

Table 1 - Initial Exposure Monitoring (Contractor Cost) has been removed since employers have completed this action.

Table 2
Initial Exposure Monitoring - Cost for Exposure Monitoring Samples

Initial Exposure Monitoring (§ 1910.1026(d)(2)(i) and (ii))

Cost = (SAMPYCOST * JOBCAT * SHIFTS * #SAMPs * #INIT * %INITADD) * #PLANTS

Variables

- * SAMPYCOST = Variable cost per sample = \$60
- * 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%

		SAMPYCOST	JOBCAT	SHIFTS	#SAMPs	#INIT	%INITADD	#PLANTS	COSTS
Sector 1: Electroplating									
Hard Chrome	Large	(\$60 * 7 * 2 * 3 * 2 * 25%) *						51	= \$64,071
	Small	(\$60 * 7 * 1 * 3 * 2 * 25%) *						96	= \$60,291
Job Shop Chrome Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 25%) *						25	= \$4,410
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						46	= \$4,149
Captive Shop Chrome Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 25%) *						26	= \$4,743
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						50	= \$4,464
Job Shop Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 25%) *						25	= \$4,410
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						46	= \$4,149
Captive Shop Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 25%) *						26	= \$4,743
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						50	= \$4,464
Operator	Large	(\$60 * 1 * 2 * 3 * 2 * 25%) *						51	= \$9,153
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						96	= \$8,613
Sector 2: Welding									
GENERAL INDUSTRY									
SMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						183	= \$32,931
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						205	= \$18,450
GMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						134	= \$24,156
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						150	= \$13,532
TIG	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						41	= \$7,317
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						46	= \$4,100
SAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						16	= \$2,925
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						18	= \$1,638
Plasma Cutting	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						4	= \$729
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						5	= \$410
Plasma Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						4	= \$729
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						5	= \$410
Resistance Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						24	= \$4,392
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						27	= \$2,462

Table 2
Initial Exposure Monitoring - Cost for Exposure Monitoring Samples

		SAMP COST	JOB CAT	SHIFTS	# SAMPS	# INIT	% INITADD	# PLANTS	COSTS
MARITIME									
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	1	=	\$243			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	1	=	\$90			
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	1	=	\$338			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	1	=	\$126			
TIG	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$81			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$27			
FCAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	6	=	\$1,620			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	3	=	\$612			
Plasma Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$54			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$18			
Plasma Welding	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$27			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$9			
Oxy-fuel Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$54			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$18			
Air Carbon Arc Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$27			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$9			
Electric Torch Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$0			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$0			
Thermal Spray Tungsten Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	0	=	\$0			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$0			
SAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%)	*	1	=	\$216			
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%)	*	0	=	\$81			
CONSTRUCTION									
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 25%)	*	10	=	\$936			
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	83	=	\$2,498			
Plasma Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 25%)	*	0	=	\$14			
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	1	=	\$33			
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 25%)	*	2	=	\$189			
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	17	=	\$500			
Brazing	State	(\$60 * 1 * 3 * 1 * 2 * 25%)	*	1	=	\$95			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	8	=	\$251			
Metallizing	State	(\$60 * 1 * 3 * 1 * 2 * 25%)	*	0	=	\$18			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	2	=	\$50			
GOVERNMENT									
SMAW	State	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	1	=	\$30			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	31	=	\$917			
Plasma Cutting	State	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	0	=	\$0			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	0	=	\$12			
GMAW	State	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	0	=	\$6			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	6	=	\$183			
Brazing	State	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	0	=	\$3			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	3	=	\$92			
Metallizing	State	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	0	=	\$2			
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%)	*	1	=	\$18			

Table 2
Initial Exposure Monitoring - Cost for Exposure Monitoring Samples

		SAMP COST	JOB CAT	SHIFTS	# SAMPS	# INIT	% INIT ADD	# PLANTS	COSTS
Sector 2: Mild Steel Welding									
GENERAL INDUSTRY									
SMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						245	= \$44,154
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						250	= \$22,478
GMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						180	= \$32,382
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						183	= \$16,484
TIG	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						55	= \$9,810
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						56	= \$4,995
SAW	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						22	= \$3,924
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						22	= \$1,998
Plasma Cutting	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						5	= \$981
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						6	= \$500
Plasma Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						5	= \$981
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						6	= \$500
Resistance Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 25%) *						33	= \$5,886
	Small	(\$60 * 1 * 1 * 3 * 2 * 25%) *						33	= \$2,997
MARITIME									
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						2	= \$513
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						1	= \$198
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						3	= \$743
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						2	= \$279
TIG	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						1	= \$176
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$63
FCAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						13	= \$3,483
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						7	= \$1,314
Plasma Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$108
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$45
Plasma Welding	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$41
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$18
Oxy-fuel Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$108
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$45
Air Carbon Arc Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$41
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$18
Electric Torch Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$14
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$0
Thermal Spray Tungsten Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						0	= \$14
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						0	= \$0
SAW	Large	(\$60 * 1 * 3 * 1 * 2 * 75%) *						2	= \$459
	Small	(\$60 * 1 * 2 * 1 * 2 * 75%) *						1	= \$171
CONSTRUCTION									
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 25%) *						16	= \$1,404
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%) *						118	= \$3,536
Plasma Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 25%) *						0	= \$18
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%) *						2	= \$47
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 25%) *						3	= \$279
	Small	(\$60 * 1 * 1 * 1 * 2 * 25%) *						24	= \$707
Brazing	State	(\$60 * 1 * 3 * 1 * 2 * 25%) *						2	= \$140
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%) *						12	= \$354
Metallizing	State	(\$60 * 1 * 3 * 1 * 2 * 25%) *						0	= \$27
	Local	(\$60 * 1 * 1 * 1 * 2 * 25%) *						2	= \$71

Table 2
Initial Exposure Monitoring - Cost for Exposure Monitoring Samples

		SAMP	COST	JOB/CAT	SHIFTS	# SAMP	# INT	% IN/UT/ADD	# PLANTS	COSTS								
SECTOR 3: PAINTING - General Industry																		
AEROSPACE	Large	(	\$60	*	2	*	3	*	3	*	2	*	25%	)	*	3	=	\$1,458
	Small	(	\$60	*	2	*	1	*	3	*	2	*	25%	)	*	3	=	\$612
General Industry (Autobody)	Large	(	\$60	*	2	*	1	*	1	*	2	*	25%	)	*	18	=	\$1,080
	Small	(	\$60	*	2	*	1	*	1	*	2	*	25%	)	*	79	=	\$4,755
General Industry (Coil Coating)	Large	(	\$60	*	2	*	2	*	3	*	2	*	25%	)	*	6	=	\$1,980
	Small	(	\$60	*	2	*	1	*	3	*	2	*	25%	)	*	1	=	\$180
Maritime	Large	(	\$60	*	3	*	3	*	1	*	2	*	25%	)	*	16	=	\$4,334
	Small	(	\$60	*	3	*	1	*	1	*	2	*	25%	)	*	28	=	\$2,498
Construction	Large	(	\$60	*	3	*	3	*	1	*	2	*	25%	)	*	53	=	\$14,256
	Small	(	\$60	*	3	*	1	*	1	*	2	*	25%	)	*	281	=	\$25,263
Government	State	(	\$60	*	2	*	3	*	1	*	2	*	25%	)	*	1	=	\$234
	Local	(	\$60	*	2	*	1	*	1	*	2	*	25%	)	*	72	=	\$4,317
SECTOR 4: Producers of Chromates																		
ALL	Large	(	\$60	*	4	*	3	*	3	*	2	*	100%	)	*	0	=	\$432
	Small	(	\$60	*	0	*	1	*	3	*	2	*	0%	)	*	0	=	\$0
SECTOR 5: Chromate Pigment Procedures																		
ALL	Large	(	\$60	*	9	*	2	*	3	*	2	*	25%	)	*	0	=	\$162
	Small	(	\$60	*	1	*	1	*	3	*	2	*	25%	)	*	0	=	\$5
SECTOR 6: CCA Producers																		
ALL	Large	(	\$60	*	4	*	3	*	3	*	2	*	25%	)	*	0	=	\$162
	Small	(	\$60	*	0	*	3	*	0	*	2	*	0%	)	*	0	=	\$0
SECTOR 7: Chromium Catalyst Producers																		
ALL	Large	(	\$60	*	14	*	3	*	3	*	2	*	25%	)	*	0	=	\$945
	Small	(	\$60	*	0	*	1	*	3	*	2	*	0%	)	*	0	=	\$0
SECTOR 8: Paint and Coating Producers																		
ALL	Large	(	\$60	*	4	*	2	*	3	*	2	*	25%	)	*	4	=	\$3,024
	Small	(	\$60	*	4	*	2	*	3	*	2	*	25%	)	*	7	=	\$4,752
SECTOR 9: Printing Ink Producers																		
ALL	Large	(	\$60	*	5	*	1	*	9	*	2	*	100%	)	*	0	=	\$810
	Small	(	\$60	*	3	*	1	*	5	*	2	*	100%	)	*	1	=	\$900
SECTOR 10: Plastic Colorant Producers and Users																		
ALL	Large	(	\$60	*	4	*	3	*	3	*	2	*	25%	)	*	5	=	\$4,968
	Small	(	\$60	*	1	*	1	*	3	*	2	*	25%	)	*	2	=	\$203
SECTOR 11: Plating Mixture Producers																		
ALL	Large	(	\$60	*	3	*	1	*	3	*	2	*	75%	)	*	0	=	\$243
	Small	(	\$60	*	3	*	1	*	3	*	2	*	75%	)	*	0	=	\$162
SECTOR 13: Chromium Metal Producers																		
ALL	Large	(	\$60	*	16	*	3	*	3	*	2	*	100%	)	*	0	=	\$864
	Small	(	\$60	*	0	*	1	*	1	*	2	*	0%	)	*	0	=	\$0
SECTOR 14: Iron and Steel Mills																		
Alloy and Stainless Steel	Large	(	\$60	*	8	*	3	*	3	*	2	*	75%	)	*	3	=	\$17,172
	Small	(	\$60	*	4	*	1	*	3	*	2	*	75%	)	*	1	=	\$918
Carbon Steel	Large	(	\$60	*	8	*	3	*	3	*	2	*	75%	)	*	8	=	\$51,516
	Small	(	\$60	*	4	*	1	*	1	*	2	*	75%	)	*	3	=	\$900
14.B Forging Industry																		
Reshaping	Large	(	\$60	*	5	*	1	*	3	*	2	*	75%	)	*	3	=	\$3,510
	Small	(	\$60	*	2	*	1	*	3	*	2	*	75%	)	*	2	=	\$1,323
SECTOR 15: Iron and Steel Foundries																		
ALL	Large	(	\$60	*	9	*	3	*	5	*	2	*	25%	)	*	10	=	\$40,095
	Small	(	\$60	*	5	*	1	*	5	*	2	*	25%	)	*	7	=	\$5,400
SECTOR 17: Chromium Dye Producers																		
ALL	Large	(	\$60	*	7	*	1	*	21	*	2	*	25%	)	*	0	=	\$662
	Small	(	\$60	*	5	*	1	*	7	*	2	*	25%	)	*	0	=	\$53

Table 2
Initial Exposure Monitoring - Cost for Exposure Monitoring Samples

		SAMP	COST	JOB	CAT	SHIFTS	#	SAMPS	#	INIT	%	INIT	ADD	#	PLANTS	COSTS			
SECTOR 18: Chromium Sulfate Producers																			
ALL	Large	(	\$60	*	0	*	1	*	3	*	2	*	0%	)	* 0	=	\$0
	Small	(	\$60	*	2	*	1	*	3	*	2	*	100%	)	* 0	=	\$180
SECTOR 19: Chemical Distributors																			
ALL	Large	(	\$60	*	1	*	1	*	3	*	2	*	75%	)	* 10	=	\$2,822
	Small	(	\$60	*	1	*	1	*	3	*	2	*	75%	)	* 79	=	\$21,290
SECTOR 20: Textile Dyeing																			
ALL	Large	(	\$60	*	3	*	3	*	3	*	2	*	75%	)	* 19	=	\$45,441
	Small	(	\$60	*	2	*	1	*	2	*	2	*	75%	)	* 38	=	\$13,662
SECTOR 21: Colored Glass Producers																			
General Industry	Large	(\$60	*	3	*	3	*	3	*	12	*	2	*	75%)	* 0	=	\$2,916
	Small	(	\$60	*	2	*	1	*	4	*	2	*	75%	)	* 1	=	\$684
Fiber, Flat and Container Glass	Large	(	\$60	*	5	*	1	*	1	*	2	*	75%	)	* 4	=	\$1,935
	Small	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 0	=	\$23
SECTOR 22: Printing																			
ALL	Large	(	\$60	*	3	*	3	*	2	*	2	*	75%	)	* 5	=	\$8,100
	Small	(	\$60	*	2	*	1	*	2	*	2	*	75%	)	* 20	=	\$7,200
SECTOR 24: Chromium Catalyst Users																			
Catalyst Users	Large	(	\$60	*	2	*	3	*	3	*	2	*	75%	)	* 8	=	\$13,203
	Small	(	\$60	*	0	*	1	*	3	*	2	*	0%	)	* 0	=	\$0
Chromium Catalyst Service Companies	Large	(	\$60	*	0	*	3	*	3	*	2	*	75%	)	* 1	=	\$0
	Small	(	\$60	*	0	*	1	*	3	*	2	*	75%	)	* 0	=	\$0
SECTOR 25: Refractory Brick Producers																			
ALL	Large	(	\$60	*	9	*	1	*	15	*	2	*	75%	)	* 0	=	\$3,645
	Small	(	\$60	*	0	*	1	*	0	*	2	*	75%	)	* 0	=	\$0
SECTOR 26: Woodworking																			
General Industry	Large	(	\$60	*	1	*	1	*	2	*	2	*	75%	)	* 9	=	\$1,683
	Small	(	\$60	*	1	*	1	*	2	*	2	*	75%	)	* 5	=	\$900
Maritime	Large	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 2	=	\$189
	Small	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 2	=	\$167
Construction	Large	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 74	=	\$6,701
	Small	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 298	=	\$26,820
Government	State	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 1	=	\$117
	Local	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 5	=	\$423
SECTOR 27: Solid Waste Incineration																			
General Industry	Large	(	\$60	*	6	*	3	*	15	*	2	*	75%	)	* 3	=	\$66,825
	Small	(	\$60	*	6	*	1	*	3	*	2	*	75%	)	* 3	=	\$5,346
Government	State	(	\$60	*	0	*	3	*	15	*	2	*	75%	)	* 0	=	\$0
	Local	(	\$60	*	6	*	1	*	3	*	2	*	75%	)	* 2	=	\$2,673
SECTOR 30: Superalloy Producers and Users																			
ALL	Large	(	\$60	*	12	*	3	*	3	*	2	*	75%	)	* 1	=	\$8,748
	Small	(	\$60	*	0	*	3	*	3	*	2	*	0%	)	* 0	=	\$0
SECTOR 31: Construction																			
Industrial Rehabilitation	Large	(	\$60	*	1	*	1	*	1	*	2	*	0%	)	* 3	=	\$0
	Small	(	\$60	*	1	*	1	*	1	*	2	*	0%	)	* 11	=	\$0
	State	(	\$60	*	1	*	1	*	1	*	2	*	100%	)	* 1	=	\$108
	Local	(	\$60	*	1	*	1	*	1	*	2	*	100%	)	* 4	=	\$498
Hazardous Waste-site Work	Large	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 2	=	\$221
	Small	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 8	=	\$725
	State	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 0	=	\$5
	Local	(	\$60	*	1	*	1	*	1	*	2	*	75%	)	* 11	=	\$990
Refractory Brick Restoration	Large	(	\$60	*	1	*	1	*	1	*	2	*	0%	)	* 3	=	\$0
	Small	(	\$60	*	1	*	1	*	1	*	2	*	0%	)	* 8	=	\$0
															Total	=	\$908,208		

Table 3 -
Scheduled Monitoring Option Semi-Annual Exposure Monitoring

COST = BURDEN HOURS * NON SUPEWAGE
HOURS = (ADMINTIME * NONSUPWAGE * JOBAL * SHIFTS * #SAMPS * 2 * %NOTSEMI * %ABOVEAL * (%INHOUSE

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 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.

		ADMINTIME	NONSUPEWAGE	JOBAL	SHIFTS	#SAMPS	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%INHOUSE	%LEARN	#PLANTS	TOTAL COST	TOTAL HOURS	RESPONSES
Sector 1: Electroplating															
Hard Chrome	Large	0.50	\$ 21.43	1	2	3	2	100%	49.00%	(0% + 0%)	1,017	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	49.00%	(0% + 0%)	1,914	=	\$0	0	0
Job Shop Chrome Plater	Large	0.50	21.43	1	2	3	2	100%	11.00%	(0% + 0%)	490	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	11.00%	(0% + 0%)	922	=	\$0	0	0
Captive Shop Chrome Plater	Large	0.50	21.43	1	2	3	2	100%	14.00%	(0% + 0%)	527	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	14.00%	(0% + 0%)	992	=	\$0	0	0
Job Shop Plater	Large	0.50	21.43	1	2	3	2	100%	10.00%	(0% + 0%)	490	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	10.00%	(0% + 0%)	922	=	\$0	0	0
Captive Shop Plater	Large	0.50	21.43	1	2	3	2	100%	13.00%	(0% + 0%)	527	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	13.00%	(0% + 0%)	922	=	\$0	0	0
Operator	Large	0.50	21.43	1	2	3	2	100%	16.00%	(0% + 0%)	1017	=	\$0	0	0
	Small	0.50	21.43	1	1	3	2	100%	16.00%	(0% + 0%)	1914	=	\$0	0	0
Sector 2: Welding															
General Industry															
SMAW	Large	0.50	21.10	1	3	2	2	100%	0.92%	(10% + 0%)	3,659	=	\$426	20	40
	Small	1.00	21.10	1	1	3	2	100%	0.92%	(0% + 0%)	4,100	=	\$0	0	0
GMAW	Large	0.50	21.10	1	3	2	2	100%	0.73%	(10% + 0%)	2,684	=	\$248	12	24
	Small	1.00	21.10	1	1	3	2	100%	0.73%	(0% + 0%)	3,007	=	\$0	0	0
TIG	Large	0.50	21.10	1	3	2	2	100%	0.00%	(10% + 0%)	813	=	\$0	0	0
	Small	1.00	21.10	1	1	3	2	100%	0.00%	(0% + 0%)	911	=	\$0	0	0
SAW	Large	0.50	21.10	0	3	2	2	100%	0.00%	(10% + 0%)	325	=	\$0	0	0
	Small	1.00	21.10	0	1	3	2	100%	0.00%	(0% + 0%)	364	=	\$0	0	0
Plasma Cutting	Large	0.50	21.10	1	3	2	2	100%	0.00%	(10% + 0%)	81	=	\$0	0	0
	Small	1.00	21.10	1	1	3	2	100%	0.00%	(0% + 0%)	91	=	\$0	0	0
Plasma Welding	Large	0.50	21.10	1	3	2	2	100%	0.00%	(10% + 0%)	81	=	\$0	0	0
	Small	1.00	21.10	1	1	3	2	100%	0.00%	(0% + 0%)	91	=	\$0	0	0
Resistance Welding	Large	0.50	21.10	1	3	2	2	100%	0.00%	(10% + 0%)	488	=	\$0	0	0
	Small	1.00	21.10	1	1	3	2	100%	0.00%	(0% + 0%)	547	=	\$0	0	0
MARITIME															
SMAW	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	18	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	10	=	\$0	0	0
GMAW	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	25	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	14	=	\$0	0	0
TIG	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	6	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	3	=	\$0	0	0
FCAW	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	120	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	68	=	\$0	0	0
Plasma Cutting	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	4	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	2	=	\$0	0	0
Plasma Welding	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	2	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	1	=	\$0	0	0
Oxy-fuel Cutting	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	4	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	2	=	\$0	0	0
Air Carbon Arc Cutting	Large	0.50	21.10	1	3	1	2	100%	0.00%	(50% + 0%)	2	=	\$0	0	0
	Small	1.00	21.10	1	2	1	2	100%	0.00%	(10% + 0%)	1	=	\$0	0	0
Electric Torch Cutting	Large	0.50	21.10	0	3	1	2	100%	0.00%	(50% + 0%)	0	=	\$0	0	0
	Small	1.00	21.10	0	2	1	2	100%	0.00%	(10% + 0%)	0	=	\$0	0	0
Thermal Spray Tungsten Cutting	Large	0.50	21.10	0	3	1	2	100%	0.00%	(50% + 0%)	0	=	\$0	0	0
	Small	1.00	21.10	0	2	1	2	100%	0.00%	(10% + 0%)	0	=	\$0	0	0
SAW	Large	0.50	21.10	0	3	1	2	100%	0.00%	(50% + 0%)	16	=	\$0	0	0
	Small	1.00	21.10	0	2	1	2	100%	0.00%	(10% + 0%)	9	=	\$0	0	0

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CONSTRUCTION						
SMAW	Large	(0.50 * 21.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 208) =	\$0	0	0	
	Small	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 1665) =	\$0	0	0	
Plasma Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 3) =	\$0	0	0	
	Small	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 22) =	\$0	0	0	
GMAW	Large	(0.50 * 21.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 42) =	\$0	0	0	
	Small	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 333) =	\$0	0	0	
Brazing	State	(0.50 * 21.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 21) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 167) =	\$0	0	0	
Metallizing	State	(0.50 * 21.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 4) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 33) =	\$0	0	0	
GOVERNMENT						
SMAW	State	(0.50 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 20) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 611) =	\$0	0	0	
Plasma Cutting	State	(0.50 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 0) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 8) =	\$0	0	0	
GMAW	State	(0.50 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 4) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 122) =	\$0	0	0	
Brazing	State	(0.50 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 2) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 61) =	\$0	0	0	
Metallizing	State	(0.50 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 1) =	\$0	0	0	
	Local	(1.00 * 21.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 12) =	\$0	0	0	
Sector 2 - Mild Steel Welding						
General Industry						
SMAW	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 4,906) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 4,995) =	\$0	0	0	
GMAW	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 3,598) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 3,663) =	\$0	0	0	
TIG	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 1,090) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 1,110) =	\$0	0	0	
SAW	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 436) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 444) =	\$0	0	0	
Plasma Cutting	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 109) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 111) =	\$0	0	0	
Plasma Welding	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 109) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 111) =	\$0	0	0	
Resistance Welding	Large	(0.50 * 21.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 654) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 666) =	\$0	0	0	
MARITIME						
SMAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 38) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 22) =	\$0	0	0	
GMAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 55) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 31) =	\$0	0	0	
TIG	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 13) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 7) =	\$0	0	0	
FCAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 258) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 146) =	\$0	0	0	
Plasma Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 8) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) =	\$0	0	0	
Plasma Welding	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 3) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 2) =	\$0	0	0	
Oxy-fuel Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 8) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) =	\$0	0	0	
Air Carbon Arc Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 3) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 2) =	\$0	0	0	
Electric Torch Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 1) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 0) =	\$0	0	0	
Thermal Spray Tungsten Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 1) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 0) =	\$0	0	0	
SAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 34) =	\$0	0	0	
	Small	(1.00 * 21.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 19) =	\$0	0	0	

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CONSTRUCTION											
SMAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 312) =	\$0	0	0	Plasma Cutting	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 4) =	\$0	0	0
	Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 2357) =	\$0	0	0		Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 31) =	\$0	0	0
GMAW	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 62) =	\$0	0	0	Brazing	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 31) =	\$0	0	0
	Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 471) =	\$0	0	0		Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 236) =	\$0	0	0
Metallizing	Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 6) =	\$0	0	0		Large	(0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * (5% + 0%) * 6) =	\$0	0	0
	Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 47) =	\$0	0	0		Small	(1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 47) =	\$0	0	0
SECTOR 3: PAINTING											
AEROSPACE	Large	(0.50 * 26.63 * 1 * 3 * 3 * 2 * 2 * 100% * 28.00% * (75% + 0%) * 54) =	\$2,718	102	204	General Industry (Autobody)	Large	(0.50 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 5.00% * (75% + 0%) * 360) =	\$360	14	27
	Small	(1.00 * 26.63 * 1 * 1 * 3 * 2 * 2 * 100% * 9.00% * (25% + 0%) * 68) =	\$244	9	9		Small	(1.00 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 5.00% * (25% + 0%) * 1585) =	\$1,055	40	40
General Industry (Coil Coating)	Large	(0.50 * 26.63 * 1 * 2 * 3 * 2 * 2 * 100% * 8.00% * (75% + 0%) * 110) =	\$1,055	40	79	Maritime	Large	(0.50 * 26.63 * 2 * 3 * 1 * 2 * 2 * 100% * 36.00% * (90% + 0%) * 321) =	\$16,618	624	1248
	Small	(1.00 * 26.63 * 1 * 1 * 3 * 2 * 2 * 100% * 8.00% * (25% + 0%) * 20) =	\$64	2	2		Small	(1.00 * 26.63 * 0 * 1 * 1 * 2 * 2 * 100% * 36.00% * (10% + 0%) * 555) =	\$0	0	0
Construction	Large	(0.50 * 26.63 * 1 * 3 * 1 * 2 * 2 * 100% * 22.00% * (75% + 0%) * 1056) =	\$13,920	523	1045	Government	Large	(0.50 * 26.63 * 1 * 3 * 1 * 2 * 2 * 100% * 22.00% * (75% + 0%) * 1056) =	\$13,920	523	1045
	Small	(1.00 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 22.00% * (50% + 0%) * 5614) =	\$32,890	1,235	1235		State	(0.50 * 26.63 * 1 * 3 * 1 * 2 * 2 * 100% * 12.00% * (75% + 0%) * 26) =	\$187	7	14
Government	Local	(1.00 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 12.00% * (75% + 0%) * 1439) =	\$6,898	259	259	ALL	Large	(0.50 * 31.15 * 3 * 3 * 3 * 2 * 2 * 100% * 45.00% * (0% + 0%) * 2) =	\$0	0	0
	Small	(1.00 * 31.15 * 0 * 1 * 3 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 0) =	\$0	0	0		Small	(1.00 * 31.15 * 0 * 1 * 3 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 0) =	\$0	0	0
SECTOR 4: Producers of Chromates											
SECTOR 5: Chromate Pigment Producers											
ALL	Large	(0.50 * 30.36 * 5 * 2 * 3 * 2 * 2 * 100% * 71.00% * (0% + 0%) * 2) =	\$0	0	0	ALL	Large	(0.50 * 25.72 * 1 * 3 * 3 * 2 * 2 * 100% * 33.00% * (0% + 0%) * 3) =	\$0	0	0
	Small	(1.00 * 30.36 * 1 * 1 * 3 * 2 * 2 * 100% * 50.00% * (0% + 0%) * 1) =	\$0	0	0		Small	(1.00 * 25.72 * 0 * 3 * 0 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 0) =	\$0	0	0
SECTOR 6: CCA Producers											
SECTOR 7: Chromium Catalyst Producers											
ALL	Large	(0.50 * 31.15 * 6 * 3 * 3 * 2 * 2 * 100% * 100.00% * (80% + 0%) * 5) =	\$6,728	216	432	ALL	Large	(0.50 * 23.20 * 1 * 2 * 3 * 2 * 2 * 100% * 13.00% * (25% + 0%) * 84) =	\$380	16	33
	Small	(1.00 * 31.15 * 0 * 1 * 3 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 0) =	\$0	0	0		Small	(1.00 * 23.20 * 1 * 2 * 3 * 2 * 2 * 100% * 13.00% * (25% + 0%) * 132) =	\$1,194	51	51
SECTOR 8: Paint and Coating Producers											
SECTOR 9: Printing Ink Producers											
ALL	Large	(0.50 * 23.24 * 3 * 1 * 9 * 2 * 2 * 100% * 69.00% * (10% + 0%) * 3) =	\$130	6	11	ALL	Large	(0.50 * 23.24 * 2 * 1 * 5 * 2 * 2 * 100% * 69.00% * (10% + 0%) * 10) =	\$160	7	14
	Small	(0.50 * 23.24 * 2 * 1 * 5 * 2 * 2 * 100% * 69.00% * (10% + 0%) * 10) =	\$160	7	14		Small	(0.50 * 25.76 * 2 * 1 * 3 * 2 * 2 * 100% * 51.00% * (0 + 0) * 45) =	\$0	0	0
SECTOR 10: Plastic Colorant Producers and Users											
SECTOR 11: Plating Mixture Producers											
ALL	Large	(0.50 * 23.12 * 1 * 1 * 3 * 2 * 2 * 100% * 100.00% * (20% + 0%) * 6) =	\$83	4	7	ALL	Large	(0.50 * 23.12 * 1 * 1 * 3 * 2 * 2 * 100% * 100.00% * (20% + 0%) * 6) =	\$83	4	7
	Small	(1.00 * 23.12 * 1 * 1 * 3 * 2 * 2 * 100% * 100.00% * (25% + 0%) * 4) =	\$139	6	6		Small	(1.00 * 23.12 * 1 * 1 * 3 * 2 * 2 * 100% * 100.00% * (25% + 0%) * 4) =	\$139	6	6
SECTOR 13: Chromium Metal Producers											
ALL	Large	(0.5 * 31.25 * 2 * 3 * 3 * 2 * 2 * 100% * 100.00% * (0% + 0%) * 1) =	\$0	0	0	ALL	Large	(0.5 * 31.25 * 2 * 3 * 3 * 2 * 2 * 100% * 100.00% * (0% + 0%) * 1) =	\$0	0	0
	Small	(1 * 31.25 * 0 * 1 * 1 * 2 * 2 * 0% * 0.00% * (0% + 0%) * 0) =	\$0	0	0		Small	(1 * 31.25 * 0 * 1 * 1 * 2 * 2 * 0% * 0.00% * (0% + 0%) * 0) =	\$0	0	0
SECTOR 14: Iron and Steel Mills											
Alloy and Stainless Steel	Large	(0.50 * 31.25 * 3 * 3 * 3 * 2 * 2 * 100% * 38.00% * (10% + 0%) * 53) =	\$1,699	54	109	Carbon Steel	Large	(0.50 * 31.25 * 0 * 3 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 159) =	\$0	0	0
	Small	(1.00 * 31.25 * 1 * 1 * 3 * 2 * 2 * 100% * 38.00% * (10% + 0%) * 17) =	\$121	4	4		Small	(1.00 * 31.25 * 0 * 3 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 159) =	\$0	0	0
SECTOR 14B: Forging Industry											
Reshaping	Large	(0.50 * 31.25 * 4 * 1 * 3 * 2 * 2 * 100% * 63.00% * (10% + 0%) * 52) =	\$1,229	39	79		Large	(0.50 * 31.25 * 4 * 1 * 3 * 2 * 2 * 100% * 63.00% * (10% + 0%) * 52) =	\$1,229	39	79
	Small	(1.00 * 31.25 * 2 * 1 * 3 * 2 * 2 * 100% * 63.00% * (10% + 0%) * 49) =	\$1,158	37	37		Small	(1.00 * 31.25 * 2 * 1 * 3 * 2 * 2 * 100% * 63.00% * (10% + 0%) * 49) =	\$1,158	37	37

Table 3 -
Scheduled Monitoring Option Semi-Annual Exposure Monitoring

SECTOR 15: Iron and Steel Foundries										
ALL	Large	(0.50 * 22.80 * 6 * 3 * 5 * 2 * 100% * 100.00% * (10% + 0%) * 198) = \$40,630	1,782	3564						
	Small	(1.00 * 22.80 * 5 * 1 * 5 * 2 * 100% * 100.00% * (10% + 0%) * 144) = \$16,416	720	720						
SECTOR 17: Chromium Dye Producers										
ALL	Large	(0.50 * 30.36 * 6 * 1 * # * 2 * 100% * 38.00% * (0% + 0%) * 3) = \$0	0	0						
	Small	(1.00 * 30.36 * 6 * 1 * 7 * 2 * 100% * 38.00% * (0% + 0%) * 1) = \$0	0	0						
SECTOR 18: Chromium Sulfate Producers										
ALL	Large	(0.5 * 33.42 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 0) = \$0	0	0						
	Small	(0.5 * 33.42 * 1 * 1 * 3 * 2 * 100% * 27.00% * (0% + 0%) * 5) = \$0	0	0						
SECTOR 19: Chemical Distributors										
ALL	Large	(0.50 * 24.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 209) = \$0	0	0						
	Small	(0.50 * 24.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 1,577) = \$0	0	0						
SECTOR 20: Textile Dyeing										
ALL	Large	(0.50 * 16.08 * 0 * 3 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 374) = \$0	0	0						
	Small	(0.50 * 16.08 * 0 * 1 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 759) = \$0	0	0						
SECTOR 21: Colored Glass Producers										
General Industry	Large	(0.50 * 23.25 * 1 * 3 * # * 2 * 100% * 25.00% * (10% + 0%) * 6) = \$126	5	11						
	Small	(1.00 * 23.25 * 0 * 1 * 4 * 2 * 100% * 0.00% * (10% + 0%) * 19) = \$0	0	0						
Fiber, Flat, Container Glass	Large	(0.50 * 23.25 * 3 * 1 * 1 * 2 * 100% * 20.00% * (10% + 0%) * 86) = \$120	5	12						
	Small	(1.00 * 23.25 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) = \$0	0	0						
SECTOR 22: Printing										
ALL	Large	(0.5 * 16.79 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 100) = \$0	0	0						
	Small	(0.5 * 16.79 * 0 * 1 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 400) = \$0	0	0						
SECTOR 24: Chromium Catalyst Users										
Catalyst Users	Large	(0.5 * 26.18 * 2 * 3 * 3 * 2 * 100% * 9.00% * (10% + 0%) * 163) = \$691	26	53						
	Small	(1.0 * 26.18 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0	0	0						
Chromium Catalyst Service Companies	Large	(0.5 * 26.18 * 0 * 3 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 21) = \$0	0	0						
	Small	(1.0 * 26.18 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 4) = \$0	0	0						
SECTOR 25: Refractory Brick Producers										
ALL	Large	(0.5 * 20.65 * 0 * 1 * # * 2 * 100% * 0.00% * (10% + 0%) * 6) = \$0	0	0						
	Small	(0.5 * 20.65 * 0 * 1 * 0 * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0	0	0						
SECTOR 26: Woodworking										
General Industry	Large	(0.50 * 25.86 * 0 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 187) = \$0	0	0						
	Small	(1 * 25.86 * 0 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 100) = \$0	0	0						
Maritime	Large	(0.50 * 25.86 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 42) = \$0	0	0						
	Small	(1 * 25.86 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 37) = \$0	0	0						
Construction	Large	(0.50 * 25.86 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 1489) = \$0	0	0						
	Small	(1 * 25.86 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 5,960) = \$0	0	0						
Government	State	(0.50 * 25.86 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 26) = \$0	0	0						
	Local	(1 * 25.86 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 94) = \$0	0	0						
SECTOR 27: Solid Waste Incineration										
General Industry	Large	(0.50 * 21.93 * 0 * 3 * # * 2 * 100% * 0.00% * (10% + 0%) * 55) = \$0	0	0						
	Small	(1 * 21.93 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 66) = \$0	0	0						
Government	State	(0.50 * 21.93 * 0 * 3 * # * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0	0	0						
	Local	(1 * 21.93 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 33) = \$0	0	0						
SECTOR 30: Superalloy Producers and Users										
ALL	Large	(0.5 * 22.49 * 0 * 3 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 18) = \$0	0	0						
	Small	(1 * 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 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 62) = \$0	0	0						
	Small	(1.0 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 221) = \$0	0	0						
	State	(0.5 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 18) = \$0	0	0						
	Local	(1.0 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 83) = \$0	0	0						
Hazardous Waste Site Work	Large	(0.5 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 49) = \$0	0	0						
	Small	(1.0 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 161) = \$0	0	0						
	State	(0.5 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 1) = \$0	0	0						
Refractory Brick Restoration	Local	(1.0 * 25.88 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 226) = \$0	0	0						
	Large	(0.5 * 25.88 * 0 * 1 * 1 * 2 * 100% * 60.00% * (10% + 0%) * 54) = \$0	0	0						
Small	(1.0 * 25.88 * 0 * 1 * 1 * 2 * 100% * 60.00% * (10% + 0%) * 166) = \$0	0	0							
Total			\$147,686	5,866	9,370					

Table 4 -
Semi-Annual Exposure Monitoring (Cost to Perform Determination)

COST = (SEMICONTTIME * CONTCOST * 2 * %NOTSEMI * %ABOVEAL * %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 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

		SEMICONTTIME	CONTCOST	SEMI-ANNUALLY	%NOTSEMI	%ABOVEAL	%CONT	# PLANTS	COST
Sector 1: Electroplating									
Hard Chrome	Large	(12 * \$ 90.00 * 2 * 100% * 49.00% * 100%) * 1,017	=	1,076,393					
	Small	(12 * \$ 90.00 * 2 * 100% * 49.00% * 100%) * 1,914	=	2,025,778					
Job Shop Chrome Plater	Large	(12 * \$ 90.00 * 2 * 100% * 11.00% * 100%) * 490	=	116,424					
	Small	(12 * \$ 90.00 * 2 * 100% * 11.00% * 100%) * 922	=	219,067					
Captive Shop Chrome Plater	Large	(12 * \$ 90.00 * 2 * 100% * 14.00% * 100%) * 527	=	159,365					
	Small	(12 * \$ 90.00 * 2 * 100% * 14.00% * 100%) * 992	=	299,981					
Job Shop Plater	Large	(12 * \$ 90.00 * 2 * 100% * 10.00% * 100%) * 490	=	105,840					
	Small	(12 * \$ 90.00 * 2 * 100% * 10.00% * 100%) * 922	=	199,152					
Captive Shop Plater	Large	(12 * \$ 90.00 * 2 * 100% * 13.00% * 100%) * 527	=	147,982					
	Small	(12 * \$ 90.00 * 2 * 100% * 13.00% * 100%) * 922	=	258,898					
Operator	Large	(12 * \$ 90.00 * 2 * 100% * 16.00% * 100%) * 1017	=	351,475					
	Small	(12 * \$ 90.00 * 2 * 100% * 16.00% * 100%) * 1914	=	661,478					
Sector 2: Welding									
GENERAL INDUSTRY									
SMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.92% * 90%) * 3,659	=	65,440					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.92% * 100%) * 4,100	=	81,475					
GMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.73% * 90%) * 2,684	=	38,089					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.73% * 100%) * 3,007	=	47,414					
TIG	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 813	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%) * 911	=	0					
SAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 325	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%) * 364	=	0					
Plasma Cutting	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 81	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%) * 91	=	0					
Plasma Welding	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 81	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%) * 91	=	0					
Resistance Welding	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 488	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%) * 547	=	0					
MARITIME									
SMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 18	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 10	=	0					
GMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 25	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 14	=	0					
TIG	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 6	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 3	=	0					
FCAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 120	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 68	=	0					
Plasma Cutting	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 4	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 2	=	0					
Plasma Welding	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 2	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 1	=	0					
Oxy-fuel Cutting	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 4	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 2	=	0					
Air Carbon Arc Cutting	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 2	=	0					
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 1	=	0					
Electric Torch Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 0	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 0	=	0					
Thermal Spray Tungsten Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 0	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 0	=	0					
SAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%) * 16	=	0					
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%) * 9	=	0					

Table 4 -
Semi-Annual Exposure Monitoring (Cost to Perform Determination)

		SEMI-CONTINUED	CONT COST	HEAT-ANNUALLY	% NOT SEMI	% ABOVE AVEAL	% CONT	# PLANTS	COST
CONSTRUCTION									
SMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 208	=	0				
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 1665	=	0				
Plasma Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 3	=	0				
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 22	=	0				
GMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 42	=	0				
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 333	=	0				
Brazing	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 21	=	0				
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 167	=	0				
Metallizing	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 4	=	0				
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 33	=	0				
GOVERNMENT									
SMAW	State	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 20	=	0				
	Local	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 611	=	0				
Plasma Cutting	State	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 0	=	0				
	Local	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 8	=	0				
GMAW	State	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 4	=	0				
	Local	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 122	=	0				
Brazing	State	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 2	=	0				
	Local	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 61	=	0				
Metallizing	State	(12 * \$ 90.00 * 2 * 100% * 0.00% * 95%)	* 1	=	0				
	Local	(12 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 12	=	0				
Sector 2: Mild Steel Welding									
GENERAL INDUSTRY									
SMAW	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 4,906	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 4,995	=	0				
GMAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 3,598	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 3,663	=	0				
TIG	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 1090	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 1110	=	0				
SAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 436	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 444	=	0				
Plasma Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 109	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 111	=	0				
Plasma Welding	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 109	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 111	=	0				
Resistance Welding	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 654	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	* 666	=	0				
MARITIME									
SMAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 38	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 22	=	0				
GMAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 55	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 31	=	0				
TIG	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 13	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 7	=	0				
FCAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 258	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 146	=	0				
Plasma Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 8	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 5	=	0				
Plasma Welding	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 3	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 2	=	0				
Oxy-fuel Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 8	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 5	=	0				
Air Carbon Arc Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 3	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 2	=	0				
Electric Torch Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 1	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 0	=	0				
Thermal Spray Tungsten Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 1	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 0	=	0				
SAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 50%)	* 34	=	0				
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	* 19	=	0				

Table 4 -
Semi-Annual Exposure Monitoring (Cost to Perform Determination)

		SEMI-ANNUAL	CONT COST	SEMI-ANNUAL	% NOT SEMI	% ABOVE AL	% CONT	# PLANTS	COST
CONSTRUCTION									
SMAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)						312	= 0
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)						2357	= 0
Plasma Cutting	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)						4	= 0
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)						31	= 0
GMAW	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)						62	= 0
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)						471	= 0
Brazing	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)						31	= 0
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)						236	= 0
Metallizing	State	(0 * \$ 90.00 * 2 * 100% * 0.00% * 95%)						6	= 0
	Local	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)						47	= 0
SECTOR 3: PAINTING									
AEROSPACE	Large	(12 * \$ 90.00 * 2 * 100% * 28.00% * 25%)						54	= 8,165
	Small	(12 * \$ 90.00 * 2 * 100% * 9.00% * 75%)						68	= 9,914
General Industry (Autobody)	Large	(12 * \$ 90.00 * 2 * 100% * 5.00% * 25%)						360	= 9,720
	Small	(12 * \$ 90.00 * 2 * 100% * 5.00% * 75%)						1585	= 128,385
General Industry (Coil Coating)	Large	(12 * \$ 90.00 * 2 * 100% * 8.00% * 25%)						110	= 4,752
	Small	(12 * \$ 90.00 * 2 * 100% * 8.00% * 75%)						20	= 2,592
Maritime	Large	(12 * \$ 90.00 * 2 * 100% * 36.00% * 10%)						321	= 24,961
	Small	(12 * \$ 90.00 * 2 * 100% * 36.00% * 90%)						555	= 388,411
Construction	Large	(12 * \$ 90.00 * 2 * 100% * 22.00% * 25%)						1056	= 125,453
	Small	(12 * \$ 90.00 * 2 * 100% * 22.00% * 50%)						5614	= 1,333,886
Government	State	(12 * \$ 90.00 * 2 * 100% * 12.00% * 25%)						26	= 1,685
	Local	(12 * \$ 90.00 * 2 * 100% * 12.00% * 25%)						1439	= 93,247
SECTOR 4: Producers of Chromates									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 45.00% * 100%)						2	= 1,944
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 0%)						0	= 0
SECTOR 5: Chromate Pigment Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 71.00% * 100%)						2	= 3,067
	Small	(12 * \$ 90.00 * 2 * 100% * 50.00% * 100%)						1	= 1,080
SECTOR 6: CoCA Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 33.00% * 100%)						3	= 2,138
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 0%)						0	= 0
SECTOR 7: Chromium Catalyst Producers									
ALL	Large	(20 * \$ 90.00 * 2 * 100% * 100% * 20%)						5	= 3,600
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 0%)						0	= 0
SECTOR 8: Paint and Coating Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 13.00% * 75%)						84	= 17,690
	Small	(12 * \$ 90.00 * 2 * 100% * 13.00% * 75%)						132	= 27,799
SECTOR 9: Printing Ink Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 69.00% * 90%)						3	= 4,024
	Small	(12 * \$ 90.00 * 2 * 100% * 69.00% * 90%)						10	= 13,414
SECTOR 10: Plastic Colorant Producers and Users									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 51.00% * 100%)						92	= 101,347
	Small	(12 * \$ 90.00 * 2 * 100% * 51.00% * 100%)						45	= 49,572
SECTOR 11: Plating Mixture Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 100% * 80%)						6	= 10,368
	Small	(12 * \$ 90.00 * 2 * 100% * 100% * 75%)						4	= 6,480
SECTOR 13: Chromium Metal Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 100% * 100%)						1	= 2,160
	Small	(0 * \$ 90.00 * 2 * 0% * 0.00% * 0%)						0	= 0
SECTOR 14: Iron and Steel Mills									
Alloy and Stainless Steel	Large	(12 * \$ 90.00 * 2 * 100% * 38.00% * 90%)						53	= 39,152
	Small	(12 * \$ 90.00 * 2 * 100% * 38.00% * 90%)						17	= 12,558
Carbon Steel	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)						159	= 0
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)						50	= 0
SECTOR 14B: Forging Industry									
Reshaping	Large	(12 * \$ 90.00 * 2 * 100% * 63.00% * 90%)						52	= 63,685
	Small	(12 * \$ 90.00 * 2 * 100% * 63.00% * 90%)						49	= 60,011
SECTOR 15: Iron and Steel Foundries									
ALL	Large	(20 * \$ 90.00 * 2 * 100% * 100% * 90%)						198	= 641,520
	Small	(12 * \$ 90.00 * 2 * 100% * 100% * 90%)						144	= 279,936
SECTOR 17: Chromium Dye Producers									
ALL	Large	(12 * \$ 90.00 * 2 * 100% * 38.00% * 100%)						3	= 2,462
	Small	(12 * \$ 90.00 * 2 * 100% * 38.00% * 100%)						1	= 821

Table 4 -
Semi-Annual Exposure Monitoring (Cost to Perform Determination)

		SEMI-CONTINUED	CONT-COST	SEMI-ANNUALLY	% NOT SEMI	% ABOVE ALL	% CONT	# PLANTS	COST
SECTOR 18: Chromium Sulfate Producers									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 0%)	*	0	=	0			
	Small	(12 * \$ 90.00 * 2 * 100% * 27.00% * 100%)	*	5	=	2,916			
SECTOR 19: Chemical Distributors									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	209	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	1,577	=	0			
SECTOR 20: Textile Dyeing									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	374	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	759	=	0			
SECTOR 21: Colored Glass Producers									
General Industry	Large	(12 * \$ 90.00 * 2 * 100% * 25.00% * 90%)	*	6	=	2,916			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	19	=	0			
Fiber, Flat, Container Glass	Large	(12 * \$ 90.00 * 2 * 100% * 20.00% * 90%)	*	86	=	33,437			
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	5	=	0			
SECTOR 22: Printing									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	100	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	400	=	0			
SECTOR 24: Chromium Catalyst Users									
Catalyst Users	Large	(12 * \$ 90.00 * 2 * 100% * 9.00% * 90%)	*	163	=	28,518			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	0	=	0			
Chromium Catalyst Service Companies	Large	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	2	=	0			
	Small	(12 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	4	=	0			
SECTOR 25: Refractory Brick Producers									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	6	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	0	=	0			
SECTOR 26: Woodworking									
General Industry	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	187	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	100	=	0			
Maritime	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	42	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	37	=	0			
Construction	Large	(12 * \$ 90.00 * 2 * 100% * 22.00% * 100%)	*	1,489	=	707,573			
	Small	(12 * \$ 90.00 * 2 * 100% * 22.00% * 100%)	*	5,960	=	2,832,192			
Government	State	(12 * \$ 90.00 * 2 * 100% * 22.00% * 100%)	*	26	=	12,355			
	Local	(12 * \$ 90.00 * 2 * 100% * 22.00% * 100%)	*	94	=	44,669			
SECTOR 27: Solid Waste Incineration									
General Industry	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	55	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	66	=	0			
Government	State	(0 * \$ 90.00 * 2 * 100% * 0.00% * 25%)	*	0	=	0			
	Local	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	33	=	0			
SECTOR 30: Superalloy Producers and Users									
ALL	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	18	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 0%)	*	0	=	0			
SECTOR 31: Construction									
Industrial Rehabilitation	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	62	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	221	=	0			
	State	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	18	=	0			
	Local	(0 * \$ 90.00 * 2 * 100% * 0.00% * 100%)	*	83	=	0			
Hazardous Waste-site Work	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	49	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	161	=	0			
	State	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	1	=	0			
Refractory Brick Restoration	Large	(0 * \$ 90.00 * 2 * 100% * 0.00% * 90%)	*	226	=	0			
	Small	(0 * \$ 90.00 * 2 * 100% * 60.00% * 90%)	*	54	=	0			
Total									12,994,829

Table 5 -
Semi-Annual Exposure Monitoring - Costs for Exposure Monitoring Samples

$COST = (SAMP\ COST * JOBAL * SHIFTS * \#SAMPS * 2 * \%NOTSEMI * \%ABOVEAL) * \#PLANTS$

- * SAMP COST = Variable cost per sample (e.g., laboratory analysis)
- * 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 above the AL.
- * #PLANTS = Number of plants represented by the model input.

		SAMP COST	JOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	COST
Sector 1: Electroplating										
Hard Chrome	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 49%)							1,017	= 358,798
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 49%)							1,914	= 337,630
Job Shop Chrome Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 11%)							490	= 38,808
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 11%)							922	= 36,511
Captive Shop Chrome Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 14%)							527	= 53,122
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 14%)							992	= 49,997
Job Shop Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 10%)							490	= 35,280
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 10%)							922	= 33,192
Captive Shop Plater	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 13%)							527	= 49,327
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 13%)							922	= 43,150
Operator	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 16%)							1017	= 117,158
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 16%)							1914	= 110,246
Sector 2: Welding										
General Industry										
SMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0.92%)							3,659	= 24,237
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 0.92%)							4,100	= 13,579
GMAW	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0.73%)							2,684	= 14,107
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 0.73%)							3,007	= 7,902
TIG	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0%)							813	= 0
	Small	(\$60 * 1 * 1 * 3 * 2 * 100 * 0%)							911	= 0
SAW	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%)							325	= 0
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							364	= 0
Plasma Cutting	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0%)							81	= 0
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 0%)							91	= 0
Plasma Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0%)							81	= 0
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 0%)							91	= 0
Resistance Welding	Large	(\$60 * 1 * 3 * 2 * 2 * 100% * 0%)							488	= 0
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 0%)							547	= 0
Maritime										
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							18	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							10	= 0
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							25	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							14	= 0
TIG	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							6	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							3	= 0
FCAW	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							120	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							68	= 0
Plasma Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							4	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							2	= 0
Plasma Welding	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							2	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							1	= 0
Oxy-fuel Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							4	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							2	= 0
Air Carbon Arc Cutting	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%)							2	= 0
	Small	(\$60 * 1 * 2 * 1 * 2 * 100% * 0%)							1	= 0
Electric Torch Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)							0	= 0
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)							0	= 0
Thermal Spray Tungsten Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)							0	= 0
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)							0	= 0
SAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)							16	= 0
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)							9	= 0

Table 5 -
Semi-Annual Exposure Monitoring - Costs for Exposure Monitoring Samples

		SAMP/COST	JOB/AD	SHIFTS	#SAMP/S	SEMI	%NOTSEMI	%ABOVE/AL	#PLANTS	COST
CONSTRUCTION										
SMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%) * 208	=	0						
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 1665	=	0						
Plasma Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 3	=	0						
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 22	=	0						
GMAW	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%) * 42	=	0						
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 333	=	0						
Brazing	State	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%) * 21	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 167	=	0						
Metallizing	State	(\$60 * 1 * 3 * 1 * 2 * 100% * 0%) * 4	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 33	=	0						
GOVERNMENT										
SMAW	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 20	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 611	=	0						
Plasma Cutting	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 0	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 8	=	0						
GMAW	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 4	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 122	=	0						
Brazing	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 2	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 61	=	0						
Metallizing	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 1	=	0						
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 0%) * 12	=	0						
Sector 2. Mild Steel Welding										
GENERAL INDUSTRY										
SMAW	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 4,906	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 4,995	=	0						
GMAW	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 3,598	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 3,663	=	0						
TIG	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 1090	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100 * 0%) * 1110	=	0						
SAW	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 436	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 444	=	0						
Plasma Cutting	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 109	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 111	=	0						
Plasma Welding	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 109	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 111	=	0						
Resistance Welding	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%) * 654	=	0						
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%) * 666	=	0						
Maritime										
SMAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 38	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 22	=	0						
GMAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 55	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 31	=	0						
TIG	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 13	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 7	=	0						
FCAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 258	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 146	=	0						
Plasma Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 8	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 5	=	0						
Plasma Welding	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 3	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 2	=	0						
Oxy-fuel Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 8	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 5	=	0						
Air Carbon Arc Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%) * 3	=	0						
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%) * 2	=	0						

Table 5 -
Semi-Annual Exposure Monitoring - Costs for Exposure Monitoring Samples

		SAMP COST	JOBAL	SHIFTS	#SAMP	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	COST
Electric Torch Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	1	=	0				
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)	*	0	=	0				
Thermal Spray Tungsten Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	1	=	0				
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)	*	0	=	0				
SAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	34	=	0				
	Small	(\$60 * 0 * 2 * 1 * 2 * 100% * 0%)	*	19	=	0				
CONSTRUCTION										
SMAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	312	=	0				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	*	2357	=	0				
Plasma Cutting	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	4	=	0				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	*	31	=	0				
GMAW	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	62	=	0				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	*	471	=	0				
Brazing	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	31	=	0				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	*	236	=	0				
Metallizing	Large	(\$60 * 0 * 3 * 1 * 2 * 100% * 0%)	*	6	=	0				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	*	47	=	0				
SECTOR 3: PAINTING										
AEROSPACE	Large	(\$60 * 1 * 3 * 3 * 2 * 100% * 28%)	*	54	=	16,330				
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 9%)	*	68	=	2,203				
General Industry (Autobody)	Large	(\$60 * 1 * 1 * 1 * 2 * 100% * 5%)	*	360	=	2,160				
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 5%)	*	1585	=	9,510				
General Industry (Coil Coating)	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 8%)	*	110	=	6,336				
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 8%)	*	20	=	576				
Maritime	Large	(\$60 * 2 * 3 * 1 * 2 * 100% * 36%)	*	321	=	83,203				
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 36%)	*	555	=	0				
Construction	Large	(\$60 * 1 * 3 * 1 * 2 * 100% * 22%)	*	1056	=	83,635				
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 22%)	*	5614	=	148,210				
Government	State	(\$60 * 1 * 3 * 1 * 2 * 100% * 12%)	*	26	=	1,123				
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 12%)	*	1439	=	20,722				
SECTOR 4: Producers of Chromates										
ALL	Large	(\$60 * 3 * 3 * 3 * 2 * 100% * 45%)	*	2	=	2,916				
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)	*	0	=	0				
SECTOR 5: Chromate Pigment Producers										
ALL	Large	(\$60 * 5 * 2 * 3 * 2 * 100% * 71%)	*	2	=	5,112				
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 50%)	*	1	=	180				
SECTOR 6: CCA Producers										
ALL	Large	(\$60 * 1 * 3 * 3 * 2 * 100% * 33%)	*	3	=	1,069				
	Small	(\$60 * 0 * 3 * 0 * 2 * 100% * 0%)	*	0	=	0				
SECTOR 7: Chromium Catalyst Producers										
ALL	Large	(\$60 * 6 * 3 * 3 * 2 * 100% * 100%)	*	5	=	32,400				
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)	*	0	=	0				
SECTOR 8: Paint and Coating Producers										
ALL	Large	(\$60 * 1 * 2 * 3 * 2 * 100% * 13%)	*	84	=	7,862				
	Small	(\$60 * 1 * 2 * 3 * 2 * 100% * 13%)	*	132	=	12,355				
SECTOR 9: Printing Ink Producers										
ALL	Large	(\$60 * 3 * 1 * 9 * 2 * 100% * 69%)	*	3	=	6,707				
	Small	(\$60 * 2 * 1 * 5 * 2 * 100% * 69%)	*	10	=	8,280				
SECTOR 10: Plastic Colorant Producers and Users										
ALL	Large	(\$60 * 2 * 3 * 3 * 2 * 100% * 51%)	*	92	=	101,347				
	Small	(\$60 * 2 * 1 * 3 * 2 * 100% * 51%)	*	45	=	16,524				

Table 5 -
Semi-Annual Exposure Monitoring - Costs for Exposure Monitoring Samples

		SAMP COST	LOFAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	COST
SECTOR 11: Plating Mixture Producers										
ALL	Large	(\$60 * 1 * 1 * 3 * 2 * 100% * 100%)							6	2,160
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 100%)							4	1,440
SECTOR 13: Chromium Metal Producers										
ALL	Large	(\$60 * 2 * 3 * 3 * 2 * 100% * 100%)							1	2,160
	Small	(\$60 * 0 * 1 * 1 * 2 * 0% * 0%)							0	0
SECTOR 14: Iron and Steel Mills										
Alloy Stainless Steel	Large	(\$60 * 3 * 3 * 3 * 2 * 100% * 38%)							53	65,254
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 38%)							17	2,326
Carbon Steel	Large	(\$60 * 0 * 3 * 3 * 2 * 100% * 0%)							159	0
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)							50	0
14B: Forging Industry										
Forging Industry	Large	(\$60 * 4 * 1 * 3 * 2 * 100% * 63%)							52	47,174
	Small	(\$60 * 2 * 1 * 3 * 2 * 100% * 63%)							49	22,226
SECTOR 15: Iron and Steel Foundries										
ALL	Large	(\$60 * 6 * 3 * 5 * 2 * 100% * 100%)							198	2,138,400
	Small	(\$60 * 5 * 1 * 5 * 2 * 100% * 100%)							144	432,000
SECTOR 17: Chromium Dye Producers										
ALL	Large	(\$60 * 6 * 1 * 21 * 2 * 100% * 38%)							3	17,237
	Small	(\$60 * 6 * 1 * 7 * 2 * 100% * 38%)							1	1,915
SECTOR 18: Chromium Sulfate Producers										
ALL	Large	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							0	0
	Small	(\$60 * 1 * 1 * 3 * 2 * 100% * 27%)							5	486
SECTOR 19: Chemical Distributors										
ALL	Large	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							209	0
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							1,577	0
SECTOR 20: Textile Dyeing										
ALL	Large	(\$60 * 0 * 3 * 3 * 2 * 100% * 0%)							374	0
	Small	(\$60 * 0 * 1 * 2 * 2 * 100% * 0%)							759	0
SECTOR 21: Colored Glass Producers										
General Industry	Large	(\$60 * 1 * 3 * 12 * 2 * 100% * 25%)							6	6,480
	Small	(\$60 * 0 * 1 * 4 * 2 * 100% * 0%)							19	0
Fiber, Flat, and Container Glass	Large	(\$60 * 3 * 1 * 1 * 2 * 100% * 20%)							86	6,192
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)							5	0
SECTOR 22: Printing										
ALL	Large	(\$60 * 0 * 3 * 2 * 2 * 100% * 0%)							100	0
	Small	(\$60 * 0 * 1 * 2 * 2 * 100% * 0%)							400	0
SECTOR 24: Chromium Catalyst Users										
Catalyst User	Large	(\$60 * 2 * 3 * 3 * 2 * 100% * 9%)							163	31,687
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							0	0
Chromium Catalyst Service Companies	Large	(\$60 * 0 * 3 * 3 * 2 * 100% * 0%)							21	0
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)							4	0
SECTOR 25: Refractory Brick Producers										
ALL	Large	(\$60 * 0 * 1 * 15 * 2 * 100% * 0%)							6	0
	Small	(\$60 * 0 * 1 * 0 * 2 * 100% * 0%)							0	0

Table 5 -
Semi-Annual Exposure Monitoring - Costs for Exposure Monitoring Samples

		SAMP/COST	TOTAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	COST
SECTOR 26: Woodworking										
General Industry	Large	(\$60 * 0 * 1 * 2 * 2 * 100% * 0%)	* 187	=	0					
	Small	(\$60 * 0 * 1 * 2 * 2 * 100% * 0%)	* 100	=	0					
Maritime	Large	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 42	=	0					
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 37	=	0					
Construction	Large	(\$60 * 1 * 1 * 1 * 2 * 100% * 22%)	* 1489	=	39,310					
	Small	(\$60 * 1 * 1 * 1 * 2 * 100% * 22%)	* 5,960	=	157,344					
Government	State	(\$60 * 1 * 1 * 1 * 2 * 100% * 22%)	* 26	=	686					
	Local	(\$60 * 1 * 1 * 1 * 2 * 100% * 22%)	* 94	=	2,482					
SECTOR 27: Solid Waste Incineration										
General Industry	Large	(\$60 * 0 * 3 * 15 * 2 * 100% * 0%)	* 55	=	0					
	Small	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)	* 66	=	0					
Government	State	(\$60 * 0 * 3 * 15 * 2 * 100% * 0%)	* 0	=	0					
	Local	(\$60 * 0 * 1 * 3 * 2 * 100% * 0%)	* 33	=	0					
SECTOR 30: Superalloy Producers and Users										
ALL	Large	(\$60 * 0 * 3 * 3 * 2 * 100% * 0%)	* 18	=	0					
	Small	(\$60 * 0 * 3 * 3 * 2 * 100% * 0%)	* 0	=	0					
SECTOR 31: Construction										
Industrial Rehabilitation	Large	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 62	=	0					
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 221	=	0					
	State	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 18	=	0					
	Local	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 83	=	0					
Hazardous Waste-site Work	Large	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 49	=	0					
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 161	=	0					
	State	(\$60 * 0 * 1 * 1 * 2 * 100% * 0%)	* 1	=	0					
Refractory Brick Restoration	Large	(\$60 * 0 * 1 * 1 * 2 * 100% * 60%)	* 54	=	0					
	Small	(\$60 * 0 * 1 * 1 * 2 * 100% * 60%)	* 166	=	0					
TOTAL										4,868,764

Table 6
Quarterly Exposure Monitoring - Employee Time and Cost

HOURS = (ADMINTIME * JOBPEL * SHIFTS * #SAMPS * 4 * %NOTQUART * %ABOVEPEL * (%INHOUSE + %LEARN)) * #PLANTS
 COST = (NONSUPEWAGE * BURDEN HOURS)

Variable

- *ADMINTIME = In-house administrative time
- SUPEWAGE = Non-supervisory wage rate, \$/hr
- *JOBPEL = Number of job categories exposed at or 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.

		ADMINTIME	NONSUPEWAGE	JOBPEL	SHIFTS	#SAMPS	%NOTQUART	%ABOVEPEL	%INHOUSE	%LEARN	#PLANTS	COSTS	HOURS	RESPONSES
Sector 1: Electroplating														
Hard Chrome	Large	0.50	\$ 21.43	0	2	3	4	100%	0%	*(0% + 0%)	1,017	= 0	= 0	0
	Small	0.50	21.43	0	1	3	4	100%	0%	*(0% + 0%)	1,914	= 0	= 0	0
Job Shop Chrome Plater	Large	0.50	21.43	0	2	3	4	100%	0%	*(0% + 0%)	490	= 0	= 0	0
	Small	0.50	21.43	0	1	3	4	100%	0%	*(0% + 0%)	922	= 0	= 0	0
Captive Shop Chrome Plater	Large	0.50	21.43	0	2	3	4	100%	0%	*(0% + 0%)	527	= 0	= 0	0
	Small	0.50	21.43	0	1	3	4	100%	0%	*(0% + 0%)	992	= 0	= 0	0
Job Shop Plater	Large	0.50	21.43	0	2	3	4	100%	0%	*(0% + 0%)	490	= 0	= 0	0
	Small	0.50	21.43	0	1	3	4	100%	0%	*(0% + 0%)	922	= 0	= 0	0
Captive Shop Plater	Large	0.50	21.43	0	2	3	4	100%	0%	*(0% + 0%)	527	= 0	= 0	0
	Small	0.50	21.43	0	1	3	4	100%	0%	*(0% + 0%)	922	= 0	= 0	0
Operator	Large	0.50	21.43	0	2	3	4	100%	0%	*(0% + 0%)	1017	= 0	= 0	0
	Small	0.50	21.43	1	1	3	4	100%	0%	*(0% + 0%)	1914	= 0	= 0	0
Sector 2: Welding														
GENERAL INDUSTRY														
SMAW	Large	0.50	21.10	1	3	2	4	100%	4.85%	*(10% + 0%)	3,659	= 94,809	= 4,493	426
	Small	1.00	21.10	1	1	3	4	100%	4.84%	*(0% + 0%)	4,100	= 0	= 0	0
GMAW	Large	0.50	21.10	1	3	2	4	100%	0.37%	*(10 + 0%)	2,684	= 530,555	= 25,145	2,180
	Small	1.00	21.10	1	1	3	4	100%	0.38%	*(0% + 0%)	3,007	= 0	= 0	0
TIG	Large	0.50	21.10	1	3	2	4	100%	0%	*(10% + 0%)	813	= 0	= 0	0
	Small	1.00	21.10	1	1	3	4	100%	0%	*(0% + 0%)	911	= 0	= 0	0
SAW	Large	0.50	21.10	0	3	2	4	100%	0%	*(10% + 0%)	325	= 0	= 0	0
	Small	1.00	21.10	0	1	3	4	100%	0%	*(0% + 0%)	364	= 0	= 0	0
Plasma Cutting	Large	0.50	21.10	1	3	2	4	100%	0%	*(10% + 0%)	81	= 0	= 0	0
	Small	1.00	21.10	1	1	3	4	100%	0%	*(0% + 0%)	91	= 0	= 0	0
Plasma Welding	Large	0.50	21.10	1	3	2	4	100%	0%	*(10% + 0%)	81	= 0	= 0	0
	Small	1.00	21.10	1	1	3	4	100%	0%	*(0% + 0%)	91	= 0	= 0	0
Resistance Welding	Large	0.50	21.10	1	3	2	4	100%	0%	*(10% + 0%)	488	= 0	= 0	0
	Small	1.00	21.10	1	1	3	4	100%	0%	*(0% + 0%)	547	= 0	= 0	0
MARITIME														
SMAW	Large	0.50	21.10	1	3	1	4	100%	0%	*(50% + 0%)	18	= 0	= 0	0
	Small	1.00	21.10	1	2	1	4	100%	0%	*(10% + 0%)	10	= 0	= 0	0
GMAW	Large	0.50	21.10	1	3	1	4	100%	0%	*(50% + 0%)	25	= 0	= 0	0
	Small	1.00	21.10	1	2	1	4	100%	0%	*(10% + 0%)	14	= 0	= 0	0
TIG	Large	0.50	21.10	1	3	1	4	100%	0%	*(50% + 0%)	6	= 0	= 0	0
	Small	1.00	21.10	1	2	1	4	100%	0%	*(10% + 0%)	3	= 0	= 0	0

Table 6
Quarterly Exposure Monitoring - Employee Time and Cost

		ADMIN TIME	NONSUPERVAC	JOBREL	SHIFTS	# SHMPS	% NOT QUART	% ABOVE/EPEL	% INHOUSE	% LEARN	# PLANTS	COSTS	HOURS	RESPONSES
FCAW	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 120	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 68	= 0	= 0	0
Plasma Cutting	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 4	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 2	= 0	= 0	0
Plasma Welding	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 2	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 1	= 0	= 0	0
Oxy-fuel Cutting	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 4	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 2	= 0	= 0	0
Air Carbon Arc Cutting	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 2	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 1	= 0	= 0	0
Electric Torch Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 0	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 0	= 0	= 0	0
Thermal Spray Tungsten Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 0	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 0	= 0	= 0	0
SAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	*(50% + 0%)	* 16	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 2	* 1	* 4	* 100%	* 0%	*(10% + 0%)	* 9	= 0	= 0	0
CONSTRUCTION														
SMAW	Large	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 208	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 1665	= 0	= 0	0
Plasma Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 3	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 22	= 0	= 0	0
GMAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 42	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 333	= 0	= 0	0
Brazing	State	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 21	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 167	= 0	= 0	0
Metallizing	State	0.50	* 21.10	* 1	* 3	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 4	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 33	= 0	= 0	0
GOVERNMENT														
SMAW	State	0.50	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 20	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 611	= 0	= 0	0
Plasma Cutting	State	0.50	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 0	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 8	= 0	= 0	0
GMAW	State	0.50	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 4	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 122	= 0	= 0	0
Brazing	State	0.50	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 2	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 61	= 0	= 0	0
Metallizing	State	0.50	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(5% + 0%)	* 1	= 0	= 0	0
	Local	1.00	* 21.10	* 1	* 1	* 1	* 4	* 100%	* 0%	*(0% + 0%)	* 12	= 0	= 0	0
Sector 2: Mkt Steel Work - General Industry														
SMAW	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	*(10% + 0%)	* 4,906	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	*(0% + 0%)	* 4,995	= 0	= 0	0
GMAW	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	*(10% + 0%)	* 3,598	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	*(0% + 0%)	* 3,663	= 0	= 0	0
TIG	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	*(10% + 0%)	* 1090	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	*(0% + 0%)	* 1110	= 0	= 0	0

Table 6
Quarterly Exposure Monitoring - Employee Time and Cost

		ADMIN TIME	NON-SUPERVAC	JOBPEL	SHIFTS	# SAMP	% NOT QUART	% ABOVE PEL	% IN HOUSE	% LEARN	# PLANTS	COSTS	HOURS	RESPONSES
SAW	Large	0.50	* 21.10	* 0	* 3	* 2	* 4	* 100%	* 0%	* (10% + 0%)	* 436	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 1	* 3	* 4	* 100%	* 0%	* (0% + 0%)	* 444	= 0	= 0	0
Plasma Cutting	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	* (10% + 0%)	* 109	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	* (0% + 0%)	* 111	= 0	= 0	0
Plasma Welding	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	* (10% + 0%)	* 109	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	* (0% + 0%)	* 111	= 0	= 0	0
Resistance Welding	Large	0.50	* 21.10	* 1	* 3	* 2	* 4	* 100%	* 0%	* (10% + 0%)	* 654	= 0	= 0	0
	Small	1.00	* 21.10	* 1	* 1	* 3	* 4	* 100%	* 0%	* (0% + 0%)	* 666	= 0	= 0	0
MARITIME														
SMAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 38	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 22	= 0	= 0	0
GMAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 55	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 31	= 0	= 0	0
TIG	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 13	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 7	= 0	= 0	0
FCAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 258	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 146	= 0	= 0	0
Plasma Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 8	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 5	= 0	= 0	0
Plasma Welding	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 3	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 2	= 0	= 0	0
Oxy-fuel Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 8	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 5	= 0	= 0	0
Air Carbon Arc Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 3	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 2	= 0	= 0	0
Electric Torch Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 1	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 0	= 0	= 0	0
Thermal Spray Tungsten Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 1	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 0	= 0	= 0	0
SAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (50% + 0%)	* 34	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 2	* 1	* 4	* 100%	* 0%	* (10% + 0%)	* 19	= 0	= 0	0
CONSTRUCTION														
SMAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (5% + 0%)	* 312	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 1	* 1	* 4	* 100%	* 0%	* (0% + 0%)	* 2357	= 0	= 0	0
Plasma Cutting	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (5% + 0%)	* 4	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 1	* 1	* 4	* 100%	* 0%	* (0% + 0%)	* 31	= 0	= 0	0
GMAW	Large	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (5% + 0%)	* 62	= 0	= 0	0
	Small	1.00	* 21.10	* 0	* 1	* 1	* 4	* 100%	* 0%	* (0% + 0%)	* 471	= 0	= 0	0
Brazing	State	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (5% + 0%)	* 31	= 0	= 0	0
	Local	1.00	* 21.10	* 0	* 1	* 1	* 4	* 100%	* 0%	* (0% + 0%)	* 236	= 0	= 0	0
Metallizing	State	0.50	* 21.10	* 0	* 3	* 1	* 4	* 100%	* 0%	* (5% + 0%)	* 6	= 0	= 0	0
	Local	1.00	* 21.10	* 0	* 1	* 1	* 4	* 100%	* 0%	* (0% + 0%)	* 47	= 0	= 0	0
SECTOR 3: PAINTING														
AEROSPACE	Large	0.50	* 26.63	* 1	* 3	* 3	* 4	* 100%	* 28%	* (75% + 0%)	* 54	= 144,753	= 5,436	390
	Small	1.00	* 26.63	* 1	* 1	* 3	* 4	* 100%	* 9%	* (25% + 0%)	* 68	= 13,020	= 489	18
AUTOBODY	Large	0.50	* 26.63	* 0	* 1	* 1	* 4	* 100%	* 5%	* 75% + 0%	* 360	= 0	= 0	54
	Small	1.00	* 26.63	* 2	* 1	* 1	* 4	* 100%	* 5%	* 25% + 0%	* 1585	= 112,401	= 4,221	159
COIL COATING	Large	0.50	* 26.63	* 0	* 2	* 3	* 4	* 100%	* 8%	* 75% + 0%	* 110	= 0	= 0	150
	Small	1.00	* 26.63	* 0	* 1	* 3	* 4	* 100%	* 8%	* 25% + 0%	* 20	= 0	= 0	0
MARITIME	Large	0.50	* 26.63	* 1	* 3	* 1	* 4	* 100%	* 36%	* 90% + 0%	* 321	= 442,531	= 16,618	1,248
	Small	1.00	* 26.63	* 1	* 1	* 1	* 4	* 100%	* 36%	* 10% + 0%	* 555	= 56,676	= 2,128	80
CONSTRUCTION	Large	0.50	* 26.63	* 1	* 3	* 1	* 4	* 100%	* 22%	* 75% + 0%	* 1056	= 741,381	= 27,840	2,056
	Small	1.00	* 26.63	* 1	* 1	* 1	* 4	* 100%	* 22%	* 50% + 0%	* 5614	= 1,751,731	= 65,780	2,470
GOVERNMENT	Large	0.50	* 26.63	* 1	* 3	* 1	* 4	* 100%	* 12%	* 75% + 0%	* 26	= 9,957	= 374	28
	Small	1.00	* 26.63	* 1	* 1	* 1	* 4	* 100%	* 12%	* 75% + 0%	* 1439	= 367,372	= 13,795	518

Table 6
 Quarterly Exposure Monitoring - Employee Time and Cost

		ADMIN TIME	NONSUPERVAC	JOB REL	SHIFTS	# SAMPS	% NOT QUART	% ABOVE PEL	% IN HOUSE	% LEARN	# PLANTS	COSTS	HOURS	RESPONSES
SECTOR 4. Producers of Chromates														
ALL	Large	0.50	31.15	0	3	3	4	100%	0%	*(0% + 0%)	* 2	= 0	= 0	0
	Small	1.00	31.15	0	1	3	4	100%	0%	*(0% + 0%)	* 0	= 0	= 0	0
SECTOR 5. Chromate Pigment Producers														
ALL	Large	0.50	30.36	1	2	3	4	100%	77%	*(0% + 0%)	* 2	= 0	= 0	0
	Small	1.00	30.36	0	1	3	4	100%	0%	*(0% + 0%)	* 1	= 0	= 0	0
SECTOR 6. CCA Producers														
ALL	Large	0.50	25.72	0	3	3	4	100%	0%	*(0% + 0%)	* 3	= 0	= 0	0
	Small	1.00	25.72	0	3	0	4	100%	0%	*(0% + 0%)	* 0	= 0	= 0	0
SECTOR 7. Chromium Catalyst Producers														
ALL	Large	0.50	31.15	0	3	3	4	100%	0%	*(80% + 0%)	* 5	= 0	= 0	0
	Small	1.00	31.15	0	1	3	4	100%	0%	*(0% + 0%)	* 0	= 0	= 0	0
SECTOR 8. Paint and Coating Producers														
ALL	Large	0.50	23.20	0	2	3	4	100%	0%	*(25% + 75%)	* 84	= 0	= 0	0
	Small	1.00	23.20	0	2	3	4	100%	0%	*(25% + 75%)	* 132	= 0	= 0	0
SECTOR 9. Printing Ink Producers														
ALL	Large	0.50	23.24	0	1	9	4	100%	0%	*(10% + 0%)	* 3	= 0	= 0	0
	Small	0.50	23.24	0	1	5	4	100%	0%	*(10% + 0%)	* 10	= 0	= 0	0
SECTOR 10. Plastic Colorant Producers and Users														
ALL	Large	0.50	25.76	3	3	3	4	100%	36%	*(0% + 0%)	* 92	= 0	= 0	0
	Small	1.00	25.76	5	1	3	4	100%	36%	*(0% + 0%)	* 45	= 0	= 0	0
SECTOR 11. Plating Solution Producers														
ALL	Large	0.50	23.12	0	1	3	4	100%	0%	*(20% + 0%)	* 6	= 0	= 0	0
	Small	1.00	23.12	0	1	3	4	100%	0%	*(25% + 0%)	* 4	= 0	= 0	0
SECTOR 13. Chromium Metal Producers														
ALL	Large	0.50	31.25	0	3	3	4	100%	0%	*(0% + 0%)	* 1	= 0	= 0	0
	Small	1.00	31.25	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	31.25	0	3	3	4	100%	0%	*(10% + 0%)	* 53	= 0	= 0	0
	Small	1.00	31.25	0	1	3	4	100%	0%	*(10% + 0%)	* 17	= 0	= 0	0
Carbon Steel	Large	0.50	31.25	0	3	3	4	100%	0%	*(10% + 0%)	* 159	= 0	= 0	0
	Small	1.00	31.25	0	1	1	4	100%	0%	*(10% + 0%)	* 50	= 0	= 0	0
SECTOR 14B. Forging Industry														
Reshaping	Large	0.50	31.25	0	1	3	4	100%	63%	*(10% + 0%)	* 52	= 0	= 0	39
	Small	1.00	31.25	0	1	3	4	100%	63%	*(10% + 0%)	* 49	= 0	= 0	0
SECTOR 15. Iron and Steel Foundries														
ALL	Large	0.50	22.8	0	3	5	4	100%	0%	*(10% + 0%)	* 198	= 0	= 0	0
	Small	1	22.8	0	1	5	4	100%	0%	*(10% + 0%)	* 144	= 0	= 0	0
SECTOR 17. Chromium Dye Producers														
ALL	Large	0.50	30.36	7	1	21	4	100%	62%	*(0% + 0%)	* 3	= 0	= 0	0
	Small	1	30.36	5	1	7	4	100%	62%	*(0% + 0%)	* 1	= 0	= 0	0
SECTOR 18. Chromium Sulfate Producers														
ALL	Large	0.50	33.42	0	1	3	4	100%	0%	*(0% + 0%)	* 0	= 0	= 0	0
	Small	0.50	33.42	0	1	3	4	100%	0%	*(0% + 0%)	* 5	= 0	= 0	0

Table 6
 Quarterly Exposure Monitoring - Employee Time and Cost

		ADJTIME	NONSUPERVAC	JOBPEL	SHIFTS	#SAMPS	%NOTQUART	%ABOVEPEL	%INHOUSE	%LEARN	#PLANTS	COSTS	HOURS	RESPONSES
SECTOR 19: Chemical Distributors														
ALL	Large	0.50	24.1	0	1	3	4	100%	0%	*(0% + 0%)	209	= 0	= 0	0
	Small	0.50	24.1	0	1	3	4	100%	0%	*(0% + 0%)	1,577	= 0	= 0	0
SECTOR 20: Textile Dyeing														
ALL	Large	0.50	16.08	0	3	3	4	100%	0%	*(10% + 0%)	374	= 0	= 0	0
	Small	0.50	16.08	0	1	2	4	100%	0%	*(10% + 0%)	759	= 0	= 0	0
SECTOR 21: Colored Glass Producers														
ALL	Large	0.50	23.25	0	3	12	4	100%	0%	*(10% + 0%)	6	= 0	= 0	0
	Small	1.00	23.25	0	1	4	4	100%	0%	*(10% + 0%)	19	= 0	= 0	0
Fiber, Flat, Container Glass	Large	0.50	23.25	1	1	1	4	100%	20%	*(10% + 0%)	86	= 1,860	= 80	7
	Small	1.00	23.25	1	1	1	4	100%	0%	*(10% + 0%)	5	= 0	= 0	0
SECTOR 22: Printing														
ALL	Large	0.50	16.79	0	3	2	4	100%	0%	*(10% + 0%)	100	= 0	= 0	0
	Small	0.50	16.79	0	1	2	4	100%	0%	*(10% + 0%)	400	= 0	= 0	0
SECTOR 24: Chromium Catalyst Users														
Catalyst Users	Large	0.50	26.18	0	3	3	4	100%	0%	*(10% + 0%)	163	= 0	= 0	0
	Small	1.00	26.18	0	1	3	4	100%	0%	*(10% + 0%)	0	= 0	= 0	0
Chromium Catalyst Service Companies	Large	0.50	26.18	0	3	3	4	100%	0%	*(10% + 0%)	21	= 0	= 0	0
	Small	1.00	26.18	0	1	3	4	100%	0%	*(10% + 0%)	4	= 0	= 0	0
SECTOR 25: Refractory Brick Producers														
ALL	Large	0.50	20.65	0	1	15	4	100%	0%	*(10% + 0%)	6	= 0	= 0	0
	Small	0.50	20.65	0	1	0	4	100%	0%	*(10% + 0%)	0	= 0	= 0	0
SECTOR 26: Woodworking														
General Industry	Large	0.50	25.86	0	1	2	4	100%	0%	*(0% + 0%)	187	= 0	= 0	0
	Small	1.00	25.86	0	1	2	4	100%	0%	*(0% + 0%)	100	= 0	= 0	0
Maritime	Large	0.50	25.86	0	1	1	4	100%	0%	*(0% + 0%)	42	= 0	= 0	0
	Small	1.00	25.86	0	1	1	4	100%	0%	*(0% + 0%)	37	= 0	= 0	0
Construction	Large	0.50	25.86	0	1	1	4	100%	22%	*(0% + 0%)	1489	= 0	= 0	0
	Small	1.00	25.86	0	1	1	4	100%	22%	*(0% + 0%)	5,960	= 0	= 0	0
Government	STATE	0.50	25.86	0	1	1	4	100%	22%	*(0% + 0%)	26	= 0	= 0	0
	LOCAL	1.00	25.86	0	1	1	4	100%	22%	*(0% + 0%)	94	= 0	= 0	0
SECTOR 27: Solid Waste Incineration														
GENERAL INDUSTRY	Large	0.50	21.93	0	3	15	4	100%	0%	*(10% * 0%)	55	= 0	= 0	0
	Small	1.00	21.93	0	1	3	4	100%	0%	*(10% * 0%)	66	= 0	= 0	0
GOVERNMENT	STATE	0.50	21.93	0	3	15	4	100%	0%	*(10% * 0%)	0	= 0	= 0	0
	LOCAL	1.00	21.93	0	1	3	4	100%	0%	*(10% * 0%)	33	= 0	= 0	0
SECTOR 30: Superalloy Producers and Users														
ALL	Large	0.50	22.49	0	3	3	4	100%	0%	*(0% + 0%)	18	= 0	= 0	0
	Small	1.00	22.49	0	3	3	4	100%	0%	*(0% + 0%)	0	= 0	= 0	0
SECTOR 31: Construction														
Industrial Rehabilitation	Large	0.50	25.88	0	1	1	4	100%	0%	*(0% + 0%)	62	= 0	= 0	0
	Small	1.00	25.88	0	1	1	4	100%	0%	*(0% + 0%)	221	= 0	= 0	0
	State	0.50	25.88	0	1	1	4	100%	0%	*(0% + 0%)	18	= 0	= 0	0
	Local	1.00	25.88	0	1	1	4	100%	0%	*(0% + 0%)	83	= 0	= 0	0
Hazardous Waste-site Work	Large	0.50	25.88	0	1	1	4	100%	0%	*(10% + 0%)	49	= 0	= 0	0
	Small	1.00	25.88	0	1	1	4	100%	0%	*(10% + 0%)	161	= 0	= 0	0
	State	0.50	25.88	0	1	1	4	100%	0%	*(10% + 0%)	1	= 0	= 0	0
	Local	1.00	25.88	0	1	1	4	100%	0%	*(10% + 0%)	226	= 0	= 0	0
Refractory Brick Restoration	Large	0.50	25.88	0	1	1	4	100%	60%	*(10% + 0%)	54	= 0	= 0	13
	Small	1.00	25.88	0	1	1	4	100%	60%	*(10% + 0%)	166	= 0	= 0	0
Total												4,267,045	166,399	9,836

Table 7
Quarterly Exposure Monitoring (Contractor Cost)

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

Variable

- QUARTCONTIME = 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

	QUARTCONTIME	CONTCOST	QUARTERLY	%NOTQUART	%ABOVEPEL	%CONT	PLANTS	COSTS
Sector 1: Electroplating								
Hard Chrome	0	\$ 90.00	4	100%	(0.00% * 100%)		1,017	= 0
Job Shop Chrome Plater	0	\$ 90.00	4	100%	(0.00% * 100%)		1,914	= 0
Captive Shop Chrome	12	\$ 90.00	4	100%	(0.00% * 100%)		922	= 0
Job Shop Plater	0	\$ 90.00	4	100%	(0.00% * 100%)		992	= 0
Captive Shop Plater	0	\$ 90.00	4	100%	(0.00% * 100%)		490	= 0
Operator	12	\$ 90.00	4	100%	(0.00% * 100%)		1914	= 0
Sector 2: Welding								
SMAW	12	\$ 90.00	4	100%	(4.85% * 90%)		3,659	= 689,970
GMAW	12	\$ 90.00	4	100%	(0.37% * 90%)		2,684	= 38,611
TIG	12	\$ 90.00	4	100%	(0.38% * 100%)		3,007	= 49,363
SAW	0	\$ 90.00	4	100%	(0.00% * 90%)		813	= 0
Plasma Cutting	12	\$ 90.00	4	100%	(0.00% * 100%)		911	= 0
Plasma Welding	12	\$ 90.00	4	100%	(0.00% * 90%)		325	= 0
Resistance Welding	0	\$ 90.00	4	100%	(0.00% * 100%)		364	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		81	= 0
	12	\$ 90.00	4	100%	(0.00% * 100%)		91	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		81	= 0
	12	\$ 90.00	4	100%	(0.00% * 100%)		91	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		488	= 0
	12	\$ 90.00	4	100%	(0.00% * 100%)		547	= 0
MARITIME								
SMAW	12	\$ 90.00	4	100%	(0.00% * 50%)		18	= 0
GMAW	12	\$ 90.00	4	100%	(0.00% * 90%)		10	= 0
TIG	12	\$ 90.00	4	100%	(0.00% * 50%)		25	= 0
FCAW	12	\$ 90.00	4	100%	(0.00% * 90%)		14	= 0
Plasma Cutting	12	\$ 90.00	4	100%	(0.00% * 50%)		6	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		3	= 0
	12	\$ 90.00	4	100%	(0.00% * 50%)		120	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		68	= 0
	12	\$ 90.00	4	100%	(0.00% * 50%)		4	= 0
	12	\$ 90.00	4	100%	(0.00% * 90%)		2	= 0

Table 7
Quarterly Exposure Monitoring (Contractor Cost)

Plasma Welding	(12 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 2 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 1 = 0
Oxy-fuel Cutting	(12 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 4 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 2 = 0
Air Carbon Arc Cutting	(12 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 2 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 1 = 0
Electric Torch Cutting	(0 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 0 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 0 = 0
Thermal Spray Tungsten Cutting	(0 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 0 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 0 = 0
SAW	(0 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 16 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 9 = 0
CONSTRUCTION	
SMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 208 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 1665 = 0
Plasma Cutting	(0 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 3 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 22 = 0
GMAW	(0 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 42 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 333 = 0
Brazing	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 21 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 167 = 0
Metallizing	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 4 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 33 = 0
GOVERNMENT	
SMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 20 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 611 = 0
Plasma Cutting	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 0 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 8 = 0
GMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 4 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 122 = 0
Brazing	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 2 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 61 = 0
Metallizing	(12 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 1 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 12 = 0
Sector 2: Mild Steel Welding	
SMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 4,906 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 4,995 = 0
GMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 3,598 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 3,663 = 0
TIG	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 1,090 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 1,110 = 0

Table 7
Quarterly Exposure Monitoring (Contractor Cost)

SAW	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 436 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 444 = 0
Plasma Cutting	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 109 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 111 = 0
Plasma Welding	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 109 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 111 = 0
Resistance Welding	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 654 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 666 = 0
MARITIME	
SMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 38 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 22 = 0
GMAW	(12 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 55 = 0
	(12 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 31 = 0
TIG	(0 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 13 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 7 = 0
FCAW	(0 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 258 = 0
	(0 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 146 = 0
Plasma Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 8 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 5 = 0
Plasma Welding	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 3 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 2 = 0
Oxy-fuel Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 8 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 5 = 0
Air Carbon Arc Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 3 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 2 = 0
Electric Torch Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 1 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 0 = 0
Thermal Spray Tungsten Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 1 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 0 = 0
SAW	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 50%) * 34 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 19 = 0
CONSTRUCTION	
SMAW	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 312 = 0
	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 2357 = 0
Plasma Cutting	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 4 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 31 = 0
GMAW	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 62 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 471 = 0
Brazing	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 31 = 0
	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 236 = 0
Metallizing	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 95%) * 6 = 0
	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 47 = 0

Table 7
Quarterly Exposure Monitoring (Contractor Cost)

SECTOR 3: PAINTING	
AEROSPACE	(12.00 * \$ 90.00 * 4 * 100% * (28.00% * 25%) * 54 = 16,330 (12.00 * \$ 90.00 * 4 * 100% * (9.00% * 75%) * 68 = 19,829
AUTOBODY	(12.00 * \$ 90.00 * 4 * 100% * (5.00% * 25%) * 360 = 19,440 (12.00 * \$ 90.00 * 4 * 100% * (5.00% * 75%) * 1585 = 256,770
MARITIME	(12.00 * \$ 90.00 * 4 * 100% * (36.00% * 10%) * 321 = 49,922 (12.00 * \$ 90.00 * 4 * 100% * (36.00% * 90%) * 555 = 776,822
COIL COATING	(12.00 * \$ 90.00 * 4 * 100% * (8.00% * 25%) * 110 = 9,504 (12.00 * \$ 90.00 * 4 * 100% * (8.00% * 75%) * 20 = 5,184
CONSTRUCTION	(12.00 * \$ 90.00 * 4 * 100% * (22.00% * 25%) * 1056 = 250,906 (12.00 * \$ 90.00 * 4 * 100% * (22.00% * 50%) * 5614 = 2,667,773
GOVERNMENT	(12.00 * \$ 90.00 * 4 * 100% * (12.00% * 25%) * 26 = 3,370 (12.00 * \$ 90.00 * 4 * 100% * (12.00% * 25%) * 1439 = 186,494
SECTOR 4: Producers of Chromates	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 2 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 0%) * 0 = 0
SECTOR 5: Chromate Pigment Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (77.00% * 100%) * 2 = 6,653 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 1 = 0
SECTOR 6: CCA Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 3 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 0%) * 0 = 0
SECTOR 7: Chromium Catalyst Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 20%) * 5 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 0%) * 0 = 0
SECTOR 8: Paint and Coating Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 75%) * 84 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 75%) * 132 = 0
SECTOR 9: Printing Ink Producers	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 3 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 10 = 0
SECTOR 10: Plastic Colorant Producers and Users	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (36.00% * 100%) * 92 = 143,078 (12.00 * \$ 90.00 * 4 * 100% * (36.00% * 100%) * 45 = 69,984
SECTOR 11: Plating Mixture Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 80%) * 6 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 75%) * 4 = 0
SECTOR 13: Chromium Metal Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%) * 1 = 0 (12.00 * \$ 90.00 * 4 * 0% * (0.00% * 0%) * 0 = 0
SECTOR 14: Iron and Steel Mills	
ALLOY AND STAINLESS STEEL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 53 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 17 = 0
CARBON STEEL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 159 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 50 = 0
SECTOR 14B: FORGING INDUSTRY	
RESHAPING	(0.00 * \$ 90.00 * 4 * 100% * (63.00% * 90%) * 52 = 0 (0.00 * \$ 90.00 * 4 * 100% * (63.00% * 90%) * 49 = 0
SECTOR 15: Iron and Steel Foundries	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 198 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%) * 144 = 0
SECTOR 17: Chromium Dye Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (62.00% * 100%) * 3 = 8,035 (12.00 * \$ 90.00 * 4 * 100% * (62.00% * 100%) * 1 = 2,678

Table 7
Quarterly Exposure Monitoring (Contractor Cost)

SECTOR 18: Chromium Sulfate Producers	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 0%)) * 0 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 5 = 0
SECTOR 19: Chemical Distributors	
ALL	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 209 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 1,577 = 0
SECTOR 20: Textile Dyeing	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 374 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 759 = 0
SECTOR 21: Colored Glass Producers	
General Industry	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 6 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 19 = 0
Fiber, Flat and Container Glass	(12.00 * \$ 90.00 * 4 * 100% * (20.00% * 90%)) * 86 = 66,874 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 5 = 0
SECTOR 22: Printing	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 100 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 400 = 0
SECTOR 24: Chromium Catalyst Users	
CATALYST USER	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 163 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 0 = 0
CATALYST SERVICE COMPANIES	(12.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 21 = 0 (12.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 4 = 0
SECTOR 25: Refractory Brick Producers	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 6 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 0 = 0
SECTOR 26: Woodworking	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 187 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 100 = 0
MARITIME	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 42 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 37 = 0
CONSTRUCTION	(0.00 * \$ 90.00 * 4 * 100% * (22.00% * 100%)) * 1489 = 0 (0.00 * \$ 90.00 * 4 * 100% * (22.00% * 100%)) * 5960 = 0
GOVERNMENT	(0.00 * \$ 90.00 * 4 * 100% * (22.00% * 100%)) * 26 = 0 (0.00 * \$ 90.00 * 4 * 100% * (22.00% * 100%)) * 94 = 0
SECTOR 27: Solid Waste Incineration	
GENERAL INDUSTRY	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 55 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 66 = 0
GOVERNMENT	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 25%)) * 0 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 33 = 0
SECTOR 30: Superalloy Producers and Users	
ALL	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 18 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 0%)) * 0 = 0
SECTOR 31: Construction	
Industrial Rehabilitation	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 62 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 221 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 18 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 100%)) * 83 = 0
Hazardous Waste-site Work	(0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 49 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 161 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 1 = 0 (0.00 * \$ 90.00 * 4 * 100% * (0.00% * 90%)) * 226 = 0
Refractory Brick Restoration	(0.00 * \$ 90.00 * 4 * 100% * (60.00% * 90%)) * 54 = 0 (0.00 * \$ 90.00 * 4 * 100% * (60.00% * 90%)) * 166 = 0

6,194,850