTOR 30. Superalloy Producers and Users</b>											
ALL	Large	( 4 + 0.00000 ) * 23.30% * 4 * ( 1 - 50.00% * 19 = 37 * \$27.93 \$1,044 9									
	Small	( 0 + 0.00000 ) * 23.30% * 4 * ( 1 - 30.00% * 0 = 0 * \$27.93 \$0 0									
<b>SECTOR 31. Construction</b>											
Industrial Rehabilitation & Maintenance	Large	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 51 = 0 * \$32.13 \$0 0									
	Small	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 233 = 0 * \$32.13 \$0 0									
	State Gov't	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 15 = 0 * \$32.13 \$0 0									
Hazardous Waste Site Work	Local Gov't	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 88 = 0 * \$32.13 \$0 0									
	Large	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 40 = 0 * \$32.13 \$0 0									
	Small	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 170 = 0 * \$32.13 \$0 0									
Refractory Brick Restoration	State Gov't	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 1 = 0 * \$32.13 \$0 0									
	Local Gov't	( 0 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 239 = 0 * \$32.13 \$0 0									
	Large	( 1 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 44 = 57 * \$32.13 \$1,816 14									
Small	( 1 + 0.00000 ) * 60.38% * 4 * ( 1 - 50.00% * 175 = 223 * \$32.13 \$7,181 56										
<b>TOTAL</b>							<b>70,349</b>	<b>27,405</b>		<b>\$746,192</b>	<b>6,898</b>

Table 29

Medical Examination After Initial Assignment (§§1910.1026(k)(2)(i), (k)(3)(i), and (k)(3)(ii);1915.1026(i)(2)(i), (i)(3)(i), and (i)(3)(ii); and 1926.1126(i)(2)(i), (i)(3)(i), and (i)(3)(iii))

**Contract Cost for a PLHCP to Conduct the Medical Examination After Initial Assignment**

This table calculates the cost for a contractor PLHCP to conduct medical examinations to employees newly assigned to operations that involve exposure at or above the action level.

Hours = (LIMEMPAL + MEDEXAMADDERM)\*TURNOVER\*COMPFULLCOST \*(1-%BASEMED)\*#PLANTS

Cost =Hours \*NONSUPWAGE

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

\*COMPFULLCOST = Cost for an employer to administer a comprehensive medical examination

1-%BASEMED = Percentage of establishments that do not have annual medical surveillance for their employees in the baseline.

\* #PLANTS = Number of Plants

Variables				LIMEMPAL	MEDEXAMADDERM	TURNOVER (Old)	TURNOVER	COMPFULLCOST	1-%BASEMED	#PLANTS	Cost
<b>Sector 1. Electroplating</b>											
ALL	Large	(	3	+	0.00000	) * 26.16%	23.30%	* \$513.87	*	( 1 - 100.00%	) * 1,848 = \$0
	Small	(	0	+	0.00000	) * 26.16%	23.30%	* \$513.87	*	1 - 100.00%	* 3,478 = \$0
<b>Sector 2. Welding</b>											
General Industry	Large	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 7,857 = \$0
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 8,804 = \$0
Maritime	Large	(	14	+	2.89868	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 189 = \$368,415
	Small	(	1	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 107 = \$12,919
Construction	Large	(	26	+	2.89868	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 268 = \$918,827
	Small	(	3	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 2,145 = \$775,145
GOVERNMENT	Local	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 25 = \$0
	State	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 787 = \$0
<b>Sector 2. Mild Steel Welding</b>											
General Industry	Large	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 10,535 = \$0
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 10,724 = \$0
Maritime	Large	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 409 = \$0
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 232 = \$0
Construction	Large	(	10	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 5.00%	* 402 = \$459,966
	Small	(	1	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 0.00%	* 3,037 = \$365,808
<b>SECTOR 3. PAINTING</b>											
AEROSPACE	Large	(	45	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 80.00%	* 49 = \$55,230
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 50.00%	* 62 = \$0
Autobody	Large	(	1	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 80.00%	* 326 = \$7,364
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 50.00%	* 1,436 = \$0
Coil Coating	Large	(	2	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 80.00%	* 100 = \$4,500
	Small	(	1	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 50.00%	* 18 = \$1,023
Maritime	Large	(	2	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 100.00%	* 276 = \$0
	Small	(	1	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 50.00%	* 476 = \$25,484
Construction	Large	(	2	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 100.00%	* 671 = \$0
	Small	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 100.00%	* 3,566 = \$0
Government	Local	(	0	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 100.00%	* 12 = \$0
	State	(	6	+	0.00000	) * 27.24%	24.26%	* \$513.87	*	1 - 100.00%	* 647 = \$0

Table 29

Variables				LIMEMPAL	MEDEKAMADDERN		TURNOVER (Old)	TURNOVER	COMPFULLCOST		1-%BASEMED		#PLANTS	Cost
<b>SECTOR 4. Producers of Chromates</b>														
ALL	Large	(	7	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	50.00%	* 2 = \$857
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	0.00%	* 0 = \$0
<b>SECTOR 5. Chromate Pigment Procedures</b>														
ALL	Large	(	8	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 2 = \$0
	Small	(	1	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 1 = \$0
<b>SECTOR 6. CCA Producers</b>														
ALL	Large	(	2	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 2 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	0.00%	* 0 = \$0
<b>SECTOR 7. Chromium Catalyst Producers</b>														
ALL	Large	(	11	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 5 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 0 = \$0
<b>SECTOR 8. Paint and Coating Producers</b>														
ALL	Large	(	1	+	0.00348	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 80 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 126 = \$0
<b>SECTOR 9. Printing Ink Producers</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	80.00%	* 2 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	10.00%	* 8 = \$0
<b>SECTOR 10. Plastic Colorant Producers and Users</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 81 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 40 = \$0
<b>SECTOR 11. Plating Mixture Producers</b>														
ALL	Large	(	3	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	50.00%	* 6 = \$1,063
	Small	(	1	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	30.00%	* 4 = \$331
<b>SECTOR 13. Chromium Metal Producers</b>														
ALL	Large	(	7	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	100.00%	* 1 = \$0
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	0.00%	* 0 = \$0
<b>SECTOR 14. Iron and Steel Mills</b>														
Alloy Stainless Steel	Large	(	27	+	0.00590	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 34 = \$54,343
	Small	(	1	+	0.00028	)	* 26.16%	23.30%	* \$513.87	*	1	-	30.00%	* 11 = \$1,162
Carbon Steel	Large	(	1	+	0.00014	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 102 = \$3,882
	Small	(	1	+	0.00028	)	* 26.16%	23.30%	* \$513.87	*	1	-	30.00%	* 32 = \$3,418
<b>14B. Alloy Stainless Steel Forging Industry</b>														
Reshaping	Large	(	0	+	0.00056	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 33 = \$1
	Small	(	0	+	0.00014	)	* 26.16%	23.30%	* \$513.87	*	1	-	30.00%	* 31 = \$0
<b>SECTOR 15. Iron and Steel Foundries</b>														
ALL	Large	(	17	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 163 = \$67,239
	Small	(	4	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	10.00%	* 118 = \$52,394
<b>SECTOR 17. Chromium Dye Producers</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 3 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 1 = \$0
<b>SECTOR 18. Chromium Sulfate Producers</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 0 = \$0
	Small	(	1	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	100.00%	* 5 = \$0
<b>SECTOR 19. Chemical Distributors</b>														
ALL	Large	(	0	+	0.00000	)	* 26.64%	23.73%	* \$513.87	*	1	-	0.00%	* 216 = \$0
	Small	(	0	+	0.00000	)	* 26.64%	23.73%	* \$513.87	*	1	-	0.00%	* 1,627 = \$0

Table 29

Variables				LIMEMPAL	MEDEXAMADDERN		TURNOVER (Old)	TURNOVER	COMPFULLCOST		1-%BASEMED		#PLANTS	Cost
<b>SECTOR 20. Textile Dyeing</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	80.00%	* 343 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	10.00%	* 697 = \$0
<b>SECTOR 21. Colored Glass Producers</b>														
ALL	Large	(	1	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	80.00%	* 6 = \$176
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	10.00%	* 20 = \$0
Fiber, Flat and Container Glass	Large	(	9	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	80.00%	* 90 = \$22,698
	Small	(	2	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	10.00%	* 5 = \$1,320
<b>SECTOR 22. Printing</b>														
ALL	Large	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	80.00%	* 81 = \$0
	Small	(	0	+	0.00000	)	* 29.16%	25.97%	* \$513.87	*	1	-	10.00%	* 325 = \$0
<b>SECTOR 24. Chromium Catalyst Users</b>														
Catalyst Users	Large	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 179 = \$0
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 0 = \$0
Chromium Catalyst Service Companies	Large	(	5	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 23 = \$3,028
	Small	(	3	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 4 = \$346
<b>SECTOR 25. Refractory Brick Producers</b>														
ALL	Large	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	80.00%	* 5 = \$0
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	10.00%	* 0 = \$0
<b>SECTOR 26. Woodworking</b>														
General Industry	Large	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	25.00%	* 148 = \$0
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	0.00%	* 79 = \$0
Maritime	Large	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	25.00%	* 36 = \$0
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	0.00%	* 32 = \$0
Construction	Large	(	1	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 1,162 = \$54,264
	Small	(	1	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 4,650 = \$217,204
Government	State	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 12 = \$314
	Local	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 42 = \$1,136
<b>SECTOR 27. Solid Waste Incineration</b>														
ALL	Large	(	0	+	0.00000	)	* 46.92%	41.79%	* \$513.87	*	1	-	50.00%	* 40 = \$0
	Small	(	0	+	0.00000	)	* 46.92%	41.79%	* \$513.87	*	1	-	30.00%	* 48 = \$0
Government	State	(	0	+	0.00000	)	* 46.92%	41.79%	* \$513.87	*	1	-	50.00%	* 0 = \$0
	Local	(	0	+	0.00000	)	* 46.92%	41.79%	* \$513.87	*	1	-	30.00%	* 24 = \$0
<b>SECTOR 30. Superalloy Producers and Users</b>														
ALL	Large	(	4	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	50.00%	* 19 = \$4,804
	Small	(	0	+	0.00000	)	* 26.16%	23.30%	* \$513.87	*	1	-	30.00%	* 0 = \$0
<b>SECTOR 31. Construction</b>														
Industrial Rehabilitation & Maintenance	Large	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 51 = \$0
	Small	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 233 = \$0
	State Gov't	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 15 = \$0
	Local Gov't	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 88 = \$0
Hazardous Waste Site Work	Large	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 40 = \$0
	Small	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 170 = \$0
	State Gov't	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 1 = \$0
Refractory Brick Restoration	Local Gov't	(	0	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 239 = \$0
	Large	(	1	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 44 = \$7,259
	Small	(	1	+	0.00000	)	* 67.80%	60.38%	* \$513.87	*	1	-	50.00%	* 175 = \$28,709
<b>TOTAL</b>													<b>70,349</b>	<b>\$3,520,628</b>

Table 30

Medical Examination at the Termination of Employment (§§ 1910.1026(k)(2)(vi) and (k)(3)(i)-(k)(3)(iii); 1915.1026(i)(2)(vi) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(2)(vi) and (i)(3)(i)-(i)(3)(ii))

Employee Time and Cost to Complete the Medical Examination at the Termination of Employment

Employees receive a comprehensive medical examination at the termination of employment. For employers who are providing annual medical testing (%BASEMED) the additional employee time will be 3 hours (COMPARTTIME). For employers who are not providing annual medical testing (1-%BASEMED) the time for a full comprehensive examination is 4 hours (COMPFULLTIME). The employee turnover rate is divided by two, because medical examinations must be provided at the termination of employment "... unless the last examination ... was less than six months prior to the date of determination. It is estimated that half of the employee turnover occurs at the beginning of the year and the other half occurs at the end of the year. Therefore, based on this estimation at any time during the year, it has been greater than six months since their last medical examination for half of the employees that are leaving, and therefore, these employees require a medical examination.

Burden hours = (LIMEMPAL + MEDEXAMADDERM) \* (TURNOVER/2) \* ((COMPARTTIME \* %BASEMED) + (COMPFULLTIME \* (1-%BASEMED))) \* #PLANTS

Cost = Burden hours x NONSUPEWAGE

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after the implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.

COMPARTTIME = The time an employee takes for a comprehensive exam when employed by employers already providing annual medical testing in the baseline.

%BASEMED = Percentage of employers who are providing annual medical examinations

COMPFULLTIME = The time an employee takes for a comprehensive exam when employed by employers who were not providing any annual medical testing in the baseline.

\* 1-%BASEMED = Percentage of plants that are not providing annual medical examinations.

\* #PLANTS = Number of Plants

NONSUPEWAGE = Non-supervisory Wage Rate

Variables		LIMEMPAL	MEDEXAMADDERM	TURNOVER (Old)	TURNOVER	Divide 2	COMPARTTIME	%BASEMED	COMPFULLTIME	1-%BASEMED	#PLANTS	Hours	NONSUPEWAGE	Cost	Responses	24.17%
<b>SECTOR 1. Electroplating</b>																
All	Large	( 3 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 1,848 =									1,848 =	1,763	\$26.61	\$46,911.10	588	
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 3,478 =									3,478 =	0	\$26.61	\$0.00	0	
<b>SECTOR 2. Welding</b>																
General Industry	Large	( 0 + 0.000000 ) * ( 27.24% 24.26% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 7,857 =									7,857 =	0	\$26.20	\$0.00	0	
	Small	( 0 + 0.000000 ) * ( 27.24% 24.26% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 8,804 =									8,804 =	0	\$26.20	\$0.00	0	
Maritime	Large	( 14 + 2.898677 ) * ( 27.24% 24.26% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 189 =									189 =	1,434	\$26.20	\$37,575.28	377	
	Small	( 1 + 0.000000 ) * ( 27.24% 24.26% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 107 =									107 =	50	\$26.20	\$1,317.36	13	
Construction	Large	( 26 + 2.898677 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 268 =									268 =	8,902	\$26.20	\$233,235.36	2,342	
	Small	( 3 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 2,145 =									2,145 =	7,509	\$26.20	\$196,734.23	1,877	
Government	State	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 25 =									25 =	0	\$26.20	\$0.00	0	
	Local	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 787 =									787 =	0	\$26.20	\$0.00	0	
<b>SECTOR 2. Mild Steel Welding</b>																
General Industry	Large	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 10,535 =									10,535 =	0	\$26.20	\$0.00	0	
	Small	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 10,724 =									10,724 =	0	\$26.20	\$0.00	0	
Maritime	Large	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 409 =									409 =	0	\$26.20	\$0.00	0	
	Small	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 232 =									232 =	0	\$26.20	\$0.00	0	
Construction	Large	( 10 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 5.00% ) + ( 4 * ( 1 - 5.00% ) ) ) * 402 =									402 =	4,456	\$26.20	\$116,752.26	1,173	
	Small	( 1 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 3,037 =									3,037 =	3,544	\$26.20	\$92,843.20	886	
<b>SECTOR 3. PAINTING</b>																
<b>General Industry</b>																
AEROSPACE	Large	( 45 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 49 =									49 =	232	\$33.07	\$7,682.29	274	
	Small	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 62 =									62 =	0	\$33.07	\$0.00	0	
Auto Body	Large	( 1 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 326 =									326 =	29	\$33.07	\$973.99	36	
	Small	( 0 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 1,436 =									1,436 =	0	\$33.07	\$0.00	0	
Coil Coating	Large	( 2 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 100 =									100 =	18	\$33.07	\$607.55	22	
	Small	( 1 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 18 =									18 =	4	\$33.07	\$139.59	2	
Maritime	Large	( 2 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 276 =									276 =	1	\$33.07	\$21.03	58	
	Small	( 1 + 0.000000 ) * ( 27.74% 24.71% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 476 =									476 =	101	\$33.07	\$3,345.14	51	
Construction	Large	( 2 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 671 =									671 =	2	\$33.07	\$57.08	386	
	Small	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 3,566 =									3,566 =	0	\$33.07	\$0.00	0	
Government	State	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 12 =									12 =	0	\$33.07	\$0.00	0	
	Local	( 6 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 647 =									647 =	6	\$33.07	\$188.42	1,228	
<b>SECTOR 4. Producers of Chromates</b>																
ALL	Large	( 7 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 2 =									2 =	5	\$38.68	\$179.43	2	
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 0 =									0 =	0	\$38.62	\$0.00	0	
<b>SECTOR 5. Chromate Pigment Procedures</b>																
ALL	Large	( 8 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 2 =									2 =	3	\$37.70	\$118.92	2	
	Small	( 1 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 1 =									1 =	0	\$37.70	\$13.21	0	
<b>SECTOR 6. CCA Producers</b>																
ALL	Large	( 2 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 2 =									2 =	1	\$31.94	\$19.60	0	
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 0 =									0 =	0	\$31.94	\$0.00	0	
<b>SECTOR 7. Chromium Catalyst Producers</b>																
ALL	Large	( 11 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 5 =									5 =	4	\$38.68	\$173.13	7	
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 0 =									0 =	0	\$38.68	\$0.00	0	
<b>SECTOR 8. Paint and Coating Producers</b>																
ALL	Large	( 1 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 80 =									80 =	0	\$28.81	\$10.75	10	
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 126 =									126 =	0	\$28.81	\$0.00	0	
<b>SECTOR 9. Printing Ink Producers</b>																
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 2 =									2 =	0	\$28.86	\$0.00	0	
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 8 =									8 =	0	\$28.86	\$0.00	0	

Table 30

SECTOR 10. Plastic Colorant Producers and Users									
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 81 =	0	\$31.99	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 40 =	0	\$31.99	\$0.00	0			
SECTOR 11. Plating Mixture Producers									
ALL	Large	( 3 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 6 =	5	\$28.71	\$134.51	2			
	Small	( 1 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 4 =	1	\$28.71	\$40.09	0			
SECTOR 13. Chromium Metal Producers									
ALL	Large	( 7 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 1 =	0	\$38.80	\$0.00	1			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 0 =	0	\$38.80	\$0.00	0			
SECTOR 14. Iron and Steel Mills									
General Industry	Large	( 27 + 0.005900 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 34 =	216	\$38.80	\$8,388.87	106			
	Small	( 1 + 0.000281 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 11 =	5	\$38.80	\$180.69	2			
Carbon Steel	Large	( 1 + 0.000140 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 102 =	15	\$38.80	\$590.54	8			
	Small	( 1 + 0.000281 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 32 =	13	\$38.80	\$521.36	5			
SECTOR 14B. Forging Industry									
Reshaping	Large	( 0 + 0.000562 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 33 =	0	\$38.80	\$0.17	0			
	Small	( 0 + 0.000140 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 31 =	0	\$38.80	\$0.06	0			
SECTOR 15. Iron and Steel Foundries									
ALL	Large	( 17 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 163 =	267	\$28.31	\$7,545.41	327			
	Small	( 4 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 118 =	204	\$28.31	\$5,777.17	57			
SECTOR 17. Chromium Dye Producers									
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 3 =	0	\$37.70	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 1 =	0	\$37.70	\$0.00	0			
SECTOR 18. Chromium Sulfate Producers									
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 0 =	0	\$41.50	\$0.00	0			
	Small	( 1 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 100.00% ) + ( 4 * ( 1 - 100.00% ) ) ) * 5 =	0	\$41.50	\$15.48	1			
SECTOR 19. Chemical Distributors									
ALL	Large	( 0 + 0.000000 ) * ( 26.64% 23.73% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 216 =	0	\$29.92	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 26.64% 23.73% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 1,627 =	0	\$29.92	\$0.00	0			
SECTOR 20. Textile Dyeing									
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 343 =	0	\$19.97	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 697 =	0	\$19.97	\$0.00	0			
SECTOR 21. Colored Glass Producers									
General Industry	Large	( 1 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 6 =	1	\$28.87	\$29.20	1			
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 20 =	0	\$28.87	\$0.00	0			
Fiber, Flat and Container Glass	Large	( 9 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 90 =	91	\$28.87	\$2,635.23	110			
	Small	( 2 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 5 =	5	\$28.87	\$150.63	1			
SECTOR 22. Printing									
ALL	Large	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 81 =	0	\$20.85	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 29.16% 25.97% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 325 =	0	\$20.85	\$0.00	0			
SECTOR 24. Chromium Catalyst Users									
General Industry	Large	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 179 =	0	\$32.51	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 0 =	0	\$32.51	\$0.00	0			
Chromium Service Companies	Large	( 5 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 23 =	13	\$32.51	\$432.93	15			
	Small	( 3 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 4 =	5	\$32.51	\$164.45	2			
SECTOR 25. Refractory Brick Producers									
ALL	Large	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 80.00% ) + ( 4 * ( 1 - 80.00% ) ) ) * 5 =	0	\$25.64	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 10.00% ) + ( 4 * ( 1 - 10.00% ) ) ) * 0 =	0	\$25.64	\$0.00	0			
SECTOR 26. Woodworking									
General Industry	Large	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 25.00% ) + ( 4 * ( 1 - 25.00% ) ) ) * 148 =	0	\$32.11	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 79 =	0	\$32.11	\$0.00	0			
Maritime	Large	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 25.00% ) + ( 4 * ( 1 - 25.00% ) ) ) * 36 =	0	\$32.11	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 0.00% ) + ( 4 * ( 1 - 0.00% ) ) ) * 32 =	0	\$32.11	\$0.00	0			
Construction	Large	( 1 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 1,162 =	548	\$32.11	\$17,587.66	274			
	Small	( 1 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 4,650 =	2,191	\$32.11	\$70,363.81	1,095			
Government	State	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 12 =	3	\$32.11	\$108.33	2			
	Local	( 0 + 0.000000 ) * ( 67.80% 60.38% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 42 =	12	\$32.11	\$374.57	6			
SECTOR 27. Solid Waste Incineration									
ALL	Large	( 0 + 0.000000 ) * ( 46.92% 41.79% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 40 =	0	\$27.23	\$0.00	0			
	Small	( 0 + 0.000000 ) * ( 46.92% 41.79% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 48 =	0	\$27.23	\$0.00	0			
Government	State	( 1 + 0.000000 ) * ( 46.92% 41.79% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 0 =	0	\$27.23	\$6.18	0			
	Local	( 0 + 0.000000 ) * ( 46.92% 41.79% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 24 =	0	\$27.23	\$0.00	0			
SECTOR 30. Superalloy Producers and Users									
ALL	Large	( 2 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 50.00% ) + ( 4 * ( 1 - 50.00% ) ) ) * 19 =	10	\$27.93	\$271.40	5			
	Small	( 0 + 0.000000 ) * ( 26.16% 23.30% / 2 ) * ( ( 3 * 30.00% ) + ( 4 * ( 1 - 30.00% ) ) ) * 0 =	0	\$27.93	\$0.00	0			

Table 30

SECTOR 31. Construction																															
Industrial Rehabilitation & Maintenance	Large	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	51 =	0	\$32.13	\$0.00	0						
	Small	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	233 =	0	\$32.13	\$0.00	0						
	State Gov't	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	15 =	0	\$32.13	\$0.00	0						
	Local Gov't	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	88 =	0	\$32.13	\$0.00	0						
Hazardous Waste Site Work	Large	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	40 =	0	\$32.13	\$0.00	0						
	Small	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	170 =	0	\$32.13	\$0.00	0						
	State Gov't	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	1 =	0	\$32.13	\$0.00	0						
Refractory Brick Restoration	Local Gov't	(	0 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	239 =	0	\$32.13	\$0.00	0						
	Large	(	1 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	44 =	29	\$32.13	\$923.30	14						
	Small	(	1 +	0.000000 ) *	(	67.80%	60.38%	/	2 ) *	(	(	3 *	50.00%	) +	(	4 *	(	1 -	50.00%	) ) *	175 =	112	\$32.13	\$3,605.97	56						
																										Total		70,349	31,813	\$858,746.95	11,422



Table 31

**Medical Examination at the Termination of Employment (§§ 1910.1026(k)(2)(vi) and (k)(3)(i)-(k)(3)(iii); 1915.1026(i)(2)(vi) and (i)(3)(i)-(i)(3)(iii); and 1926.1126(i)(2)(vi) and (i)(3)(i)-(i)(3)(iii))**

**Contract Cost for a PLHCP to Conduct the Medical Examination at the Termination of Employment**

Employees receive a comprehensive medical examination at the termination of employment. For employers who are providing annual medical testing (%BASEMED) the additional cost will be \$227.00 (COMPARTCOST). For employers who are not providing annual medical testing (1-%BASEMED) the cost for a full comprehensive examination will be \$454.00 (COMPFULLCOST). The employee turnover rate is divided by two, because medical examinations must be provided at the termination of employment "... unless the last examination ... was less than six months prior to the date of determination. It is estimated that half of the employee turnover occurs at the beginning of the year and the other half occurs at the end of the year. Therefore, based on this estimation at any time during the year, it has been greater than six months since their last medical examination for half of the employees that are leaving, and therefore, these employees require a medical examination.

$$COST = (LIMEMPAL + MEDEXAMADDERM) * (TURNOVER / 2) * ((COMPARTCOST * \%BASEMED) + (COMPFULLCOST * (1 - \%BASEMED))) * \#PLANTS$$

\* LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after the implementation of engineering controls.

\* MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls

TURNOVER/2 = Represents the frequency of termination exams.

COMPARTCOST= The cost of a comprehensive exam for those employers already providing annual medical testing in the baseline

%BASEMED = Percentage of employers who are providing annual medical examinations

COMPFULLCOST = The cost of a comprehensive exam for those employers who were not providing any annual medical testing in the baseline

\*1-%BASEMED = Percentage of plants that are not providing annual medical examinations.

\* #PLANTS = Number of Plants

Variables		LIMEMPAL	MEDEXAMADDERM	TURNOVER (OIR)	TURNOVER	Divide by 2	COMPARTCOST	%BASEMED	COMPFULLCOST	1-%BASEMED	#PLANTS	COST
<b>Sector 1. Electroplating</b>												
All	Large	( 3 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	1,848 =	\$	150,700.97		
	Small	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	3,478 =	\$	-		
<b>Sector 2. Welding</b>												
General Industry	Large	( 0 + 0.000000 )	* ( 27.24%	24.26%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	7,857 =	\$	-		
	Small	( 0 + 0.000000 )	* ( 27.24%	24.26%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	8,804 =	\$	-		
Maritime	Large	( 14 + 2.898677 )	* ( 27.24%	24.26%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	189 =	\$	183,883.80		
	Small	( 1 + 0.000000 )	* ( 27.24%	24.26%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	107 =	\$	6,447.29		
Construction	Large	( 26 + 2.898677 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	268 =	\$	1,141,417.27		
	Small	( 3 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	2,145 =	\$	962,833.83		
Government	State	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	25 =	\$	-		
	Local	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	787 =	\$	-		
<b>Sector 2. Mild Steel Welding</b>												
General Industry	Large	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	10,535 =	\$	-		
	Small	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	10,724 =	\$	-		
Maritime	Large	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	409 =	\$	-		
	Small	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	232 =	\$	-		
Construction	Large	( 10 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 5.00% ) + ( \$513 * ( 1 - 5.00% ) ) )	*	402 =	\$	571,376.64		
	Small	( 1 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	3,037 =	\$	454,382.39		
<b>SECTOR 3. PAINTING</b>												
<b>General Industry</b>												
AEROSPACE	Large	( 45 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 80.00% ) + ( \$513 * ( 1 - 80.00% ) ) )	*	49 =	\$	29,216.32		
	Small	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 50.00% ) + ( \$513 * ( 1 - 50.00% ) ) )	*	62 =	\$	-		
Auto Body	Large	( 1 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 80.00% ) + ( \$513 * ( 1 - 80.00% ) ) )	*	326 =	\$	3,765.43		
	Small	( 0 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 50.00% ) + ( \$513 * ( 1 - 50.00% ) ) )	*	1,436 =	\$	-		
Coil Coating	Large	( 2 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 80.00% ) + ( \$513 * ( 1 - 80.00% ) ) )	*	100 =	\$	2,332.98		
	Small	( 1 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 50.00% ) + ( \$513 * ( 1 - 50.00% ) ) )	*	18 =	\$	534.14		
Maritime	Large	( 2 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	276 =	\$	54.38		
	Small	( 1 + 0.000000 )	* ( 27.74%	24.71%	/ 2 )	* ( ( \$256 * 50.00% ) + ( \$513 * ( 1 - 50.00% ) ) )	*	476 =	\$	12,964.92		
Construction	Large	( 2 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	671 =	\$	147.56		
	Small	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	3,566 =	\$	-		
Government	State	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	12 =	\$	-		
	Local	( 6 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	647 =	\$	487.10		
<b>SECTOR 4. Producers of Chromates</b>												
ALL	Large	( 7 + 0.000000 )	* ( 29.16%	25.97%	/ 2 )	* ( ( \$256 * 50.00% ) + ( \$513 * ( 1 - 50.00% ) ) )	*	2 =	\$	539.04		
	Small	( 0 + 0.000000 )	* ( 29.16%	25.97%	/ 2 )	* ( ( \$256 * 0.00% ) + ( \$513 * ( 1 - 0.00% ) ) )	*	0 =	\$	-		
<b>SECTOR 5. Chromate Pigment Procedures</b>												
ALL	Large	( 8 + 0.000000 )	* ( 29.16%	25.97%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	2 =	\$	269.66		
	Small	( 1 + 0.000000 )	* ( 29.16%	25.97%	/ 2 )	* ( ( \$256 * 100.00% ) + ( \$513 * ( 1 - 100.00% ) ) )	*	1 =	\$	29.96		

Table 31

Variables			LIME/PAL	MEDEXAM/DERM	TURNOVER (OH)	TURNOVER	Divide 2	COMP/PCOST	%BASEMED	COMP/FULLCOST	1-%BASEMED	#PLANTS	COST					
SECTOR 6. CCA Producers																		
ALL	Large	(	2 +	0.000000	*)	(	29.16%	25.97%	2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	2 =	\$	52.47
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	2)	*)	(	(\$256 * 0.00%)	)+(	\$513 * (1 - 0.00%))	)*	0 =	\$	-
SECTOR 7. Chromium Catalyst Producers																		
ALL	Large	(	11 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	5 =	\$	382.63
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	0 =	\$	-
SECTOR 8. Paint and Coating Producers																		
ALL	Large	(	1 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	80 =	\$	31.89
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	126 =	\$	-
SECTOR 9. Printing Ink Producers																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	2 =	\$	-
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	8 =	\$	-
SECTOR 10. Plastic Colorant Producers and Users																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	81 =	\$	-
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	40 =	\$	-
SECTOR 11. Plating Mixture Producers																		
ALL	Large	(	3 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 50.00%)	)+(	\$513 * (1 - 50.00%))	)*	6 =	\$	577.27
	Small	(	1 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 30.00%)	)+(	\$513 * (1 - 30.00%))	)*	4 =	\$	174.38
SECTOR 13. Chromium Metal Producers																		
ALL	Large	(	7 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	1 =	\$	-
	Small	(	0 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 0.00%)	)+(	\$513 * (1 - 0.00%))	)*	0 =	\$	-
SECTOR 14. Iron and Steel Mills																		
General Industry	Large	(	27 +	0.005900	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 50.00%)	)+(	\$513 * (1 - 50.00%))	)*	34 =	\$	27,520.55
	Small	(	1 +	0.000281	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 30.00%)	)+(	\$513 * (1 - 30.00%))	)*	11 =	\$	591.37
Carbon Steel	Large	(	1 +	0.000140	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 50.00%)	)+(	\$513 * (1 - 50.00%))	)*	102 =	\$	1,946.67
	Small	(	1 +	0.000281	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 30.00%)	)+(	\$513 * (1 - 30.00%))	)*	32 =	\$	1,717.10
SECTOR 14B. Forging Industry																		
Reshaping	Large	(	0 +	0.000562	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 50.00%)	)+(	\$513 * (1 - 50.00%))	)*	33 =	\$	0.57
	Small	(	0 +	0.000140	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 30.00%)	)+(	\$513 * (1 - 30.00%))	)*	31 =	\$	0.19
SECTOR 15. Iron and Steel Foundries																		
ALL	Large	(	17 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	163 =	\$	33,968.26
	Small	(	4 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	118 =	\$	26,159.66
SECTOR 17. Chromium Dye Producers																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	3 =	\$	-
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	1 =	\$	-
SECTOR 18. Chromium Sulfate Producers																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	0 =	\$	-
	Small	(	1 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 100.00%)	)+(	\$513 * (1 - 100.00%))	)*	5 =	\$	31.89
SECTOR 19. Chemical Distributors																		
ALL	Large	(	0 +	0.000000	*)	(	26.64%	23.73%	/ 2)	*)	(	(\$256 * 0.00%)	)+(	\$513 * (1 - 0.00%))	)*	216 =	\$	-
	Small	(	0 +	0.000000	*)	(	26.64%	23.73%	/ 2)	*)	(	(\$256 * 0.00%)	)+(	\$513 * (1 - 0.00%))	)*	1,627 =	\$	-
SECTOR 20. Textile Dyeing																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	343 =	\$	-
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	697 =	\$	-
SECTOR 21. Colored Glass Producers																		
General Industry	Large	(	1 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	6 =	\$	115.73
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	20 =	\$	-
Fiber, Flat and Container Glass	Large	(	9 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	90 =	\$	11,578.74
	Small	(	2 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	5 =	\$	665.55
SECTOR 22. Printing																		
ALL	Large	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	81 =	\$	-
	Small	(	0 +	0.000000	*)	(	29.16%	25.97%	/ 2)	*)	(	(\$256 * 10.00%)	)+(	\$513 * (1 - 10.00%))	)*	325 =	\$	-
SECTOR 24. Chromium Catalyst Users																		
General Industry	Large	(	0 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	179 =	\$	-
	Small	(	0 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	0 =	\$	-
Chromium Service Companies	Large	(	5 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 80.00%)	)+(	\$513 * (1 - 80.00%))	)*	23 =	\$	1,642.11
	Small	(	3 +	0.000000	*)	(	26.16%	23.30%	/ 2)	*)	(	(\$256 * 30.00%)	)+(	\$513 * (1 - 30.00%))	)*	4 =	\$	633.90

Table 31

Variables		LIME/PAL	MEDEXAM/DERM	TURNOVER (OH)	TURNOVER	Divide 2	COMP/PCOST	%BASEMED	COMP/FULLCOST	1-%BASEMED	#PLANTS	COST
<b>SECTOR 25. Refractory Brick Producers</b>												
ALL	Large	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 80.00% )	+ ( \$513 * ( 1 - 80.00% ) )	*	5 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 10.00% )	+ ( \$513 * ( 1 - 10.00% ) )	*	0 =	\$	-	
<b>SECTOR 26. Woodworking</b>												
General Industry	Large	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 25.00% )	+ ( \$513 * ( 1 - 25.00% ) )	*	148 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 0.00% )	+ ( \$513 * ( 1 - 0.00% ) )	*	79 =	\$	-	
Maritime	Large	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 25.00% )	+ ( \$513 * ( 1 - 25.00% ) )	*	36 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 0.00% )	+ ( \$513 * ( 1 - 0.00% ) )	*	32 =	\$	-	
Construction	Large	( 1 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	1,162 =	\$	70,216.63	
	Small	( 1 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	4,650 =	\$	280,964.45	
Government	State	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	12 =	\$	423.90	
	Local	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	42 =	\$	1,487.06	
<b>SECTOR 27. Solid Waste Incineration</b>												
ALL	Large	( 0 + 0.000000 )	* ( 46.92%	41.79%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	40 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 46.92%	41.79%	/ 2 )	* ( ( \$256 * 30.00% )	+ ( \$513 * ( 1 - 30.00% ) )	*	48 =	\$	-	
Government	State	( 1 + 0.000000 )	* ( 46.92%	41.79%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	0 =	\$	19.40	
	Local	( 0 + 0.000000 )	* ( 46.92%	41.79%	/ 2 )	* ( ( \$256 * 30.00% )	+ ( \$513 * ( 1 - 30.00% ) )	*	24 =	\$	-	
<b>SECTOR 30. Superalloy Producers and Users</b>												
ALL	Large	( 2 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	19 =	\$	1,230.38	
	Small	( 0 + 0.000000 )	* ( 26.16%	23.30%	/ 2 )	* ( ( \$256 * 30.00% )	+ ( \$513 * ( 1 - 30.00% ) )	*	0 =	\$	-	
<b>SECTOR 31. Construction</b>												
Industrial Rehabilitation & Maintenance	Large	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	51 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	233 =	\$	-	
	State Gov't	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	15 =	\$	-	
Hazardous Waste Site Work	Local Gov't	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	88 =	\$	-	
	Large	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	40 =	\$	-	
	Small	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	170 =	\$	-	
Refractory Brick Restoration	State Gov't	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	1 =	\$	-	
	Local Gov't	( 0 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	239 =	\$	-	
	Large	( 1 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	44 =	\$	3,663.67	
Small	( 1 + 0.000000 )	* ( 67.80%	60.38%	/ 2 )	* ( ( \$256 * 50.00% )	+ ( \$513 * ( 1 - 50.00% ) )	*	175 =	\$	14,367.94		
<b>Total</b>										<b>70,349</b>	<b>\$</b>	<b>4,001,548</b>

Table 32

**Information Provided to the PLHCP (§§ 1910.1026(k)(4), 1915.1026(i)(4), and 1926.1126(i)(4)); Clerical Time and Cost to Provide Information to the PLHCP**

This table estimates the burden hours and costs for employers to update required information in worker records and provide the information to the PLHCP. OSHA assumes that it will take 5 minutes for a clerical worker to update the worker record and provide this information. The Agency reduced the time for this requirement from 1 hour to 5 minutes because, after the first year of medical surveillance, employers will not need to establish files.

Hours = POTEEMP \* MEDRECORD \* PLANTS  
 COST = BURDEN HOURS \* CLWAGE

- \* POTEEMP = Total number of potentially exposed employees at or above the AL and workers with "signs and symptoms" before the implementation of engineering controls.
- \* MEDRECORD = Clerical time per employee, in hours, to maintain detailed medical records and provide to the PLHCP (.08 hour)
- \* CLWAGE = Clerical wage. \$/hr.
- \* #PLANTS = Number of plants represented by the model

22.44%

		POTEEMP	MEDRECORD	#PLANTS	Hours	CLWAGE	Cost	Responses
<b>Sector 1. Electroplating</b>								
All	Large	5 *	0.08 *	1,848 =	807 *	\$18.94 =	\$15,287.70	10088.999
	Small	1 *	0.08 *	3,478 =	253 *	\$18.94 =	\$4,793.71	3163.5697
<b>Sector 2. Welding</b>								
General Industry	Large	2 *	0.08 *	7,857 =	1,215 *	\$18.65 =	\$22,651.04	15183.943
	Small	0 *	0.08 *	8,804 =	0 *	\$18.65 =	\$0.00	0
Maritime	Large	18 *	0.08 *	189 =	278 *	\$18.65 =	\$5,186.45	3476.6972
	Small	1 *	0.08 *	107 =	8 *	\$18.65 =	\$154.59	103.62873
Construction	Large	49 *	0.08 *	268 =	1,055 *	\$18.65 =	\$19,674.82	13188.856
	Small	5 *	0.08 *	2,145 =	829 *	\$18.65 =	\$15,459.08	10362.873
Government	State	2 *	0.08 *	25 =	4 *	\$18.65 =	\$72.42	48.546792
	Local	0 *	0.08 *	787 =	0 *	\$18.65 =	\$0.00	0
<b>Sector 2. Mild Steel Welding</b>								
General Industry	Large	1 *	0.08 *	10,535 =	814 *	\$18.65 =	\$15,184.72	10178.955
	Small	0 *	0.08 *	10,724 =	0 *	\$18.65 =	\$0.00	0
Maritime	Large	0 *	0.08 *	409 =	0 *	\$18.65 =	\$0.00	0
	Small	1 *	0.08 *	232 =	18 *	\$18.65 =	\$334.25	224.06212
Construction	Large	18 *	0.08 *	402 =	590 *	\$18.65 =	\$11,007.98	7379.1124
	Small	2 *	0.08 *	3,037 =	469 *	\$18.65 =	\$8,754.58	5868.5603
<b>SECTOR 3. PAINTING</b>								
<b>GENERAL INDUSTRY</b>								
Aerospace	Large	46 *	0.08 *	49 =	181 *	\$23.45 =	\$4,238.05	2259.4044
	Small	1 *	0.08 *	62 =	4 *	\$23.45 =	\$104.64	55.787762
Auto Body	Large	12 *	0.08 *	326 =	307 *	\$18.65 =	\$5,727.69	3839.5107
	Small	1 *	0.08 *	1,436 =	104 *	\$18.65 =	\$1,939.83	1300.3471
Coil Coating	Large	2 *	0.08 *	100 =	14 *	\$18.65 =	\$269.25	180.48982
	Small	1 *	0.08 *	18 =	1 *	\$18.65 =	\$24.48	16.408165
Maritime	Large	3 *	0.08 *	276 =	57 *	\$23.45 =	\$1,330.62	709.38316
	Small	1 *	0.08 *	476 =	33 *	\$23.45 =	\$766.87	408.83453
Construction	Large	2 *	0.08 *	671 =	102 *	\$23.45 =	\$2,398.25	1278.5604
	Small	1 *	0.08 *	3,566 =	181 *	\$23.45 =	\$4,249.92	2265.7317
Government	State	6 *	0.08 *	12 =	6 *	\$18.65 =	\$109.65	73.502268
	Local	0 *	0.08 *	647 =	23 *	\$18.65 =	\$433.47	290.57627
<b>SECTOR 4. Producers of Chromates</b>								
All	Large	7 *	0.08 *	2 =	1 *	\$27.52 =	\$28.26	12.83591

Table 32

		POTEXEMP	MEDRECORD	#PLANTS	Hours	CLWAGE	Cost	Responses
	Small	0 *	0.08 *	0 =	0 *	\$27.52 =	\$0.00	0
SECTOR 5. Chromate Pigment Procedures								
All	Large	22 *	0.08 *	2 =	3 *	\$27.52 =	\$85.57	38.860146
	Small	3 *	0.08 *	1 =	0 *	\$27.52 =	\$5.35	2.4287591
SECTOR 6. CCA Producers								
All	Large	2 *	0.08 *	2 =	0 *	\$22.71 =	\$10.15	5.5867769
	Small	0 *	0.08 *	0 =	0 *	\$22.71 =	\$0.00	0
SECTOR 7. Chromium Catalyst Producers								
All	Large	25 *	0.08 *	5 =	10 *	\$27.52 =	\$262.45	119.19059
	Small	0 *	0.08 *	0 =	0 *	\$27.52 =	\$0.00	0
SECTOR 8. Paint and Coating Producers								
All	Large	5 *	0.08 *	80 =	31 *	\$20.51 =	\$631.78	385.0773
	Small	2 *	0.08 *	126 =	19 *	\$20.51 =	\$397.12	242.04859
SECTOR 9. Printing Ink Producers								
All	Large	0 *	0.08 *	2 =	0 *	\$20.53 =	\$0.00	0
	Small	0 *	0.08 *	8 =	0 *	\$20.53 =	\$0.00	0
SECTOR 10. Plastic Colorant Producers and Users								
All	Large	0 *	0.08 *	81 =	0 *	\$22.75 =	\$0.00	0
	Small	0 *	0.08 *	40 =	0 *	\$22.75 =	\$0.00	0
SECTOR 11. Plating Mixture Producers								
All	Large	3 *	0.08 *	6 =	1 *	\$20.42 =	\$26.02	15.924557
	Small	2 *	0.08 *	4 =	1 *	\$20.42 =	\$11.56	7.0775811
SECTOR 13. Chromium Metal Producers								
All	Large	12 *	0.08 *	1	1 *	\$27.61	\$23.68	10.721887
	Small	0 *	0.08 *	0	0 *	\$27.61	\$0.00	0
SECTOR 14. Iron and Steel Mills								
All	Large	36 *	0.08 *	34 =	99 *	\$27.61 =	\$2,720.63	1231.7418
	Small	1 *	0.08 *	11 =	1 *	\$27.61 =	\$30.62	13.862702
Carbon Steel	Large	9 *	0.08 *	102 =	73 *	\$27.61 =	\$2,004.68	907.59924
	Small	1 *	0.08 *	32 =	3 *	\$27.61 =	\$90.06	40.772652
SECTOR 14B. Forging Industry								
All	Large	3 *	0.08 *	33 =	7 *	\$27.61 =	\$187.32	84.807117
	Small	0 *	0.08 *	31 =	0 *	\$27.61 =	\$0.00	0
SECTOR 15. Iron and Steel Foundries								
All	Large	25 *	0.08 *	163 =	321 *	\$20.14 =	\$6,463.70	4011.5459
	Small	5 *	0.08 *	118 =	47 *	\$20.14 =	\$940.17	583.49758
SECTOR 17. Chromium Dye Producers								
All	Large	0 *	0.08 *	3 =	0 *	\$26.83 =	\$0.00	0
	Small	0 *	0.08 *	1 =	0 *	\$26.83 =	\$0.00	0
SECTOR 18. Chromium Sulfate Producers								
All	Large	0 *	0.08 *	0 =	0 *	\$29.53 =	\$0.00	0
	Small	3 *	0.08 *	5 =	1 *	\$29.53 =	\$32.49	13.752761
SECTOR 19. Chemical Distributors								
All	Large	0 *	0.08 *	216 =	0 *	\$21.29 =	\$0.00	0
	Small	0 *	0.08 *	1,627 =	0 *	\$21.29 =	\$0.00	0
SECTOR 20. Textile Dyeing								
All	Large	0 *	0.08 *	343 =	0 *	\$14.20 =	\$0.00	0

Table 32

		POTEXEMP	MEDRECORD	#PLANTS	Hours	CLWAGE	Cost	Responses
	Small	0 *	0.08 *	697 =	0 *	\$14.20 =	\$0.00	0
<b>SECTOR 21. Colored Glass Producers</b>								
All	Large	1 *	0.08 *	6 =	1 *	\$14.83 =	\$7.82	6.5922485
	Small	0 *	0.08 *	20 =	0 *	\$14.83 =	\$0.00	0
Fiber, Flat, and Container Glass	Large	12 *	0.08 *	90 =	83 *	\$14.83 =	\$1,232.88	1039.3778
	Small	2 *	0.08 *	5 =	1 *	\$14.83 =	\$13.03	10.987081
<b>SECTOR 22. Printing</b>								
All	Large	0 *	0.08 *	81 =	0 *	\$14.83 =	\$0.00	0
	Small	0 *	0.08 *	325 =	0 *	\$14.83 =	\$0.00	0
<b>SECTOR 24. Chromium Catalyst Users</b>								
All	Large	1 *	0.08 *	179 =	16 *	\$23.13 =	\$363.19	196.29008
	Small	0 *	0.08 *	0 =	0 *	\$22.88 =	\$0.00	0
Chromium Catalyst Companies	Large	11 *	0.08 *	23 =	20 *	\$22.88 =	\$462.96	252.88906
	Small	5 *	0.08 *	4 =	2 *	\$22.88 =	\$44.09	24.084673
<b>SECTOR 25. Refractory Brick Producers</b>								
All	Large	0 *	0.08 *	5 =	0 *	\$18.26 =	\$0.00	0
	Small	0 *	0.08 *	0 =	0 *	\$18.26 =	\$0.00	0
<b>SECTOR 26. Woodworking</b>								
General Industry	Large	1 *	0.08 *	148 =	9 *	\$22.83 =	\$213.93	117.11075
	Small	0 *	0.08 *	79 =	0 *	\$22.83 =	\$0.00	0
Maritime	Large	0 *	0.08 *	36 =	0 *	\$22.83 =	\$0.00	0
	Small	0 *	0.08 *	32 =	0 *	\$22.83 =	\$0.00	0
Construction	Large	2 *	0.08 *	1,162 =	218 *	\$22.83 =	\$4,967.83	2719.4711
	Small	1 *	0.08 *	4,650 =	290 *	\$22.83 =	\$6,628.22	3628.3966
Government	State	0 *	0.08 *	12 =	0 *	\$22.83 =	\$9.59	5.250162
	Local	0 *	0.08 *	42 =	2 *	\$22.83 =	\$34.67	18.981355
<b>SECTOR 27. Solid Waste Incineration</b>								
All	Large	0 *	0.08 *	40 =	0 *	\$19.50 =	\$0.00	0
	Small	0 *	0.08 *	48 =	0 *	\$19.50 =	\$0.00	0
Government	State	0 *	0.08 *	0 =	0 *	\$22.83 =	\$0.00	0
	Local	0 *	0.08 *	24 =	0 *	\$22.83 =	\$0.00	0
<b>SECTOR 30. Superalloy Producers and Users</b>								
All	Large	2 *	0.08 *	19 =	3 *	\$19.87 =	\$63.79	40.129309
	Small	0 *	0.08 *	0 =	0 *	\$19.87 =	\$0.00	0
<b>SECTOR 31. Construction</b>								
Industrial Rehabilitation & Maintenance	Large	0 *	0.08 *	51 =	0 *	\$22.87 =	\$0.00	0
	Small	0 *	0.08 *	233 =	0 *	\$22.87 =	\$0.00	0
	State Gov't	0 *	0.08 *	15 =	0 *	\$22.87 =	\$0.00	0
	Local Gov't	0 *	0.08 *	88 =	0 *	\$22.87 =	\$0.00	0
Hazardous Waste Site Work	Large	0 *	0.08 *	40 =	0 *	\$22.87 =	\$0.00	0
	Small	0 *	0.08 *	170 =	0 *	\$22.87 =	\$0.00	0
	State Gov't	0 *	0.08 *	1 =	0 *	\$22.87 =	\$0.00	0
Refractory Brick Restoration	Local Gov't	0 *	0.08 *	239 =	0 *	\$22.87 =	\$0.00	0
	Large	11 *	0.08 *	44 =	37 *	\$22.87 =	\$856.12	467.90168
	Small	1 *	0.08 *	175 =	15 *	\$22.87 =	\$338.57	185.0407

Table 32

	POTEXEMP	MEDRECORD	#PLANTS	Hours	CLWAGE	Cost	Responses
<b>Total</b>			70,349	8,671		169,342	108,386

Table 33

**Clerical Time and Cost to Provide the PLHCP's Written Medical Opinion to Employee and to Establish and Maintain Record for Air Monitoring Data and Medical Surveillance**

The Standard requires that employers maintain exposure and medical surveillance records. As part of the medical record, employers must maintain a copy of the PLHCP's written opinion. OSHA assumes that the 5 minutes for recordkeeping includes the time it takes for employers to provide a copy of the PLHCP's written opinion to the employee.

HOURS = RECTIME \* EMPEXP \* #PLANTS

COST = Hours x CLWAGE

RECTIME = Time, 0.08 hour per record for exposed workers

EMPEXP = Exposed employees to chromium or employees exposed dermally

#PLANTS = Number of Plants

CLWAGE = Clerical wage Rate

22.44%

		RECTIME	EMPEXP	#PLANTS	HOURS	CLWAGE	COST	Responses
<b>Sector 1. Electroplating</b>								
ALL	Large	0.08 *	14 *	1,848 =	2,018	\$18.94	\$ 38,219	25,222
	Small	0.08 *	3 *	3,478 =	759	\$18.94	\$ 14,381	9,491
<b>Sector 2. Welding</b>								
ALL	Large	0.08 *	3 *	8,339 =	1,934	\$18.65	\$ 36,061	24,174
	Small	0.08 *	3 *	11,844 =	2,747	\$18.65	\$ 51,216	34,332
<b>Sector 2B. Mild Steel Welding</b>								
	Large	0.08 *	4 *	11,345	3,508	\$18.65	\$ 65,413	43,849
	Small	0.08 *	1 *	13,993	1,082	\$18.65	\$ 20,169	13,520
<b>SECTOR 3. PAINTING</b>								
ALL	Large	0.08 *	41 *	1,433 =	4,687	\$23.45	\$ 109,887	58,583
	Small	0.08 *	1 *	6,205 =	664	\$23.45	\$ 15,562	8,296
<b>SECTOR 4. Producers of Chromates</b>								
ALL	Large	0.08 *	72 *	2 =	11	\$27.52	\$ 303	138
	Small	0.08 *	0 *	0 =	0	\$27.52	\$ -	0
<b>SECTOR 5. Chromate Pigment Procedures</b>								
ALL	Large	0.08 *	22 *	2 =	3	\$27.52	\$ 86	39
	Small	0.08 *	3 *	1 =	0	\$27.52	\$ 5	2
<b>SECTOR 6. CCA Producers</b>								
ALL	Large	0.08 *	7 *	2 =	1	\$22.71	\$ 30	17
	Small	0.08 *	0 *	0 =	0	\$22.71	\$ 0	0
<b>SECTOR 7. Chromium Catalyst Producers</b>								
ALL	Large	0.08 *	60 *	5 =	23	\$27.52	\$ 636	289



Table 33

		RECTIME	EMPEXP	#PLANTS	HOURS	CLWAGE	COST	Responses
	Small	0.08 *	0 *	0 =	0	\$27.52	0	0
<b>SECTOR 8. Paint and Coating Producers</b>								
ALL	Large	0.08 *	17 *	80 =	111	\$20.51	\$ 2,274	1,386
	Small	0.08 *	8 *	126 =	77	\$20.51	\$ 1,588	968
<b>SECTOR 9. Printing Ink Producers</b>								
ALL	Large	0.08 *	17 *	2 =	3	\$20.53	\$ 68	42
	Small	0.08 *	17 *	8 =	11	\$20.53	\$ 228	139
<b>SECTOR 10. Plastic Colorant Producers and Users</b>								
ALL	Large	0.08 *	5 *	81 =	35	\$22.75	\$ 788	433
	Small	0.08 *	1 *	40 =	3	\$22.75	\$ 64	35
<b>SECTOR 11. Plating Mixture Producers</b>								
ALL	Large	0.08 *	16 *	6 =	7	\$20.42	\$ 147	90
	Small	0.08 *	4 *	4 =	1	\$20.42	\$ 23	14
<b>SECTOR 13. Chromium Metal Producers</b>								
ALL	Large	0.08 *	43 *	1 =	3	\$27.61	\$ 86	39
	Small	0.08 *	0 *	0 =	0	\$27.61	\$ -	0
<b>SECTOR 14. Iron and Steel Mills</b>								
ALL	Large	0.08 *	42 *	1,929 =	6,504	\$27.61	\$ 179,562	81,295
	Small	0.08 *	3 *	22 =	4	\$27.61	\$ 122	55
<b>SECTOR 15. Iron and Steel Foundries</b>								
ALL	Large	0.08 *	105 *	163 =	1,369	\$20.14	\$ 27,578	17,116
	Small	0.08 *	105 *	118 =	996	\$20.14	\$ 20,057	12,448
<b>SECTOR 17. Chromium Dye Producers</b>								
ALL	Large	0.08 *	29 *	3 =	6	\$26.83	\$ 167	78
	Small	0.08 *	6 *	1 =	0	\$26.83	\$ 12	6
<b>SECTOR 18. Chromium Sulfate Producers</b>								
ALL	Large	0.08 *	0 *	0 =	0	\$29.53	\$ -	0
	Small	0.08 *	2 *	5 =	1	\$29.53	\$ 22	9
<b>SECTOR 19. Chemical Distributors</b>								
ALL	Large	0.08 *	0 *	216 =	0	\$21.29	\$ -	
	Small	0.08 *	0 *	1,627 =	0	\$21.29	\$ -	0
<b>SECTOR 20. Textile Dyeing</b>								
ALL	Large	0.08 *	58 *	343 =	1,590	\$14.20	\$ 22,583	19,876
	Small	0.08 *	2 *	697 =	102	\$14.20	\$ 1,455	1,281

Table 33

		RECTIME	EMPEXP	#PLANTS	HOURS	CLWAGE	COST	Responses
<b>SECTOR 21. Colored Glass Producers</b>								
ALL	Large	0.08 *	5 *	96 =	35	\$14.83	\$ 517	436
	Small	0.08 *	1 *	25 =	2	\$14.83	\$ 27	23
<b>SECTOR 22. Printing</b>								
ALL	Large	0.08 *	38 *	81 =	249	\$14.83	\$ 3,691	3,111
	Small	0.08 *	2 *	0 =	0	\$14.83	\$ -	0
<b>SECTOR 24. Chromium Catalyst Users</b>								
ALL	Large	0.08 *	33 *	179 =	471	\$23.13	\$ 10,896	5,889
	Small	0.08 *	16 *	0 =	0	\$23.13	\$ -	
Catalyst Service Companies	Large	0.08 *	1 *	23	2	\$23.13	\$ 47	25
	Small	0.08 *	0 *	0	0	\$23.13	\$ -	0
<b>SECTOR 25. Refractory Brick Producers</b>								
ALL	Large	0.08 *	11 *	5 =	5	\$18.26	\$ 85	58
	Small	0.08 *	0 *	0 =	0	\$18.26	\$ -	
<b>SECTOR 26. Woodworking</b>								
ALL	Large	0.08 *	0 *	1,358 =	0	\$22.83	\$ -	0
	Small	0.08 *	0 *	4,803 =	0	\$22.83	\$ -	0
<b>SECTOR 27. Solid Waste Incarnation</b>								
ALL	Large	0.08 *	0 *	40 =	0	\$19.38	\$ -	0
	Small	0.08 *	1 *	72 =	5	\$19.38	\$ 97	63
<b>SECTOR 30. Superalloy Producers and Users</b>								
ALL	Large	0.08 *	41 *	19 =	63	\$19.87	\$ 1,244	783
	Small	0.08 *	0 *	0 =	0	\$19.87	\$ -	
<b>SECTOR 31. Construction</b>								
Industrial Rehabilitation & Maintenance	Large	0.08 *	25	51	103	\$22.87	\$ 2,359	1,289
	Small	0.08 *	1	233	20	\$22.87	\$ 451	246
	State Gov't	0.08 *	1	15	1	\$22.87	\$ 29	16
	Local Gov't	0.08	1	88	7	\$22.87	\$ 169	93
Hazardous Waste Site Work	Large	0.08 *	15	40	48	\$22.87	\$ 1,088	594
	Small	0.08 *	3	170	43	\$22.87	\$ 985	538
	State Gov't	0.08 *	2	1	0	\$22.87	\$ 3	2
Refractory Brick Restoration & Maintenance	Local Gov't	0.08 *	3	239	60	\$22.87	\$ 1,383	756
	Large	0.08 *	15	44	52	\$22.87	\$ 1,199	655
	Small	0.08 *	1	175	15	\$22.87	\$ 339	185

Table 33

		RECTIME	EMPEXP	#PLANTS	HOURS	CLWAGE	COST	Responses
TOTAL				71,728	29,442		\$ 633,401	368,023