

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
<b>Sector 1: Electroplating</b>									
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
<b>Sector 2: Welding</b>									
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	# SAMP/S	# INIT	% INIT/ADD	# PLANTS	COSTS
<b>MARITIME</b>									
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
<b>CONSTRUCTION</b>									
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
<b>GOVERNMENT</b>									
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	CA	SHIFTS	#	SAMPS	#	INIT.	%	INITIADD	#	PLANTS	COSTS			
<b>SECTOR 18: Chromium Sulfate Producers</b>																		
ALL	Large	(	\$60	*	0	*	1	*	3	*	2	*	0%	)	* 0 =	\$0		
	Small	(	\$60	*	2	*	1	*	3	*	2	*	100%	)	* 0 =	\$180		
<b>SECTOR 19: Chemical Distributors</b>																		
ALL	Large	(	\$60	*	1	*	1	*	3	*	2	*	75%	)	* 10 =	\$2,822		
	Small	(	\$60	*	1	*	1	*	3	*	2	*	75%	)	* 79 =	\$21,290		
<b>SECTOR 20: Textile Dyeing</b>																		
ALL	Large	(	\$60	*	3	*	3	*	3	*	2	*	75%	)	* 19 =	\$45,441		
	Small	(	\$60	*	2	*	1	*	2	*	2	*	75%	)	* 38 =	\$13,662		
<b>SECTOR 21: Colored Glass Producers</b>																		
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		
<b>SECTOR 22: Printing</b>																		
ALL	Large	(	\$60	*	3	*	3	*	2	*	2	*	75%	)	* 5 =	\$8,100		
	Small	(	\$60	*	2	*	1	*	2	*	2	*	75%	)	* 20 =	\$7,200		
<b>SECTOR 24: Chromium Catalyst Users</b>																		
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		
<b>SECTOR 25: Refractory Brick Producers</b>																		
ALL	Large	(	\$60	*	9	*	1	*	15	*	2	*	75%	)	* 0 =	\$3,645		
	Small	(	\$60	*	0	*	1	*	0	*	2	*	75%	)	* 0 =	\$0		
<b>SECTOR 26: Woodworking</b>																		
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		
<b>SECTOR 27: Solid Waste Incineration</b>																		
General Industry	Large	(	\$60	*	6	*	3	*	3	*	15	*	2	*	75%	)	* 3 =	\$66,825
	Small	(	\$60	*	6	*	1	*	3	*	2	*	75%	)	* 3 =	\$5,346		
Government	State	(	\$60	*	0	*	3	*	3	*	15	*	2	*	75%	)	* 0 =	\$0
	Local	(	\$60	*	6	*	1	*	3	*	2	*	75%	)	* 2 =	\$2,673		
<b>SECTOR 30: Superalloy Producers and Users</b>																		
ALL	Large	(	\$60	*	12	*	3	*	3	*	2	*	75%	)	* 1 =	\$8,748		
	Small	(	\$60	*	0	*	3	*	3	*	2	*	0%	)	* 0 =	\$0		
<b>SECTOR 31: Construction</b>																		
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
<b>Sector 1: Electroplating</b>															
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
<b>Sector 2: Welding</b>															
<b>General Industry</b>															
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
<b>MARITIME</b>															
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

Table 3 -  
Scheduled Monitoring Option Semi-Annual Exposure Monitoring

		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 Weld		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						



Table 3 -  
Scheduled Monitoring Option Semi-Annual Exposure Monitoring

CONSTRUCTION									
SMAW	Large	( 0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * ( 5% + 0% ) * 312 ) =	\$0	0	0				
	Small	( 1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * ( 0% + 0% ) * 2357 ) =	\$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% ) * 31 ) =	\$0	0	0				
GMAW	Large	( 0.50 * 21.10 * 0 * 3 * 1 * 2 * 2 * 100% * 0.00% * ( 5% + 0% ) * 62 ) =	\$0	0	0				
	Small	( 1.00 * 21.10 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * ( 0% + 0% ) * 471 ) =	\$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% ) * 236 ) =	\$0	0	0				
Metallizing	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				
SECTOR 3: PAINTING									
AEROSPACE	Large	( 0.50 * 26.63 * 1 * 3 * 3 * 2 * 2 * 100% * 28.00% * ( 75% + 0% ) * 54 ) =	\$2,718	102	204				
	Small	( 1.00 * 26.63 * 1 * 1 * 3 * 2 * 2 * 100% * 9.00% * ( 25% + 0% ) * 68 ) =	\$244	9	9				
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 * 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				
	Small	( 1.00 * 26.63 * 1 * 1 * 3 * 2 * 2 * 100% * 8.00% * ( 25% + 0% ) * 20 ) =	\$64	2	2				
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 * 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				
	Small	( 1.00 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 22.00% * ( 50% + 0% ) * 5614 ) =	\$32,890	1,235	1235				
Government	State	( 0.50 * 26.63 * 1 * 3 * 1 * 2 * 2 * 100% * 12.00% * ( 75% + 0% ) * 26 ) =	\$187	7	14				
	Local	( 1.00 * 26.63 * 1 * 1 * 1 * 2 * 2 * 100% * 12.00% * ( 75% + 0% ) * 1439 ) =	\$6,898	259	259				
SECTOR 4: Producers of Chromates									
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				
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				
	Small	( 1.00 * 30.36 * 1 * 1 * 3 * 2 * 2 * 100% * 50.00% * ( 0% + 0% ) * 1 ) =	\$0	0	0				
SECTOR 6: CCA Producers									
ALL	Large	( 0.50 * 25.72 * 1 * 3 * 3 * 2 * 2 * 100% * 33.00% * ( 0% + 0% ) * 3 ) =	\$0	0	0				
	Small	( 1.00 * 25.72 * 0 * 3 * 0 * 2 * 2 * 100% * 0.00% * ( 0% + 0% ) * 0 ) =	\$0	0	0				
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				
	Small	( 1.00 * 31.15 * 0 * 1 * 3 * 2 * 2 * 100% * 0.00% * ( 0% + 0% ) * 0 ) =	\$0	0	0				
SECTOR 8: Paint and Coating Producers									
ALL	Large	( 0.50 * 23.20 * 1 * 2 * 3 * 2 * 2 * 100% * 13.00% * ( 25% + 0% ) * 84 ) =	\$380	16	33				
	Small	( 1.00 * 23.20 * 1 * 2 * 3 * 2 * 2 * 100% * 13.00% * ( 25% + 0% ) * 132 ) =	\$1,194	51	51				
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				
	Small	( 0.50 * 23.24 * 2 * 1 * 5 * 2 * 2 * 100% * 69.00% * ( 10% + 0% ) * 10 ) =	\$160	7	14				
SECTOR 10: Plastic Colorant Producers and Users									
ALL	Large	( 0.50 * 25.76 * 2 * 3 * 3 * 2 * 2 * 100% * 51.00% * ( 0 + 0 ) * 92 ) =	\$0	0	0				
	Small	( 1.00 * 25.76 * 2 * 1 * 3 * 2 * 2 * 100% * 51.00% * ( 0 + 0 ) * 45 ) =	\$0	0	0				
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				
	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				
	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				
	Small	( 1.00 * 31.25 * 1 * 1 * 3 * 2 * 2 * 100% * 38.00% * ( 10% + 0% ) * 17 ) =	\$121	4	4				
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 * 0 * 1 * 1 * 2 * 2 * 100% * 0.00% * ( 10% + 0% ) * 50 ) =	\$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				
	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
<b>Sector 1: Electroplating</b>									
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					
<b>Sector 2: Welding</b>									
<b>GENERAL INDUSTRY</b>									
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					
<b>MARITIME</b>									
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
<b>CONSTRUCTION</b>									
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				
<b>GOVERNMENT</b>									
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				
<b>Sector 2: Mild Steel Welding</b>									
<b>GENERAL INDUSTRY</b>									
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				
<b>MARITIME</b>									
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
<b>CONSTRUCTION</b>									
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
<b>SECTOR 3: PAINTING</b>									
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
<b>SECTOR 4: Producers of Chromates</b>									
ALL	Large	( 12 * \$ 90.00 * 2 * 100% * 45.00% * 100% )						2	= 1,944
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 0% )						0	= 0
<b>SECTOR 5: Chromate Pigment Producers</b>									
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
<b>SECTOR 6: CoCA Producers</b>									
ALL	Large	( 12 * \$ 90.00 * 2 * 100% * 33.00% * 100% )						3	= 2,138
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 0% )						0	= 0
<b>SECTOR 7: Chromium Catalyst Producers</b>									
ALL	Large	( 20 * \$ 90.00 * 2 * 100% * 100% * 20% )						5	= 3,600
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 0% )						0	= 0
<b>SECTOR 8: Paint and Coating Producers</b>									
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
<b>SECTOR 9: Printing Ink Producers</b>									
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
<b>SECTOR 10: Plastic Colorant Producers and Users</b>									
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
<b>SECTOR 11: Plating Mixture Producers</b>									
ALL	Large	( 12 * \$ 90.00 * 2 * 100% * 100% * 80% )						6	= 10,368
	Small	( 12 * \$ 90.00 * 2 * 100% * 100% * 75% )						4	= 6,480
<b>SECTOR 13: Chromium Metal Producers</b>									
ALL	Large	( 12 * \$ 90.00 * 2 * 100% * 100% * 100% )						1	= 2,160
	Small	( 0 * \$ 90.00 * 2 * 0% * 0.00% * 0% )						0	= 0
<b>SECTOR 14: Iron and Steel Mills</b>									
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
<b>SECTOR 14B: Forging Industry</b>									
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
<b>SECTOR 15: Iron and Steel Foundries</b>									
ALL	Large	( 20 * \$ 90.00 * 2 * 100% * 100% * 90% )						198	= 641,520
	Small	( 12 * \$ 90.00 * 2 * 100% * 100% * 90% )						144	= 279,936
<b>SECTOR 17: Chromium Dye Producers</b>									
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
<b>SECTOR 18: Chromium Sulfate Producers</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 0% )	*	0	=	0			
	Small	( 12 * \$ 90.00 * 2 * 100% * 27.00% * 100% )	*	5	=	2,916			
<b>SECTOR 19: Chemical Distributors</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 100% )	*	209	=	0			
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 100% )	*	1,577	=	0			
<b>SECTOR 20: Textile Dyeing</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	374	=	0			
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	759	=	0			
<b>SECTOR 21: Colored Glass Producers</b>									
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			
<b>SECTOR 22: Printing</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	100	=	0			
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	400	=	0			
<b>SECTOR 24: Chromium Catalyst Users</b>									
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			
<b>SECTOR 25: Refractory Brick Producers</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	6	=	0			
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 90% )	*	0	=	0			
<b>SECTOR 26: Woodworking</b>									
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			
<b>SECTOR 27: Solid Waste Incineration</b>									
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			
<b>SECTOR 30: Superalloy Producers and Users</b>									
ALL	Large	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 100% )	*	18	=	0			
	Small	( 0 * \$ 90.00 * 2 * 100% * 0.00% * 0% )	*	0	=	0			
<b>SECTOR 31: Construction</b>									
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			
<b>Total</b>									<b>12,994,829</b>

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
<b>Sector 1: Electroplating</b>										
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
<b>Sector 2: Welding</b>										
<b>General Industry</b>										
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
<b>Maritime</b>										
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
<b>CONSTRUCTION</b>										
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						
<b>GOVERNMENT</b>										
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						
<b>Sector 2. Mild Steel Welding</b>										
<b>GENERAL INDUSTRY</b>										
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						
<b>Maritime</b>										
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				
<b>CONSTRUCTION</b>										
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				
<b>SECTOR 3: PAINTING</b>										
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				
<b>SECTOR 4: Producers of Chromates</b>										
ALL	Large	( \$60 * 3 * 3 * 3 * 2 * 100% * 45% )	*	2	=	2,916				
	Small	( \$60 * 0 * 1 * 3 * 2 * 100% * 0% )	*	0	=	0				
<b>SECTOR 5: Chromate Pigment Producers</b>										
ALL	Large	( \$60 * 5 * 2 * 3 * 2 * 100% * 71% )	*	2	=	5,112				
	Small	( \$60 * 1 * 1 * 3 * 2 * 100% * 50% )	*	1	=	180				
<b>SECTOR 6: CCA Producers</b>										
ALL	Large	( \$60 * 1 * 3 * 3 * 2 * 100% * 33% )	*	3	=	1,069				
	Small	( \$60 * 0 * 3 * 0 * 2 * 100% * 0% )	*	0	=	0				
<b>SECTOR 7: Chromium Catalyst Producers</b>										
ALL	Large	( \$60 * 6 * 3 * 3 * 2 * 100% * 100% )	*	5	=	32,400				
	Small	( \$60 * 0 * 1 * 3 * 2 * 100% * 0% )	*	0	=	0				
<b>SECTOR 8: Paint and Coating Producers</b>										
ALL	Large	( \$60 * 1 * 2 * 3 * 2 * 100% * 13% )	*	84	=	7,862				
	Small	( \$60 * 1 * 2 * 3 * 2 * 100% * 13% )	*	132	=	12,355				
<b>SECTOR 9: Printing Ink Producers</b>										
ALL	Large	( \$60 * 3 * 1 * 9 * 2 * 100% * 69% )	*	3	=	6,707				
	Small	( \$60 * 2 * 1 * 5 * 2 * 100% * 69% )	*	10	=	8,280				
<b>SECTOR 10: Plastic Colorant Producers and Users</b>										
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	LOBAL	SHIFTS	#SAMPS	SEMI	%NOTSEMI	%ABOVEAL	#PLANTS	COST
<b>SECTOR 11: Plating Mixture Producers</b>										
ALL	Large	( \$60 * 1 * 1 * 3 * 2 * 100% * 100% )	*	6	=	2,160				
	Small	( \$60 * 1 * 1 * 3 * 2 * 100% * 100% )	*	4	=	1,440				
<b>SECTOR 13: Chromium Metal Producers</b>										
ALL	Large	( \$60 * 2 * 3 * 3 * 2 * 100% * 100% )	*	1	=	2,160				
	Small	( \$60 * 0 * 1 * 1 * 2 * 0% * 0% )	*	0	=	0				
<b>SECTOR 14: Iron and Steel Mills</b>										
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				
<b>14B: Forging Industry</b>										
Forging Industry	Large	( \$60 * 4 * 1 * 3 * 2 * 100% * 63% )	*	52	=	47,174				
	Small	( \$60 * 2 * 1 * 3 * 2 * 100% * 63% )	*	49	=	22,226				
<b>SECTOR 15: Iron and Steel Foundries</b>										
ALL	Large	( \$60 * 6 * 3 * 5 * 2 * 100% * 100% )	*	198	=	2,138,400				
	Small	( \$60 * 5 * 1 * 5 * 2 * 100% * 100% )	*	144	=	432,000				
<b>SECTOR 17: Chromium Dye Producers</b>										
ALL	Large	( \$60 * 6 * 1 * 21 * 2 * 100% * 38% )	*	3	=	17,237				
	Small	( \$60 * 6 * 1 * 7 * 2 * 100% * 38% )	*	1	=	1,915				
<b>SECTOR 18: Chromium Sulfate Producers</b>										
ALL	Large	( \$60 * 0 * 1 * 3 * 2 * 100% * 0% )	*	0	=	0				
	Small	( \$60 * 1 * 1 * 3 * 2 * 100% * 27% )	*	5	=	486				
<b>SECTOR 19: Chemical Distributors</b>										
ALL	Large	( \$60 * 0 * 1 * 3 * 2 * 100% * 0% )	*	209	=	0				
	Small	( \$60 * 0 * 1 * 3 * 2 * 100% * 0% )	*	1,577	=	0				
<b>SECTOR 20: Textile Dyeing</b>										
ALL	Large	( \$60 * 0 * 3 * 3 * 2 * 100% * 0% )	*	374	=	0				
	Small	( \$60 * 0 * 1 * 2 * 2 * 100% * 0% )	*	759	=	0				
<b>SECTOR 21: Colored Glass Producers</b>										
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				
<b>SECTOR 22: Printing</b>										
ALL	Large	( \$60 * 0 * 3 * 2 * 2 * 100% * 0% )	*	100	=	0				
	Small	( \$60 * 0 * 1 * 2 * 2 * 100% * 0% )	*	400	=	0				
<b>SECTOR 24: Chromium Catalyst Users</b>										
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				
<b>SECTOR 25: Refractory Brick Producers</b>										
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
<b>SECTOR 26: Woodworking</b>										
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				
<b>SECTOR 27: Solid Waste Incineration</b>										
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				
<b>SECTOR 30: Superalloy Producers and Users</b>										
ALL	Large	( \$60 * 0 * 3 * 3 * 2 * 100% * 0% )	*	18	=	0				
	Small	( \$60 * 0 * 3 * 3 * 2 * 100% * 0% )	*	0	=	0				
<b>SECTOR 31: Construction</b>										
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				
<b>TOTAL</b>										<b>4,868,764</b>

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
<b>Sector 1: Electroplating</b>														
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
<b>Sector 2: Welding</b>														
<b>GENERAL INDUSTRY</b>														
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
<b>MARITIME</b>														
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	# SHAMPS	% 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 BEL	SHIFTS	# SAMPS	% NOT QUART	% ABOVE PEL	% IN HOUSE	% LEARN	# PLANTS	COSTS	HOURS	RESPONSES
<b>SECTOR 4. Producers of Chromates</b>														
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
<b>SECTOR 5. Chromate Pigment Producers</b>														
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
<b>SECTOR 6. CCA Producers</b>														
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
<b>SECTOR 7. Chromium Catalyst Producers</b>														
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
<b>SECTOR 8. Paint and Coating Producers</b>														
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
<b>SECTOR 9. Printing Ink Producers</b>														
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
<b>SECTOR 10. Plastic Colorant Producers and Users</b>														
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
<b>SECTOR 11. Plating Solution Producers</b>														
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
<b>SECTOR 13. Chromium Metal Producers</b>														
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
<b>SECTOR 14. Iron and Steel Mills</b>														
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
<b>SECTOR 14B. Forging Industry</b>														
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
<b>SECTOR 15. Iron and Steel Foundries</b>														
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
<b>SECTOR 17. Chromium Dye Producers</b>														
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
<b>SECTOR 18. Chromium Sulfate Producers</b>														
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	NONSUPERV	JOBPEL	SHIFTS	#SAMPS	%NOTQUART	%ABOVEPEL	%INHOUSE	%LEARN	#PLANTS	COSTS	HOURS	RESPONSES
<b>SECTOR 19: Chemical Distributors</b>														
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
<b>SECTOR 20: Textile Dyeing</b>														
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
<b>SECTOR 21: Colored Glass Producers</b>														
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
<b>SECTOR 22: Printing</b>														
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
<b>SECTOR 24: Chromium Catalyst Users</b>														
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
<b>SECTOR 25: Refractory Brick Producers</b>														
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
<b>SECTOR 26: Woodworking</b>														
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
<b>SECTOR 27: Solid Waste Incineration</b>														
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
<b>SECTOR 30: Superalloy Producers and Users</b>														
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
<b>SECTOR 31: Construction</b>														
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
<b>Total</b>												<b>4,267,045</b>	<b>166,399</b>	<b>9,836</b>



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
<b>Sector 1: Electroplating</b>								
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	0	\$ 90.00	4	100%	( 0.00% * 100% )		527	= 0
Job Shop Plater	0	\$ 90.00	4	100%	( 0.00% * 100% )		490	= 0
Captive Shop Plater	0	\$ 90.00	4	100%	( 0.00% * 100% )		527	= 0
Operator	0	\$ 90.00	4	100%	( 0.00% * 100% )		1,017	= 0
	12	\$ 90.00	4	100%	( 0.00% * 100% )		1,914	= 0
<b>Sector 2: Welding</b>								
SMAW	12	\$ 90.00	4	100%	( 4.85% * 90% )		3,659	= 689,970
	12	\$ 90.00	4	100%	( 4.84% * 100% )		4,100	= 857,261
GMAW	12	\$ 90.00	4	100%	( 0.37% * 90% )		2,684	= 38,611
	12	\$ 90.00	4	100%	( 0.38% * 100% )		3,007	= 49,363
TIG	12	\$ 90.00	4	100%	( 0.00% * 90% )		813	= 0
	12	\$ 90.00	4	100%	( 0.00% * 100% )		911	= 0
SAW	0	\$ 90.00	4	100%	( 0.00% * 90% )		325	= 0
	0	\$ 90.00	4	100%	( 0.00% * 100% )		364	= 0
Plasma Cutting	12	\$ 90.00	4	100%	( 0.00% * 90% )		81	= 0
	12	\$ 90.00	4	100%	( 0.00% * 100% )		91	= 0
Plasma Welding	12	\$ 90.00	4	100%	( 0.00% * 90% )		81	= 0
	12	\$ 90.00	4	100%	( 0.00% * 100% )		91	= 0
Resistance Welding	12	\$ 90.00	4	100%	( 0.00% * 90% )		488	= 0
	12	\$ 90.00	4	100%	( 0.00% * 100% )		547	= 0
<b>MARITIME</b>								
SMAW	12	\$ 90.00	4	100%	( 0.00% * 50% )		18	= 0
	12	\$ 90.00	4	100%	( 0.00% * 90% )		10	= 0
GMAW	12	\$ 90.00	4	100%	( 0.00% * 50% )		25	= 0
	12	\$ 90.00	4	100%	( 0.00% * 90% )		14	= 0
TIG	12	\$ 90.00	4	100%	( 0.00% * 50% )		6	= 0
	12	\$ 90.00	4	100%	( 0.00% * 90% )		3	= 0
FCAW	12	\$ 90.00	4	100%	( 0.00% * 50% )		120	= 0
	12	\$ 90.00	4	100%	( 0.00% * 90% )		68	= 0
Plasma Cutting	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
<b>CONSTRUCTION</b>	
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
<b>GOVERNMENT</b>	
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
<b>Sector 2: Mild Steel Welding</b>	
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
<b>MARITIME</b>	
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
<b>CONSTRUCTION</b>	
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