

Table 1

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

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

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

Variable

- * **INITCONTIME** = Time, in hours, for an outside contractor (industrial hygiene technician) to conduct the initial monitoring.
- * **CONTCOST** = Cost per hour for an outside industrial hygiene contractor = \$106.73
- * **# INIT** = Number of initial exposure measurements initial plus confirmation.
- * **% INITADD** = Percent of plants that have not satisfied initial monitoring requirement
- * **% LEARN** = Percent of plants that will develop in-house monitoring capability
- * **% CONT** = Percent of plants that will continue to use an outside contractor for monitoring
- * **# PLANTS** = Number of plants represented by the model output * 5% (new employers)

| | | INITCONTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS | Item 13 COSTS |
|---------------------------------|-------|-------------|-----------|--------|-----------|---------------|--------|----------|----------|---------------|
| Sector 1. Electroplating | | | | | | | | | | |
| Hard Chrome | Large | 20 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 930 | 47 | = \$49,648 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 1,751 | 88 | = \$56,062 |
| Job Shop Chrome Plater | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 448 | 22 | = \$14,352 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0 + 100%) | * | 843 | 42 | = \$27,006 |
| Captive Shop Chrome Plater | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 508 | 25 | = \$16,252 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0 + 100%) | * | 955 | 48 | = \$30,591 |
| Job Shop Plater | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 448 | 22 | = \$14,352 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0 + 100%) | * | 843 | 42 | = \$27,006 |
| Captive Shop Plater | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 509 | 25 | = \$16,312 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0 + 100%) | * | 959 | 48 | = \$30,705 |
| Operator | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 930 | 47 | = \$29,789 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0 + 100%) | * | 1,751 | 88 | = \$56,062 |
| Sector 2. Welding | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 90%) | * | 3,560 | 178 | = \$102,579 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 3,989 | 199 | = \$127,713 |
| GMAW | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 90%) | * | 2,611 | 131 | = \$75,245 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 2,925 | 146 | = \$93,667 |
| TIG | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 90%) | * | 791 | 40 | = \$22,792 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 886 | 44 | = \$28,377 |
| SAW | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 90%) | * | 316 | 16 | = \$9,111 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 354 | 18 | = \$11,338 |
| Plasma Cutting | Large | 12 | \$ 106.73 | 2 | 25% | (0% + 90%) | * | 79 | 4 | = \$2,271 |
| | Small | 12 | \$ 106.73 | 2 | 25% | (0% + 100%) | * | 89 | 4 | = \$2,835 |

Table 1

| | | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS | Item 13 COSTS |
|--------------------------------|-------|--------------|----------|--------|-----------|-----------------|--------|----------|----------|---------------|
| Plasma Welding | Large | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 90%) * | | 79 | 4 | = \$2,271 |
| | Small | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 89 | 4 | = \$2,835 |
| Resistance Welding | Large | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 90%) * | | 475 | 24 | = \$13,681 |
| | Small | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 532 | 27 | = \$17,039 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 18 | 1 | = \$841 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 10 | 0 | = \$841 |
| GMAW | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 24 | 1 | = \$1,168 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 14 | 1 | = \$1,177 |
| TIG | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 6 | 0 | = \$280 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 3 | 0 | = \$252 |
| FCAW | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 117 | 6 | = \$5,607 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 66 | 3 | = \$5,719 |
| Plasma Cutting | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 4 | 0 | = \$187 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 2 | 0 | = \$168 |
| Plasma Welding | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 2 | 0 | = \$93 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 1 | 0 | = \$84 |
| Oxy-fuel Cutting | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 4 | 0 | = \$187 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 2 | 0 | = \$168 |
| Air Carbon Arc Cutting | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 2 | 0 | = \$93 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 1 | 0 | = \$84 |
| Electric Torch Cutting | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 0 | 0 | = \$0 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 0 | 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 0 | 0 | = \$0 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 0 | 0 | = \$0 |
| SAW | Large | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 50%) * | | 16 | 1 | = \$748 |
| | Small | 12 * \$ | 106.73 * | 2 * | 75% * | (0% + 90%) * | | 9 | 0 | = \$757 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 95%) * | | 202 | 10 | = \$6,155 |
| | Small | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 1,620 | 81 | = \$51,864 |
| Plasma Cutting | Large | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 95%) * | | 3 | 0 | = \$89 |
| | Small | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 21 | 1 | = \$685 |
| GMAW | Large | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 95%) * | | 41 | 2 | = \$1,243 |
| | Small | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 324 | 16 | = \$10,373 |
| Brazing | State | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 95%) * | | 20 | 1 | = \$621 |
| | Local | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 162 | 8 | = \$5,202 |
| Metallizing | State | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 95%) * | | 4 | 0 | = \$118 |
| | Local | 12 * \$ | 106.73 * | 2 * | 25% * | (0% + 100%) * | | 32 | 2 | = \$1,028 |

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| | | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS | Item 13 COSTS |
|------------------------------|-------|--------------|-------------|--------|-----------|-----------------|--------|----------|----------|---------------|
| GOVERNMENT | | | | | | | | | | |
| SMAW | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 19 | 1 | = \$592 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 594 | 30 | = \$19,032 |
| Plasma Cutting | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 0 | 0 | = \$0 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 8 | 0 | = \$249 |
| GMAW | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 4 | 0 | = \$118 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 119 | 6 | = \$3,800 |
| Brazing | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 2 | 0 | = \$59 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 59 | 3 | = \$1,900 |
| Metallizing | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 1 | 0 | = \$30 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 12 | 1 | = \$374 |
| GENERAL INDUSTRY | | | | | | | | | | |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| SMAW | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 4,773 | 239 | = \$137,538 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 4,859 | 243 | = \$155,592 |
| GMAW | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 3,500 | 175 | = \$100,869 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 3,563 | 178 | = \$114,101 |
| TIG | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 1,060 | 53 | = \$30,558 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 1,080 | 54 | = \$34,576 |
| SAW | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 424 | 21 | = \$12,223 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 432 | 22 | = \$13,830 |
| Plasma Cutting | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 106 | 5 | = \$3,056 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 108 | 5 | = \$3,458 |
| Plasma Welding | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 106 | 5 | = \$3,056 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 108 | 5 | = \$3,458 |
| Resistance Welding | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 636 | 32 | = \$18,335 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 648 | 32 | = \$20,746 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 37 | 2 | = \$1,776 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 21 | 1 | = \$1,850 |
| GMAW | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 54 | 3 | = \$2,570 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 30 | 2 | = \$2,607 |
| TIG | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 13 | 1 | = \$607 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 7 | 0 | = \$589 |
| FCAW | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 251 | 13 | = \$12,055 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 142 | 7 | = \$12,279 |
| Plasma Cutting | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 8 | 0 | = \$374 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 5 | 0 | = \$421 |

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|---------------------------------|-------|--------------|-------------|--------|-----------|-----------------|--------|----------|----------|---------------|
| Plasma Welding | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 3 | 0 | = \$140 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 2 | 0 | = \$168 |
| Oxy-fuel Cutting | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 8 | 0 | = \$374 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 5 | 0 | = \$421 |
| Air Carbon Arc Cutting | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 3 | 0 | = \$140 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 2 | 0 | = \$168 |
| Electric Torch Cutting | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 1 | 0 | = \$47 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 0 | 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 1 | 0 | = \$47 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 0 | 0 | = \$0 |
| SAW | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 50%) | * | 33 | 2 | = \$1,589 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 18 | 1 | = \$1,598 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 304 | 15 | = \$9,233 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 2,293 | 115 | = \$73,420 |
| Plasma Cutting | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 4 | 0 | = \$118 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 30 | 2 | = \$966 |
| GMAW | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 60 | 3 | = \$1,835 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 458 | 23 | = \$14,671 |
| Brazing | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 30 | 2 | = \$917 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 230 | 11 | = \$7,351 |
| Metallizing | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 95%) | * | 6 | 0 | = \$178 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 46 | 2 | = \$1,464 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| General Industry (Aerospace) | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 50 | 2 | = \$398 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 75%) | * | 63 | 3 | = \$1,502 |
| General Industry (Autobody) | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 331 | 17 | = \$2,651 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 75%) | * | 1,458 | 73 | = \$35,013 |
| General Industry (Coil Coating) | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 101 | 5 | = \$810 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 75%) | * | 18 | 1 | = \$442 |
| Maritime | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 10%) | * | 294 | 15 | = \$941 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 508 | 25 | = \$14,643 |
| Construction | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 765 | 38 | = \$6,124 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 50%) | * | 4,067 | 203 | = \$65,119 |
| Government | State | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 16 | 1 | = \$130 |
| | Local | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 25%) | * | 899 | 45 | = \$7,196 |

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| | | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS | Item 13 COSTS |
|--|-------|--------------|-------------|--------|-----------|-----------------|--------|----------|----------|---------------|
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 100%) | * | 2 | 0 | = \$267 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | 20 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 2 | 0 | = \$106 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 1 | 0 | = \$32 |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 3 | 0 | = \$82 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | 28 | * \$ 106.73 | * 2 | * 25% | * (0% + 20%) | * | 5 | 0 | = \$78 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 75%) | * | 87 | 4 | = \$2,100 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 75%) | * | 137 | 7 | = \$3,299 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 90%) | * | 3 | 0 | = \$347 |
| | Small | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 90%) | * | 10 | 1 | = \$1,157 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0 + 100%) | * | 86 | 4 | = \$2,755 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0 + 100%) | * | 42 | 2 | = \$1,347 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 80%) | * | 4 | 0 | = \$339 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 75%) | * | 3 | 0 | = \$212 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | 28 | * \$ 106.73 | * 2 | * 100% | * (0% + 100%) | * | 1 | 0 | = \$299 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| Alloy Stainless Steel | Large | 20 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 37 | 2 | = \$5,369 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 12 | 1 | = \$1,033 |
| Carbon Steel | Large | 20 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 112 | 6 | = \$16,108 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 35 | 2 | = \$3,039 |
| 14.B Forging Industry | | | | | | | | | | |
| Reshaping | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 37 | 2 | = \$3,161 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 34 | 2 | = \$2,978 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | 28 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 178 | 9 | = \$11,984 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 90%) | * | 130 | 6 | = \$3,735 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 3 | 0 | = \$95 |
| | Small | 12 | * \$ 106.73 | * 2 | * 25% | * (0% + 100%) | * | 1 | 0 | = \$32 |

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|---------------------------------------|-------|--------------|-------------|--------|-----------|-----------------|--------|----------|----------|---------------|
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| | Small | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 100%) | * | 5 | 0 | = \$667 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 207 | 10 | = \$19,877 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 1,561 | 78 | = \$149,984 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 347 | 17 | = \$29,956 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 703 | 35 | = \$60,793 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| General Industry | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 5 | 0 | = \$469 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 17 | 1 | = \$1,485 |
| Fiber, Flat and Container Glass | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 78 | 4 | = \$6,721 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 5 | 0 | = \$391 |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 92 | 5 | = \$7,938 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 367 | 18 | = \$31,752 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| Catalyst Users | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 164 | 8 | = \$14,214 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 90%) | * | 0 | 0 | = \$0 |
| Chromium Catalyst Service Companies | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 21 | 1 | = \$1,831 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 4 | 0 | = \$349 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 6 | 0 | = \$509 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 0 | 0 | = \$0 |
| SECTOR 26. Woodworking | | | | | | | | | | |
| General Industry | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 175 | 9 | = \$16,778 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 93 | 5 | = \$8,972 |
| Maritime | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 38 | 2 | = \$3,694 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 34 | 2 | = \$3,254 |
| Construction | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 1,290 | 64 | = \$123,890 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 5,162 | 258 | = \$495,893 |
| Government | State | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 16 | 1 | = \$1,560 |
| | Local | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 59 | 3 | = \$5,641 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | |
| General Industry | Large | 20 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 48 | 2 | = \$6,941 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 58 | 3 | = \$4,998 |
| Government | State | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 25%) | * | 0 | 0 | = \$0 |
| | Local | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 29 | 1 | = \$2,499 |

Table 1

| | | INITCONTTIME | CONTCOST | # INIT | % INITADD | % LEARN | % CONT | # PLANTS | # PLANTS | Item 13 COSTS |
|---|-------|--------------|-------------|--------|-----------|-----------------|--------|---------------|--------------|--------------------|
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | |
| ALL | Large | 28 | * \$ 106.73 | * 2 | * 75% | * (0% + 100%) | * | 18 | 1 | = \$3,958 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 0%) | * | 0 | 0 | = \$0 |
| SECTOR 31. Construction | | | | | | | | | | |
| Industrial Rehabilitation | Large | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 100%) | * | 55 | 3 | = \$0 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 100%) | * | 196 | 10 | = \$0 |
| | State | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 100%) | * | 16 | 1 | = \$2,049 |
| | Local | 12 | * \$ 106.73 | * 2 | * 100% | * (0% + 100%) | * | 74 | 4 | = \$9,446 |
| Hazardous Waste-site Work | Large | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 44 | 2 | = \$3,764 |
| | Small | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 143 | 7 | = \$12,369 |
| | State | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 1 | 0 | = \$77 |
| | Local | 12 | * \$ 106.73 | * 2 | * 75% | * (0% + 90%) | * | 201 | 10 | = \$17,362 |
| Refractory Brick Restoration | Large | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 90%) | * | 48 | 2 | = \$0 |
| | Small | 12 | * \$ 106.73 | * 2 | * 0% | * (0% + 90%) | * | 148 | 7 | = \$0 |
| Total | | | | | | | | 77,770 | 3,888 | \$3,048,250 |

Table 2

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

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

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

Variables

- * **SAMPYCOST** = Variable cost per sample = \$68
- * **JOBCAT** = Number of job categories (covering each work area).
- * **SHIFTS** = Number of work shifts
- * **#SAMPY** = 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 | #SAMPY | #INIT | %INITADD | # PLANTS | # PLANTS | Item 13 COSTS | |
|---------------------------------|-------|-----------|--------|--------|--------|-------|----------|----------|----------|---------------|------------|
| Sector 1. Electroplating | | | | | | | | | | | |
| Hard Chrome | Large | (\$68 | * 7 | * 2 | * 3 | * 2 | * 25% |) * | 930 | 47 | = \$66,488 |
| | Small | (\$68 | * 7 | * 1 | * 3 | * 2 | * 25% |) * | 1,751 | 88 | = \$62,566 |
| Job Shop Chrome Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 25% |) * | 448 | 22 | = \$4,576 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 843 | 42 | = \$4,306 |
| Captive Shop Chrome Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 25% |) * | 508 | 25 | = \$5,182 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 955 | 48 | = \$4,877 |
| Job Shop Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 25% |) * | 448 | 22 | = \$4,576 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 843 | 42 | = \$4,306 |
| Captive Shop Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 25% |) * | 509 | 25 | = \$5,201 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 959 | 48 | = \$4,895 |
| Operator | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 25% |) * | 930 | 47 | = \$9,498 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 1,751 | 88 | = \$8,938 |
| Sector 2. Welding | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |) * | 3,560 | 178 | = \$36,342 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 3,989 | 199 | = \$20,361 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |) * | 2,611 | 131 | = \$26,658 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 2,925 | 146 | = \$14,933 |
| TIG | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |) * | 791 | 40 | = \$8,075 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 886 | 44 | = \$4,524 |
| SAW | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |) * | 316 | 16 | = \$3,228 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |) * | 354 | 18 | = \$1,808 |

Table 2

| | | SAMPCOST | JOB | CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS |
|--------------------------------|-------|----------|-----|-----|--------|---------|--------|-----------|----------|----------|---------------|
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |)* | 79 | 4 | = \$805 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |)* | 89 | 4 | = \$452 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |)* | 79 | 4 | = \$805 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |)* | 89 | 4 | = \$452 |
| Resistance Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 25% |)* | 475 | 24 | = \$4,847 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |)* | 532 | 27 | = \$2,716 |
| MARITIME | | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 18 | 1 | = \$268 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 10 | 0 | = \$99 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 24 | 1 | = \$372 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 14 | 1 | = \$139 |
| TIG | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 6 | 0 | = \$89 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 3 | 0 | = \$30 |
| FCAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 117 | 6 | = \$1,788 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 66 | 3 | = \$675 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 4 | 0 | = \$60 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$20 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$30 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 1 | 0 | = \$10 |
| Oxy-fuel Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 4 | 0 | = \$60 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$20 |
| Air Carbon Arc Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$30 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 1 | 0 | = \$10 |
| Electric Torch Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| SAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 16 | 1 | = \$238 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 9 | 0 | = \$89 |
| CONSTRUCTION | | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 202 | 10 | = \$1,033 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 1,620 | 81 | = \$2,756 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 3 | 0 | = \$15 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 21 | 1 | = \$36 |

Table 2

| | | SAMPCOST | JOB | CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS |
|-------------------------------------|-------|----------------------------------|-----|-----|--------|---------|--------|-----------|----------|----------|---------------|
| GMAW | Large | (\$68 * 1 * 3 * 1 * 2 * 25%) * | | | | | | | 41 | 2 | = \$209 |
| | Small | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 324 | 16 | = \$551 |
| Brazing | State | (\$68 * 1 * 3 * 1 * 2 * 25%) * | | | | | | | 20 | 1 | = \$104 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 162 | 8 | = \$276 |
| Metallizing | State | (\$68 * 1 * 3 * 1 * 2 * 25%) * | | | | | | | 4 | 0 | = \$20 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 32 | 2 | = \$55 |
| GOVERNMENT | | | | | | | | | | | |
| SMAW | State | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 19 | 1 | = \$33 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 594 | 30 | = \$1,011 |
| Plasma Cutting | State | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 0 | 0 | = \$0 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 8 | 0 | = \$13 |
| GMAW | State | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 4 | 0 | = \$7 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 119 | 6 | = \$202 |
| Brazing | State | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 2 | 0 | = \$3 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 59 | 3 | = \$101 |
| Metallizing | State | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 1 | 0 | = \$2 |
| | Local | (\$68 * 1 * 1 * 1 * 2 * 25%) * | | | | | | | 12 | 1 | = \$20 |
| GENERAL INDUSTRY | | | | | | | | | | | |
| Sector 2. Mild Steel Welding | | | | | | | | | | | |
| SMAW | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 4,773 | 239 | = \$48,728 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 4,859 | 243 | = \$24,806 |
| GMAW | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 3,500 | 175 | = \$35,736 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 3,563 | 178 | = \$18,191 |
| TIG | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 1,060 | 53 | = \$10,826 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 1,080 | 54 | = \$5,512 |
| SAW | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 424 | 21 | = \$4,330 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 432 | 22 | = \$2,205 |
| Plasma Cutting | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 106 | 5 | = \$1,083 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 108 | 5 | = \$551 |
| Plasma Welding | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 106 | 5 | = \$1,083 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 108 | 5 | = \$551 |
| Resistance Welding | Large | (\$68 * 1 * 3 * 2 * 2 * 25%) * | | | | | | | 636 | 32 | = \$6,496 |
| | Small | (\$68 * 1 * 1 * 3 * 2 * 25%) * | | | | | | | 648 | 32 | = \$3,307 |

Table 2

| | | SAMPCOST | JOB/CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS | |
|--------------------------------|-------|----------|---------|--------|---------|--------|-----------|----------|----------|---------------|-----------|
| MARITIME | | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 37 | 2 | = \$566 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 21 | 1 | = \$219 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 54 | 3 | = \$819 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 30 | 2 | = \$308 |
| TIG | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 13 | 1 | = \$194 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 7 | 0 | = \$70 |
| FCAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 251 | 13 | = \$3,844 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 142 | 7 | = \$1,450 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 8 | 0 | = \$119 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 5 | 0 | = \$50 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 3 | 0 | = \$45 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$20 |
| Oxy-fuel Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 8 | 0 | = \$119 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 5 | 0 | = \$50 |
| Air Carbon Arc Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 3 | 0 | = \$45 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 2 | 0 | = \$20 |
| Electric Torch Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 1 | 0 | = \$15 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 1 | 0 | = \$15 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 0 | 0 | = \$0 |
| SAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 75% |)* | 33 | 2 | = \$507 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 75% |)* | 18 | 1 | = \$189 |
| CONSTRUCTION | | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 304 | 15 | = \$1,549 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 2,293 | 115 | = \$3,902 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 4 | 0 | = \$20 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 30 | 2 | = \$51 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 60 | 3 | = \$308 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 458 | 23 | = \$780 |
| Brazing | State | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 30 | 2 | = \$154 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 230 | 11 | = \$391 |

Table 2

| | | SAMPCOST | JOB | CAT | SHIFTS | # SAMP | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS |
|---|-------|----------|------|-----|--------|--------|--------|-----------|----------|----------|---------------|
| Metallizing | State | (\$68 | * 1 | * 3 | * 1 | * 2 | * 25% |)* | 6 | 0 | = \$30 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 25% |)* | 46 | 2 | = \$78 |
| SECTOR 3. PAINTING - General Industry | | | | | | | | | | | |
| AEROSPACE | Large | (\$68 | * 2 | * 3 | * 3 | * 2 | * 25% |)* | 50 | 2 | = \$1,521 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 25% |)* | 63 | 3 | = \$639 |
| General Industry (Autobody) | Large | (\$68 | * 2 | * 1 | * 1 | * 2 | * 25% |)* | 331 | 17 | = \$1,127 |
| | Small | (\$68 | * 2 | * 1 | * 1 | * 2 | * 25% |)* | 1,458 | 73 | = \$4,962 |
| General Industry (Coil Coating) | Large | (\$68 | * 2 | * 2 | * 3 | * 2 | * 25% |)* | 101 | 5 | = \$2,066 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 25% |)* | 18 | 1 | = \$188 |
| Maritime | Large | (\$68 | * 3 | * 3 | * 1 | * 2 | * 25% |)* | 294 | 15 | = \$4,501 |
| | Small | (\$68 | * 3 | * 1 | * 1 | * 2 | * 25% |)* | 508 | 25 | = \$2,594 |
| Construction | Large | (\$68 | * 3 | * 3 | * 1 | * 2 | * 25% |)* | 765 | 38 | = \$11,717 |
| | Small | (\$68 | * 3 | * 1 | * 1 | * 2 | * 25% |)* | 4,067 | 203 | = \$20,764 |
| Government | State | (\$68 | * 2 | * 3 | * 1 | * 2 | * 25% |)* | 16 | 1 | = \$166 |
| | Local | (\$68 | * 2 | * 1 | * 1 | * 2 | * 25% |)* | 899 | 45 | = \$3,060 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | |
| ALL | Large | (\$68 | * 4 | * 3 | * 3 | * 2 | * 100% |)* | 2 | 0 | = \$510 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 0% |)* | 0 | 0 | = \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | |
| ALL | Large | (\$68 | * 9 | * 2 | * 3 | * 2 | * 25% |)* | 2 | 0 | = \$182 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |)* | 1 | 0 | = \$5 |
| SECTOR 6. CCA Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 4 | * 3 | * 3 | * 2 | * 25% |)* | 3 | 0 | = \$157 |
| | Small | (\$68 | * 0 | * 3 | * 0 | * 2 | * 0% |)* | 0 | 0 | = \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 14 | * 3 | * 3 | * 2 | * 25% |)* | 5 | 0 | = \$1,116 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 0% |)* | 0 | 0 | = \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 4 | * 2 | * 3 | * 2 | * 25% |)* | 87 | 4 | = \$3,571 |
| | Small | (\$68 | * 4 | * 2 | * 3 | * 2 | * 25% |)* | 137 | 7 | = \$5,611 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 5 | * 1 | * 9 | * 2 | * 100% |)* | 3 | 0 | = \$923 |
| | Small | (\$68 | * 3 | * 1 | * 5 | * 2 | * 100% |)* | 10 | 1 | = \$1,025 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | |
| ALL | Large | (\$68 | * 4 | * 3 | * 3 | * 2 | * 25% |)* | 86 | 4 | = \$5,270 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 25% |)* | 42 | 2 | = \$215 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | |

Table 2

| | | SAMPCOST | JOB | CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS |
|---------------------------------------|-------|----------|------|-----|--------|---------|--------|-----------|----------|----------|---------------|
| ALL | Large | (\$68 | * 3 | * 1 | * 3 | * 2 | * 75% |)* | 4 | 0 | = \$203 |
| | Small | (\$68 | * 3 | * 1 | * 3 | * 2 | * 75% |)* | 3 | 0 | = \$135 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 16 | * 3 | * 3 | * 2 | * 100% |)* | 1 | 0 | = \$980 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 0% |)* | 0 | 0 | = \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | (\$68 | * 8 | * 3 | * 3 | * 2 | * 75% |)* | 37 | 2 | = \$13,697 |
| | Small | (\$68 | * 4 | * 1 | * 3 | * 2 | * 75% |)* | 12 | 1 | = \$732 |
| Carbon Steel | Large | (\$68 | * 8 | * 3 | * 3 | * 2 | * 75% |)* | 112 | 6 | = \$41,090 |
| | Small | (\$68 | * 4 | * 1 | * 1 | * 2 | * 75% |)* | 35 | 2 | = \$718 |
| 14.B Forging Industry | | | | | | | | | | | |
| Reshaping | Large | (\$68 | * 5 | * 1 | * 3 | * 2 | * 75% |)* | 37 | 2 | = \$2,800 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 75% |)* | 34 | 2 | = \$1,055 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | |
| ALL | Large | (\$68 | * 9 | * 3 | * 5 | * 2 | * 25% |)* | 178 | 9 | = \$40,941 |
| | Small | (\$68 | * 5 | * 1 | * 5 | * 2 | * 25% |)* | 130 | 6 | = \$5,514 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 7 | * 1 | * 21 | * 2 | * 25% |)* | 3 | 0 | = \$742 |
| | Small | (\$68 | * 5 | * 1 | * 7 | * 2 | * 25% |)* | 1 | 0 | = \$59 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 2 | * 0% |)* | 0 | 0 | = \$0 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 100% |)* | 5 | 0 | = \$213 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | |
| ALL | Large | (\$68 | * 1 | * 1 | * 3 | * 2 | * 75% |)* | 207 | 10 | = \$3,169 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 75% |)* | 1,561 | 78 | = \$23,912 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | |
| ALL | Large | (\$68 | * 3 | * 3 | * 3 | * 2 | * 75% |)* | 347 | 17 | = \$47,759 |
| | Small | (\$68 | * 2 | * 1 | * 2 | * 2 | * 75% |)* | 703 | 35 | = \$14,359 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | |
| General Industry | Large | (\$68 | * 3 | * 3 | * 12 | * 2 | * 75% |)* | 5 | 0 | = \$2,990 |
| | Small | (\$68 | * 2 | * 1 | * 4 | * 2 | * 75% |)* | 17 | 1 | = \$701 |
| Fiber, Flat and Container Glass | Large | (\$68 | * 5 | * 1 | * 1 | * 2 | * 75% |)* | 78 | 4 | = \$1,984 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 75% |)* | 5 | 0 | = \$23 |
| SECTOR 22. Printing | | | | | | | | | | | |
| ALL | Large | (\$68 | * 3 | * 3 | * 2 | * 2 | * 75% |)* | 92 | 5 | = \$8,437 |
| | Small | (\$68 | * 2 | * 1 | * 2 | * 2 | * 75% |)* | 367 | 18 | = \$7,499 |

Table 2

| | | SAMPCOST | JOB/CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS | | | | | | | | | |
|---|-------|----------|---------|--------|---------|--------|-----------|----------|----------|---------------|---|---|------|---|---|-------|-----|---|----------|
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | | | | | | |
| Catalyst Users | Large | (| \$68 | * | 2 | * | 3 | * | 3 | * | 2 | * | 75% |) | * | 164 | 8 | = | \$15,108 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 3 | * | 2 | * | 0% |) | * | 0 | 0 | = | \$0 |
| Chromium Catalyst Service Companies | Large | (| \$68 | * | 0 | * | 3 | * | 3 | * | 2 | * | 75% |) | * | 21 | 1 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 3 | * | 2 | * | 75% |) | * | 4 | 0 | = | \$0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| \$68 | * | 9 | * | 1 | * | 15 | * | 2 | * | 75% |) | * | 6 | 0 | = | \$4,056 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 0 | * | 2 | * | 75% |) | * | 0 | 0 | = | \$0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | | | | | | |
| General Industry | Large | (| \$68 | * | 1 | * | 1 | * | 2 | * | 2 | * | 75% |) | * | 175 | 9 | = | \$1,783 |
| | Small | (| \$68 | * | 1 | * | 1 | * | 2 | * | 2 | * | 75% |) | * | 93 | 5 | = | \$954 |
| Maritime | Large | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 38 | 2 | = | \$196 |
| | Small | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 34 | 2 | = | \$173 |
| Construction | Large | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 1,290 | 64 | = | \$6,584 |
| | Small | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 5,162 | 258 | = | \$26,353 |
| Government | State | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 16 | 1 | = | \$83 |
| | Local | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 59 | 3 | = | \$300 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | | | | | | |
| General Industry | Large | (| \$68 | * | 6 | * | 3 | * | 15 | * | 2 | * | 75% |) | * | 48 | 2 | = | \$66,397 |
| | Small | (| \$68 | * | 6 | * | 1 | * | 3 | * | 2 | * | 75% |) | * | 58 | 3 | = | \$5,312 |
| Government | State | (| \$68 | * | 0 | * | 3 | * | 15 | * | 2 | * | 75% |) | * | 0 | 0 | = | \$0 |
| | Local | (| \$68 | * | 6 | * | 1 | * | 3 | * | 2 | * | 75% |) | * | 29 | 1 | = | \$2,656 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| \$68 | * | 12 | * | 3 | * | 3 | * | 2 | * | 75% |) | * | 18 | 1 | = | \$9,735 |
| | Small | (| \$68 | * | 0 | * | 3 | * | 3 | * | 2 | * | 0% |) | * | 0 | 0 | = | \$0 |
| SECTOR 31. Construction | | | | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 0% |) | * | 55 | 3 | = | \$0 |
| | Small | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 0% |) | * | 196 | 10 | = | \$0 |
| | State | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 100% |) | * | 16 | 1 | = | \$109 |
| | Local | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 100% |) | * | 74 | 4 | = | \$502 |
| Hazardous Waste-site Work | Large | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 44 | 2 | = | \$222 |
| | Small | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 143 | 7 | = | \$730 |
| | State | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 1 | 0 | = | \$5 |
| | Local | (| \$68 | * | 1 | * | 1 | * | 1 | * | 2 | * | 75% |) | * | 201 | 11 | = | \$1,123 |

Table 2

| | | SAMPCOST | JOB | CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | # PLANTS | Item 13 COSTS | |
|------------------------------|-------|--------------|-----|-----|--------|---------|--------|-----------|---------------|--------------|---------------|------------------|
| Refractory Brick Restoration | Large | (\$68 | * 1 | * 1 | * 1 | * 2 | * 0% | *) | 48 | 2 | = \$0 | |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 0% | *) | 148 | 7 | = \$0 | |
| | | Total | | | | | | | 77,770 | 3,889 | = | \$935,200 |

Table 3

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

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

COST = BURDEN HOURS * NON SUPEWAGE

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

Variables

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

| | | ADMINTIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|---------------------------------|-------|-------------|-------------|---|--------|--------|---------------|----------|----------|----------|--------|---------|--------------|-------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | | | |
| Hard Chrome | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 49.00% * (0% + 0%) * 930) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 49.00% * (0% + 0%) * 1,751) = \$0 0 0 | | | | | | | | | | | |
| Job Shop Chrome Plater | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 11.00% * (0% + 0%) * 448) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 11.00% * (0% + 0%) * 843) = \$0 0 0 | | | | | | | | | | | |
| Captive Shop Chrome Plater | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 14.00% * (0% + 0%) * 508) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 14.00% * (0% + 0%) * 955) = \$0 0 0 | | | | | | | | | | | |
| Job Shop Plater | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 10.00% * (0% + 0%) * 448) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 10.00% * (0% + 0%) * 843) = \$0 0 0 | | | | | | | | | | | |
| Captive Shop Plater | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 13.00% * (0% + 0%) * 509) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 13.00% * (0% + 0%) * 959) = \$0 0 0 | | | | | | | | | | | |
| Operator | Large | (0.50 * \$ | 25.49 * 1 | * 2 * 3 * 2 * 100% * 16.00% * (0% + 0%) * 930) = \$0 0 0 | | | | | | | | | | | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 * 3 * 2 * 100% * 16.00% * (0% + 0%) * 1,751) = \$0 0 0 | | | | | | | | | | | |
| Sector 2. Welding | | | | | | | | | | | | | | | |
| General Industry | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.92% * (10% + 0%) * 3,560) = \$493 20 39 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 100% * 0.92% * (0% + 0%) * 3,989) = \$0 0 0 | | | | | | | | | | | |
| GMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.73% * (10% + 0%) * 2,611) = \$287 11 23 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 100% * 0.73% * (0% + 0%) * 2,925) = \$0 0 0 | | | | | | | | | | | |
| TIG | Large | (0.50 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 791) = \$0 0 0 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 886) = \$0 0 0 | | | | | | | | | | | |
| SAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 316) = \$0 0 0 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 354) = \$0 0 0 | | | | | | | | | | | |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 79) = \$0 0 0 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 89) = \$0 0 0 | | | | | | | | | | | |
| Plasma Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 79) = \$0 0 0 | | | | | | | | | | | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 89) = \$0 0 0 | | | | | | | | | | | |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|--------------------------------|-------|--|------------|-------|--------|---------|---------------|----------|----------|----------|--------|---------|--------------|-------------|-----------|
| Resistance Welding | Large | (0.50 * \$ 25.10 * 1 * 3 * 2 * 2 * 100% * 0.00% * ((10% + 0%) * 475) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 1 * 3 * 2 * 100% * 0.00% * ((0% + 0%) * 532) = | | | | | | | | | | | \$0 | 0 | 0 |
| MARITIME | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 18) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 10) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 24) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 14) = | | | | | | | | | | | \$0 | 0 | 0 |
| TIG | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 6) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 3) = | | | | | | | | | | | \$0 | 0 | 0 |
| FCAW | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 117) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 66) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 4) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| Oxy-fuel Cutting | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 4) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| Air Carbon Arc Cutting | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| Electric Torch Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| Thermal Spray Tungsten Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| SAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * ((50% + 0%) * 16) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * ((10% + 0%) * 9) = | | | | | | | | | | | \$0 | 0 | 0 |
| CONSTRUCTION | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 202) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 1,620) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 3) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 21) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | Large | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 41) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 324) = | | | | | | | | | | | \$0 | 0 | 0 |
| Brazing | State | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 20) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 162) = | | | | | | | | | | | \$0 | 0 | 0 |
| Metallizing | State | (0.50 * \$ 25.10 * 1 * 3 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 4) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 32) = | | | | | | | | | | | \$0 | 0 | 0 |
| GOVERNMENT | | | | | | | | | | | | | | | |
| SMAW | State | (0.50 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((5% + 0%) * 19) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * ((0% + 0%) * 594) = | | | | | | | | | | | \$0 | 0 | 0 |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|--|-------|---|------------|-------|--------|---------|---------------|----------|----------|----------|--------|---------|--------------|-------------|-----------|
| Plasma Cutting | State | (0.50 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 8) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | State | (0.50 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 4) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 119) = | | | | | | | | | | | \$0 | 0 | 0 |
| Brazing | State | (0.50 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 59) = | | | | | | | | | | | \$0 | 0 | 0 |
| Metallizing | State | (0.50 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Local | (1.00 * \$ 25.10 * 1 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 12) = | | | | | | | | | | | \$0 | 0 | 0 |
| Sector 2. Mild Steel Welding GENERAL INDUSTRY | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 4,773) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 4,859) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 3,500) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 3,563) = | | | | | | | | | | | \$0 | 0 | 0 |
| TIG | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 1,060) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 1,080) = | | | | | | | | | | | \$0 | 0 | 0 |
| SAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 424) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 432) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 106) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 108) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 106) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 108) = | | | | | | | | | | | \$0 | 0 | 0 |
| Resistance Welding | Large | (0.50 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 636) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 648) = | | | | | | | | | | | \$0 | 0 | 0 |
| MARITIME | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 37) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 21) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 54) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 30) = | | | | | | | | | | | \$0 | 0 | 0 |
| TIG | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 13) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 7) = | | | | | | | | | | | \$0 | 0 | 0 |
| FCAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 251) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 142) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 8) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 3) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| Oxy-fuel Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 8) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) = | | | | | | | | | | | \$0 | 0 | 0 |
| Air Carbon Arc Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 3) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|--|-------|--|------------|-------|--------|---------|---------------|----------|----------|----------|--------|---------|--------------|-------------|-----------|
| Electric Torch Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| Thermal Spray Tungsten Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| SAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (50% + 0%) * 33) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 2 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 18) = | | | | | | | | | | | \$0 | 0 | 0 |
| CONSTRUCTION | | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 304) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 2,293) = | | | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 4) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 30) = | | | | | | | | | | | \$0 | 0 | 0 |
| GMAW | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 60) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 458) = | | | | | | | | | | | \$0 | 0 | 0 |
| Brazing | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 30) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 230) = | | | | | | | | | | | \$0 | 0 | 0 |
| Metallizing | Large | (0.50 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * (5% + 0%) * 6) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 46) = | | | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | | |
| AEROSPACE | Large | (0.50 * \$ 31.68 * 1 * 3 * 3 * 2 * 100% * 28.00% * (75% + 0%) * 50) = | | | | | | | | | | | \$2,974 | 94 | 188 |
| | Small | (1.00 * \$ 31.68 * 1 * 1 * 3 * 2 * 100% * 9.00% * (25% + 0%) * 63) = | | | | | | | | | | | \$268 | 8 | 8 |
| General Industry (Autobody) | Large | (0.50 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 5.00% * (75% + 0%) * 331) = | | | | | | | | | | | \$393 | 12 | 24.836256 |
| | Small | (1.00 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 5.00% * (25% + 0%) * 1,458) = | | | | | | | | | | | \$1,155 | 36 | 36 |
| General Industry (Coil Coating) | Large | (0.50 * \$ 31.68 * 1 * 2 * 3 * 2 * 100% * 8.00% * (75% + 0%) * 101) = | | | | | | | | | | | \$1,154 | 36 | 73 |
| | Small | (1.00 * \$ 31.68 * 1 * 1 * 3 * 2 * 100% * 8.00% * (25% + 0%) * 18) = | | | | | | | | | | | \$70 | 2 | 2 |
| Maritime | Large | (0.50 * \$ 31.68 * 2 * 3 * 1 * 2 * 100% * 36.00% * (90% + 0%) * 294) = | | | | | | | | | | | \$18,098 | 571 | 1143 |
| | Small | (1.00 * \$ 31.68 * 0 * 1 * 1 * 2 * 100% * 36.00% * (10% + 0%) * 508) = | | | | | | | | | | | \$0 | 0 | 0 |
| Construction | Large | (0.50 * \$ 31.68 * 1 * 3 * 1 * 2 * 100% * 22.00% * (75% + 0%) * 765) = | | | | | | | | | | | \$11,997 | 379 | 757 |
| | Small | (1.00 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 22.00% * (50% + 0%) * 4,067) = | | | | | | | | | | | \$28,347 | 895 | 895 |
| Government | State | (0.50 * \$ 31.68 * 1 * 3 * 1 * 2 * 100% * 12.00% * (75% + 0%) * 16) = | | | | | | | | | | | \$139 | 4 | 9 |
| | Local | (1.00 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 12.00% * (75% + 0%) * 899) = | | | | | | | | | | | \$5,126 | 162 | 162 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ 37.06 * 3 * 3 * 3 * 2 * 100% * 45.00% * (0% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 37.06 * 0 * 1 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ 36.12 * 5 * 2 * 3 * 2 * 100% * 71.00% * (0% + 0%) * 2) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 36.12 * 1 * 1 * 3 * 2 * 100% * 50.00% * (0% + 0%) * 1) = | | | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ 30.60 * 1 * 3 * 3 * 2 * 100% * 33.00% * (0% + 0%) * 3) = | | | | | | | | | | | \$0 | 0 | 0 |
| | Small | (1.00 * \$ 30.60 * 0 * 3 * 0 * 2 * 100% * 0.00% * (0% + 0%) * 0) = | | | | | | | | | | | \$0 | 0 | 0 |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|---|-------|-------------|------------|-------|--------|---------|---------------|-----------|------------------|----------|--------|----------|--------------|-------------|-----------|
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 37.06 * 6 | * 3 | * 3 | * 2 | * 100% | * 100.00% | * (80% + 0%) * | 5 |) = | \$8,331 | 225 | 449.64706 | |
| | Small | (1.00 * \$ | 37.06 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * (0% + 0%) * | 0 |) = | \$0 | 0 | 0 | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.60 * 1 | * 2 | * 3 | * 2 | * 100% | * 13.00% | * (25% + 0%) * | 87 |) = | \$471 | 17 | 34 | |
| | Small | (1.00 * \$ | 27.60 * 1 | * 2 | * 3 | * 2 | * 100% | * 13.00% | * (25% + 0%) * | 137 |) = | \$1,479 | 54 | 54 | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.65 * 3 | * 1 | * 9 | * 2 | * 100% | * 69.00% | * (10% + 0%) * | 3 |) = | \$155 | 6 | 11 | |
| | Small | (0.50 * \$ | 27.65 * 2 | * 1 | * 5 | * 2 | * 100% | * 69.00% | * (10% + 0%) * | 10 |) = | \$192 | 7 | 14 | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 30.64 * 2 | * 3 | * 3 | * 2 | * 100% | * 51.00% | * (0 + 0) * | 86 |) = | \$0 | 0 | 0 | |
| | Small | (1.00 * \$ | 30.64 * 2 | * 1 | * 3 | * 2 | * 100% | * 51.00% | * (0 + 0) * | 42 |) = | \$0 | 0 | 0 | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.50 * 1 | * 1 | * 3 | * 2 | * 100% | * 100.00% | * (20% + 0%) * | 4 |) = | \$73 | 3 | 5 | |
| | Small | (1.00 * \$ | 27.50 * 1 | * 1 | * 3 | * 2 | * 100% | * 100.00% | * (25% + 0%) * | 3 |) = | \$122 | 4 | 4.4178039 | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.5 * \$ | 37.17 * 2 | * 3 | * 3 | * 2 | * 100% | * 100.00% | * (0% + 0%) * | 1 |) = | \$0 | 0 | 0 | |
| | Small | (1 * \$ | 37.17 * 0 | * 1 | * 1 | * 2 | * 0% | * 0.00% | * (0% + 0%) * | 0 |) = | \$0 | 0 | 0 | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | (0.50 * \$ | 37.17 * 3 | * 3 | * 3 | * 2 | * 100% | * 38.00% | * (10% + 0%) * | 37 |) = | \$1,421 | 38 | 76 | |
| | Small | (1.00 * \$ | 37.17 * 1 | * 1 | * 3 | * 2 | * 100% | * 38.00% | * (10% + 0%) * | 12 |) = | \$101 | 3 | 3 | |
| Carbon Steel | Large | (0.50 * \$ | 37.17 * 0 | * 3 | * 3 | * 2 | * 100% | * 0.00% | * (10% + 0%) * | 112 |) = | \$0 | 0 | 0 | |
| | Small | (1.00 * \$ | 37.17 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * (10% + 0%) * | 35 |) = | \$0 | 0 | 0 | |
| SECTOR 14B. Forging Industry | | | | | | | | | | | | | | | |
| Reshaping | Large | (0.50 * \$ | 37.17 * 4 | * 1 | * 3 | * 2 | * 100% | * 63.00% | * (10% + 0%) * | 37 |) = | \$1,028 | 28 | 79 | |
| | Small | (1.00 * \$ | 37.17 * 2 | * 1 | * 3 | * 2 | * 100% | * 63.00% | * (10% + 0%) * | 34 |) = | \$968 | 26 | 26 | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.12 * 6 | * 3 | * 5 | * 2 | * 100% | * 100.00% | * (10% + 0%) * | 178 |) = | \$43,504 | 1,604 | 3208.0045 | |
| | Small | (1.00 * \$ | 27.12 * 5 | * 1 | * 5 | * 2 | * 100% | * 100.00% | * (10% + 0%) * | 130 |) = | \$17,578 | 648 | 648.08173 | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 36.12 * 6 | * 1 | * # | * 2 | * 100% | * 38.00% | * (0% + 0%) * | 3 |) = | \$0 | 0 | 0 | |
| | Small | (1.00 * \$ | 36.12 * 6 | * 1 | * 7 | * 2 | * 100% | * 38.00% | * (0% + 0%) * | 1 |) = | \$0 | 0 | 0 | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.5 * \$ | 39.76 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * (0% + 0%) * | 0 |) = | \$0 | 0 | 0 | |
| | Small | (0.5 * \$ | 39.76 * 1 | * 1 | * 3 | * 2 | * 100% | * 27.00% | * (0% + 0%) * | 5 |) = | \$0 | 0 | 0 | |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 28.67 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * (0% + 0%) * | 207 |) = | \$0 | 0 | 0 | |
| | Small | (0.50 * \$ | 28.67 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * (0% + 0%) * | 1,561 |) = | \$0 | 0 | 0 | |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 19.13 * 0 | * 3 | * 3 | * 2 | * 100% | * 0.00% | * (10% + 0%) * | 347 |) = | \$0 | 0 | 0 | |
| | Small | (0.50 * \$ | 19.13 * 0 | * 1 | * 2 | * 2 | * 100% | * 0.00% | * (10% + 0%) * | 703 |) = | \$0 | 0 | 0 | |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|---------------------------------------|-------|-------------|---|-------|--------|---------|---------------|----------|----------|----------|--------|---------|--------------|-------------|-----------|
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | | | |
| General Industry | Large | (0.50 * \$ | 27.66 * 1 * 3 * # * 2 * 100% * 25.00% * (10% + 0%) * 5) = \$135 5 10 | | | | | | | | | | | | |
| | Small | (1.00 * \$ | 27.66 * 0 * 1 * 4 * 2 * 100% * 0.00% * (10% + 0%) * 17) = \$0 0 0 | | | | | | | | | | | | |
| Fiber, Flat, Container Glass | Large | (0.50 * \$ | 27.66 * 3 * 1 * 1 * 2 * 100% * 20.00% * (10% + 0%) * 78) = \$129 5 12 | | | | | | | | | | | | |
| | Small | (1.00 * \$ | 27.66 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 5) = \$0 0 0 | | | | | | | | | | | | |
| SECTOR 22. Printing | | | | | | | | | | | | | | | |
| ALL | Large | (0.5 * \$ | 19.97 * 0 * 3 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 92) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (0.5 * \$ | 19.97 * 0 * 1 * 2 * 2 * 100% * 0.00% * (10% + 0%) * 367) = \$0 0 0 | | | | | | | | | | | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | | |
| Catalyst Users | Large | (0.5 * \$ | 31.14 * 2 * 3 * 3 * 2 * 100% * 9.00% * (10% + 0%) * 164) = \$830 27 53 | | | | | | | | | | | | |
| | Small | (1.0 * \$ | 31.14 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0 0 0 | | | | | | | | | | | | |
| Chromium Catalyst Service Companies | Large | (0.5 * \$ | 31.14 * 0 * 3 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 21) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (1.0 * \$ | 31.14 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 4) = \$0 0 0 | | | | | | | | | | | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | | |
| ALL | Large | (0.5 * \$ | 24.56 * 0 * 1 * # * 2 * 100% * 0.00% * (10% + 0%) * 6) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (0.5 * \$ | 24.56 * 0 * 1 * 0 * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0 0 0 | | | | | | | | | | | | |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | | |
| General Industry | Large | (0.50 * \$ | 30.76 * 0 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 175) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (1 * \$ | 30.76 * 0 * 1 * 2 * 2 * 100% * 0.00% * (0% + 0%) * 93) = \$0 0 0 | | | | | | | | | | | | |
| Maritime | Large | (0.50 * \$ | 30.76 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 38) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (1 * \$ | 30.76 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 34) = \$0 0 0 | | | | | | | | | | | | |
| Construction | Large | (0.50 * \$ | 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 1,290) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (1 * \$ | 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 5,162) = \$0 0 0 | | | | | | | | | | | | |
| Government | State | (0.50 * \$ | 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 16) = \$0 0 0 | | | | | | | | | | | | |
| | Local | (1 * \$ | 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * (0% + 0%) * 59) = \$0 0 0 | | | | | | | | | | | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | | |
| General Industry | Large | (0.50 * \$ | 26.09 * 0 * 3 * # * 2 * 100% * 0.00% * (10% + 0%) * 48) = \$0 0 0 | | | | | | | | | | | | |
| | Small | (1 * \$ | 26.09 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 58) = \$0 0 0 | | | | | | | | | | | | |
| Government | State | (0.50 * \$ | 26.09 * 0 * 3 * # * 2 * 100% * 0.00% * (10% + 0%) * 0) = \$0 0 0 | | | | | | | | | | | | |
| | Local | (1 * \$ | 26.09 * 0 * 1 * 3 * 2 * 100% * 0.00% * (10% + 0%) * 29) = \$0 0 0 | | | | | | | | | | | | |

Table 3

| | | ADMINTIME | NONSUPWAGE | JOBAL | SHIFTS | #SAWIPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | %INHOUSE | %LEARN | #PLANTS | Item 12 COST | TOTAL HOURS | RESPONSES |
|---|-------|---|------------|-------|--------|---------|---------------|----------|----------|----------|--------|---------------|------------------|--------------|--------------|
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | | |
| ALL | Large | (0.5 * \$ 26.75 * 0 * 3 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 18) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Small | (1 * \$ 26.75 * 0 * 3 * 3 * 2 * 100% * 0.00% * (0% + 0%) * 0) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SECTOR 31. Construction Cement Workers | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | (0.5 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 55) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Small | (1.0 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 196) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | State | (0.5 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 16) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Local | (1.0 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (0% + 0%) * 74) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hazardous Waste-site Work | Large | (0.5 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 44) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Small | (1.0 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 143) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | State | (0.5 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 0.00% * (10% + 0%) * 1) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Refractory Brick Restoration | Large | (0.5 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 60.00% * (10% + 0%) * 48) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Small | (1.0 * \$ 30.79 * 0 * 1 * 1 * 2 * 100% * 60.00% * (10% + 0%) * 148) = | \$0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | | | | | | | | | | 77,770 | \$147,017 | 4,930 | 8,048 |

Table 4

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

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

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

Variables:

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

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|---------------------------------|-------|-------------|----------|-----------------|-----------|-----------|----------|----------|---------------|
| Sector 1. Electroplating | | | | | | | | | |
| Hard Chrome | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 49.00% * | 100%) * | 930 | = \$1,167,712 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 49.00% * | 100%) * | 1,751 | = \$2,197,640 |
| Job Shop Chrome Plater | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 11.00% * | 100%) * | 448 | = \$126,301 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 11.00% * | 100%) * | 843 | = \$237,652 |
| Captive Shop Chrome Plater | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 14.00% * | 100%) * | 508 | = \$182,019 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 14.00% * | 100%) * | 955 | = \$342,625 |
| Job Shop Plater | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 10.00% * | 100%) * | 448 | = \$114,819 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 10.00% * | 100%) * | 843 | = \$216,048 |
| Captive Shop Plater | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 13.00% * | 100%) * | 509 | = \$169,646 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 13.00% * | 100%) * | 959 | = \$319,334 |
| Operator | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 16.00% * | 100%) * | 930 | = \$381,294 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 16.00% * | 100%) * | 1,751 | = \$717,597 |
| Sector 2. Welding | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| SMAW | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 0.92% * | 90%) * | 3,560 | = \$75,498 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 0.92% * | 100%) * | 3,989 | = \$93,997 |
| GMAW | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 0.73% * | 90%) * | 2,611 | = \$43,943 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 0.73% * | 100%) * | 2,925 | = \$54,701 |
| TIG | Large | (12 * \$ | 106.73 | * 2 * | 100% * | 0.00% * | 90%) * | 791 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% * | 0.00% * | 100%) * | 886 | = \$0 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--------------------------------|-------|-------------|----------|-----------------|-----------|-----------|--------|----------|--------------|
| SAW | Large | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 316 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 100% |)* 354 | = \$0 |
| Plasma Cutting | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 79 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 100% |)* 89 | = \$0 |
| Plasma Welding | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 79 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 100% |)* 89 | = \$0 |
| Resistance Welding | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 475 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 100% |)* 532 | = \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 18 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 10 | = \$0 |
| GMAW | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 24 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 14 | = \$0 |
| TIG | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 6 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 3 | = \$0 |
| FCAW | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 117 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 66 | = \$0 |
| Plasma Cutting | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 4 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 2 | = \$0 |
| Plasma Welding | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 2 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 1 | = \$0 |
| Oxy-fuel Cutting | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 4 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 2 | = \$0 |
| Air Carbon Arc Cutting | Large | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 2 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 1 | = \$0 |
| Electric Torch Cutting | Large | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 0 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 50% |)* 0 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * | 100% | * 0.00% | * 90% |)* 0 | = \$0 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|------------------------------|-------|-------------|----------|-----------------|-----------|-----------|-----------|----------|--------------|
| SAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |) * 16 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 9 | = | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 202 | = | \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 1,620 | = | \$0 |
| Plasma Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 3 | = | \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 21 | = | \$0 |
| GMAW | Large | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 41 | = | \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 324 | = | \$0 |
| Brazing | Large | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 20 | = | \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 162 | = | \$0 |
| Metallizing | Large | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 4 | = | \$0 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 32 | = | \$0 |
| GOVERNMENT | | | | | | | | | |
| SMAW | State | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 19 | = | \$0 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 594 | = | \$0 |
| Plasma Cutting | State | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 0 | = | \$0 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 8 | = | \$0 |
| GMAW | State | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 4 | = | \$0 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 119 | = | \$0 |
| Brazing | State | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 2 | = | \$0 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 59 | = | \$0 |
| Metallizing | State | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 1 | = | \$0 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 12 | = | \$0 |
| GENERAL INDUSTRY | | | | | | | | | |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| SMAW | Large | (12 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 4,773 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 4,859 | = | \$0 |
| GMAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 3,500 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 3,563 | = | \$0 |
| TIG | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 1,060 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 1,080 | = | \$0 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--------------------------------|-------|-------------|----------|-----------------|-----------|-----------|--------|----------|--------------|
| SAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 424 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |)* | 432 | = \$0 |
| Plasma Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 106 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |)* | 108 | = \$0 |
| Plasma Welding | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 106 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |)* | 108 | = \$0 |
| Resistance Welding | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 636 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |)* | 648 | = \$0 |
| MARITIME | | | | | | | | | |
| SMAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 37 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 21 | = \$0 |
| GMAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 54 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 30 | = \$0 |
| TIG | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 13 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 7 | = \$0 |
| FCAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 251 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 142 | = \$0 |
| Plasma Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 8 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 5 | = \$0 |
| Plasma Welding | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 3 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 2 | = \$0 |
| Oxy-fuel Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 8 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 5 | = \$0 |
| Air Carbon Arc Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 3 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 2 | = \$0 |
| Electric Torch Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 1 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |)* | 1 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |)* | 0 | = \$0 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|---|-------|-------------|----------|-----------------|-----------|-----------|-----------|----------|--------------|
| SAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 50% |) * 33 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 18 | = | \$0 |
| CONSTRUCTION | | | | | | | | | |
| SMAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 304 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 2,293 | = | \$0 |
| Plasma Cutting | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 4 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 30 | = | \$0 |
| GMAW | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 60 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 458 | = | \$0 |
| Brazing | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 30 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 230 | = | \$0 |
| Metallizing | State | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 95% |) * 6 | = | \$0 |
| | Local | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 100% |) * 46 | = | \$0 |
| SECTOR 3. PAINTING | | | | | | | | | |
| AEROSPACE | Large | (12 * \$ | 106.73 | * 2 * 100% | * 28.00% | * 25% |) * 50 | = | \$8,907 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 9.00% | * 75% |) * 63 | = | \$10,815 |
| General Industry (Autobody) | Large | (12 * \$ | 106.73 | * 2 * 100% | * 5.00% | * 25% |) * 331 | = | \$10,603 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 5.00% | * 75% |) * 1,458 | = | \$140,052 |
| General Industry (Coil Coating) | Large | (12 * \$ | 106.73 | * 2 * 100% | * 8.00% | * 25% |) * 101 | = | \$5,184 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 8.00% | * 75% |) * 18 | = | \$2,828 |
| Maritime | Large | (12 * \$ | 106.73 | * 2 * 100% | * 36.00% | * 10% |) * 294 | = | \$27,101 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 36.00% | * 90% |) * 508 | = | \$421,714 |
| Construction | Large | (12 * \$ | 106.73 | * 2 * 100% | * 22.00% | * 25% |) * 765 | = | \$107,791 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 22.00% | * 50% |) * 4,067 | = | \$1,146,094 |
| Government | State | (12 * \$ | 106.73 | * 2 * 100% | * 12.00% | * 25% |) * 16 | = | \$1,248 |
| | Local | (12 * \$ | 106.73 | * 2 * 100% | * 12.00% | * 25% |) * 899 | = | \$69,086 |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 45.00% | * 100% |) * 2 | = | \$2,400 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 0% |) * 0 | = | \$0 |

Table 4

| | | SEMI-CONT | CONT | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|-----------|--------|-----------------|-----------|-----------|---------|----------|--------------|
| SECTOR 5. Chromate Pigment Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 71.00% | * 100% |) * 2 | = | \$3,596 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 50.00% | * 100% |) * 1 | = | \$1,266 |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 33.00% | * 100% |) * 3 | = | \$2,161 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 0% |) * 0 | = | \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | (20 * \$ | 106.73 | * 2 * 100% | * 100% | * 20% |) * 5 | = | \$4,444 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 0% |) * 0 | = | \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 13.00% | * 75% |) * 87 | = | \$21,836 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 13.00% | * 75% |) * 137 | = | \$34,314 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 69.00% | * 90% |) * 3 | = | \$4,792 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 69.00% | * 90% |) * 10 | = | \$15,972 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 51.00% | * 100% |) * 86 | = | \$112,392 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 51.00% | * 100% |) * 42 | = | \$54,974 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 100% | * 80% |) * 4 | = | \$9,053 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 100% | * 75% |) * 3 | = | \$5,658 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 * 100% | * 100% | * 100% |) * 1 | = | \$2,562 |
| | Small | (0 * \$ | 106.73 | * 2 * 0% | * 0.00% | * 0% |) * 0 | = | \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| Alloy and Stainless Steel | Large | (12 * \$ | 106.73 | * 2 * 100% | * 38.00% | * 90% |) * 37 | = | \$32,646 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 38.00% | * 90% |) * 12 | = | \$10,471 |
| Carbon Steel | Large | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 112 | = | \$0 |
| | Small | (0 * \$ | 106.73 | * 2 * 100% | * 0.00% | * 90% |) * 35 | = | \$0 |
| SECTOR 14B. Forging Industry | | | | | | | | | |
| Reshaping | Large | (12 * \$ | 106.73 | * 2 * 100% | * 63.00% | * 90% |) * 37 | = | \$53,102 |
| | Small | (12 * \$ | 106.73 | * 2 * 100% | * 63.00% | * 90% |) * 34 | = | \$50,039 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|-------------|----------|-----------------|-----------|-----------|--------|----------|--------------|
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | (20 * \$ | 106.73 | * 2 | * 100% | * 100% | * 90% |)* 178 | = \$684,794 |
| | Small | (12 * \$ | 106.73 | * 2 | * 100% | * 100% | * 90% |)* 130 | = \$298,819 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 106.73 | * 2 | * 100% | * 38.00% | * 100% |)* 3 | = \$2,887 |
| | Small | (12 * \$ | 106.73 | * 2 | * 100% | * 38.00% | * 100% |)* 1 | = \$962 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 0% |)* 0 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 | * 100% | * 27.00% | * 100% |)* 5 | = \$3,599 |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 100% |)* 207 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 100% |)* 1,561 | = \$0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 347 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 703 | = \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| General Industry | Large | (12 * \$ | 106.73 | * 2 | * 100% | * 25.00% | * 90% |)* 5 | = \$3,126 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 17 | = \$0 |
| Fiber, Flat, Container Glass | Large | (12 * \$ | 106.73 | * 2 | * 100% | * 20.00% | * 90% |)* 78 | = \$35,844 |
| | Small | (12 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 5 | = \$0 |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 92 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 367 | = \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| Catalyst Users | Large | (12 * \$ | 106.73 | * 2 | * 100% | * 9.00% | * 90% |)* 164 | = \$34,115 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 0 | = \$0 |
| Chromium Catalyst Service Companies | Large | (12 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 21 | = \$0 |
| | Small | (12 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 4 | = \$0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 6 | = \$0 |
| | Small | (0 * \$ | 106.73 | * 2 | * 100% | * 0.00% | * 90% |)* 0 | = \$0 |

Table 4

| | | SEMICONTIME | CONTCOST | SEMI - ANNUALLY | % NOTSEMI | % ABOVEAL | % CONT | # PLANTS | Item 13 COST |
|--|-------|-------------|---|-----------------|-----------|-----------|--------|---------------|-----------------------|
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 175 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 93 = \$0 | | | | | | |
| Maritime | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 38 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 34 = \$0 | | | | | | |
| Construction | Large | (12 * \$ | 106.73 * 2 * 100% * 22.00% * 100%) * 1,290 = \$726,821 | | | | | | |
| | Small | (12 * \$ | 106.73 * 2 * 100% * 22.00% * 100%) * 5,162 = \$2,909,238 | | | | | | |
| Government | State | (12 * \$ | 106.73 * 2 * 100% * 22.00% * 100%) * 16 = \$9,154 | | | | | | |
| | Local | (12 * \$ | 106.73 * 2 * 100% * 22.00% * 100%) * 59 = \$33,095 | | | | | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| General Industry | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 48 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 58 = \$0 | | | | | | |
| Government | State | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 25%) * 0 = \$0 | | | | | | |
| | Local | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 29 = \$0 | | | | | | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 18 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 0%) * 0 = \$0 | | | | | | |
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 55 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 196 = \$0 | | | | | | |
| | State | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 16 = \$0 | | | | | | |
| | Local | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 100%) * 74 = \$0 | | | | | | |
| Hazardous Waste-site Work | Large | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 44 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 143 = \$0 | | | | | | |
| | State | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 1 = \$0 | | | | | | |
| Refractory Brick Restoration | Local | (0 * \$ | 106.73 * 2 * 100% * 0.00% * 90%) * 201 = \$0 | | | | | | |
| | Large | (0 * \$ | 106.73 * 2 * 100% * 60.00% * 90%) * 48 = \$0 | | | | | | |
| | Small | (0 * \$ | 106.73 * 2 * 100% * 60.00% * 90%) * 148 = \$0 | | | | | | |
| Total | | | | | | | | 77,770 | = \$13,556,384 |

Table 5

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

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

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

Variables:

- * **SAMPCOST** = Variable cost per sample = \$68
- * **JOBAL** = Number of job categories exposed at or above the AL.
- * **SHIFTS** = Number of work shifts.
- * **#SAMPS** = Number of samples per exposure measurement.
- * **2** = 2 times per year (semi-annual).
- * **%NOTSEMI** = Percent of plants not performing semi-annual monitoring requirements.
- * **%ABOVEAL** = Percent of plants that have an employee in at least one job category at or above the AL.
- * **#PLANTS** = Number of plants represented by the model input.

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|---------------------------------|-------|-------------------------|-------|--------|--------|------|----------|----------|-----------|--------------|
| Sector 1. Electroplating | | | | | | | | | | |
| Hard Chrome | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 49% |) * 930 | = \$372,335 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 49% |) * 1,751 | = \$350,368 |
| Job Shop Chrome Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 11% |) * 448 | = \$40,272 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 11% |) * 843 | = \$37,889 |
| Captive Shop Chrome Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 14% |) * 508 | = \$58,038 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 14% |) * 955 | = \$54,624 |
| Job Shop Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 10% |) * 448 | = \$36,611 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 10% |) * 843 | = \$34,444 |
| Captive Shop Plater | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 13% |) * 509 | = \$54,093 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 13% |) * 959 | = \$50,911 |
| Operator | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 16% |) * 930 | = \$121,579 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 16% |) * 1,751 | = \$114,406 |
| Sector 2. Welding | | General Industry | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0.92% |) * 3,560 | = \$26,748 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0.92% |) * 3,989 | = \$14,986 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0.73% |) * 2,611 | = \$15,568 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0.73% |) * 2,925 | = \$8,721 |
| TIG | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 791 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 886 | = \$0 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--------------------------------|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| SAW | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 316 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 354 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 79 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 89 | = \$0 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 79 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 89 | = \$0 |
| Resistance Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 475 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 532 | = \$0 |
| Maritime | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 18 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 10 | = \$0 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 24 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 14 | = \$0 |
| TIG | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 6 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 3 | = \$0 |
| FCAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 117 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 66 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| Oxy-fuel Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| Air Carbon Arc Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| Electric Torch Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 16 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 9 | = \$0 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--|-------|----------|-------|--------|--------|------|----------|----------|-----------|--------------|
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 202 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 1,620 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 3 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 21 | = \$0 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 41 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 324 | = \$0 |
| Brazing | State | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 20 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 162 | = \$0 |
| Metallizing | State | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 32 | = \$0 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 19 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 594 | = \$0 |
| Plasma Cutting | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 8 | = \$0 |
| GMAW | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 119 | = \$0 |
| Brazing | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 59 | = \$0 |
| Metallizing | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 12 | = \$0 |
| Sector 2. Mild Steel Welding GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 4,773 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 4,859 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 3,500 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 3,563 | = \$0 |
| TIG | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 1,060 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100 | * 0% |) * 1,080 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 424 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 432 | = \$0 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--------------------------------|-------|----------|-------|--------|--------|------|----------|----------|---------|--------------|
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 106 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 108 | = \$0 |
| Plasma Welding | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 106 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 108 | = \$0 |
| Resistance Welding | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 636 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 648 | = \$0 |
| Maritime | | | | | | | | | | |
| SMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 37 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 21 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 54 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 30 | = \$0 |
| TIG | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 13 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 7 | = \$0 |
| FCAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 251 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 142 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 8 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 5 | = \$0 |
| Plasma Welding | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 3 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| Oxy-fuel Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 8 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 5 | = \$0 |
| Air Carbon Arc Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 3 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 2 | = \$0 |
| Electric Torch Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 33 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 2 | * 100% | * 0% |) * 18 | = \$0 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|--|-------|----------|-------|--------|--------|------|----------|----------|-----------|--------------|
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 304 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 2,293 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 30 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 60 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 458 | = \$0 |
| Brazing | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 30 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 230 | = \$0 |
| Metallizing | Large | (\$68 | * 0 | * 3 | * 1 | * 2 | * 100% | * 0% |) * 6 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 46 | = \$0 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| AEROSPACE | Large | (\$68 | * 1 | * 3 | * 3 | * 2 | * 100% | * 28% |) * 50 | = \$17,040 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 9% |) * 63 | = \$2,299 |
| General Industry (Autobody) | Large | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 5% |) * 331 | = \$2,254 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 5% |) * 1,458 | = \$9,924 |
| General Industry (Coil Coating) | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 8% |) * 101 | = \$6,612 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 8% |) * 18 | = \$601 |
| Maritime | Large | (\$68 | * 2 | * 3 | * 1 | * 2 | * 100% | * 36% |) * 294 | = \$86,414 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 36% |) * 508 | = \$0 |
| Construction | Large | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 22% |) * 765 | = \$68,740 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 22% |) * 4,067 | = \$121,814 |
| Government | State | (\$68 | * 1 | * 3 | * 1 | * 2 | * 100% | * 12% |) * 16 | = \$796 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 12% |) * 899 | = \$14,686 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (\$68 | * 3 | * 3 | * 3 | * 2 | * 100% | * 45% |) * 2 | = \$3,443 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (\$68 | * 5 | * 2 | * 3 | * 2 | * 100% | * 71% |) * 2 | = \$5,733 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 50% |) * 1 | = \$202 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|---|-------|----------|-------|--------|--------|------|----------|----------|---------|---------------|
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 1 | * 3 | * 3 | * 2 | * 100% | * 33% |) * 3 | = \$1,034 |
| | Small | (\$68 | * 0 | * 3 | * 0 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 6 | * 3 | * 3 | * 2 | * 100% | * 100% |) * 5 | = \$38,256 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 13% |) * 87 | = \$9,284 |
| | Small | (\$68 | * 1 | * 2 | * 3 | * 2 | * 100% | * 13% |) * 137 | = \$14,588 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 3 | * 1 | * 9 | * 2 | * 100% | * 69% |) * 3 | = \$7,639 |
| | Small | (\$68 | * 2 | * 1 | * 5 | * 2 | * 100% | * 69% |) * 10 | = \$9,431 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (\$68 | * 2 | * 3 | * 3 | * 2 | * 100% | * 51% |) * 86 | = \$107,511 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 100% | * 51% |) * 42 | = \$17,529 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 100% |) * 4 | = \$1,804 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 100% |) * 3 | = \$1,203 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 2 | * 3 | * 3 | * 2 | * 100% | * 100% |) * 1 | = \$2,450 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 0% | * 0% |) * 0 | = \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| Alloy Stainless Steel | Large | (\$68 | * 3 | * 3 | * 3 | * 2 | * 100% | * 38% |) * 37 | = \$52,047 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 38% |) * 12 | = \$1,855 |
| Carbon Steel | Large | (\$68 | * 0 | * 3 | * 3 | * 2 | * 100% | * 0% |) * 112 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 35 | = \$0 |
| 14B. Forging Industry | | | | | | | | | | |
| Forging Industry | Large | (\$68 | * 4 | * 1 | * 3 | * 2 | * 100% | * 63% |) * 37 | = \$37,627 |
| | Small | (\$68 | * 2 | * 1 | * 3 | * 2 | * 100% | * 63% |) * 34 | = \$17,728 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | (\$68 | * 6 | * 3 | * 5 | * 2 | * 100% | * 100% |) * 178 | = \$2,183,523 |
| | Small | (\$68 | * 5 | * 1 | * 5 | * 2 | * 100% | * 100% |) * 130 | = \$441,116 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|---------------------------------------|-------|----------|-------|--------|--------|------|----------|----------|-----------|--------------|
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 6 | * 1 | * 21 | * 2 | * 100% | * 38% |) * 3 | = \$19,331 |
| | Small | (\$68 | * 6 | * 1 | * 7 | * 2 | * 100% | * 38% |) * 1 | = \$2,148 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 2 | * 100% | * 27% |) * 5 | = \$574 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 207 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 1,561 | = \$0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 2 | * 100% | * 0% |) * 347 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 2 | * 2 | * 100% | * 0% |) * 703 | = \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| General Industry | Large | (\$68 | * 1 | * 3 | * 12 | * 2 | * 100% | * 25% |) * 5 | = \$6,645 |
| | Small | (\$68 | * 0 | * 1 | * 4 | * 2 | * 100% | * 0% |) * 17 | = \$0 |
| Fiber, Flat, and Container Glass | Large | (\$68 | * 3 | * 1 | * 1 | * 2 | * 100% | * 20% |) * 78 | = \$6,350 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 5 | = \$0 |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 2 | * 2 | * 100% | * 0% |) * 92 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 2 | * 2 | * 100% | * 0% |) * 367 | = \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| Catalyst User | Large | (\$68 | * 2 | * 3 | * 3 | * 2 | * 100% | * 9% |) * 164 | = \$36,259 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| Chromium Catalyst Service Companies | Large | (\$68 | * 0 | * 3 | * 3 | * 2 | * 100% | * 0% |) * 21 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 4 | = \$0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 15 | * 2 | * 100% | * 0% |) * 6 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 0 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SECTOR 26. Woodworking | | | | | | | | | | |
| General Industry | Large | (\$68 | * 0 | * 1 | * 2 | * 2 | * 100% | * 0% |) * 175 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 2 | * 2 | * 100% | * 0% |) * 93 | = \$0 |
| Maritime | Large | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 38 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 34 | = \$0 |

Table 5

| | | SAMPCOST | JOBAL | SHIFTS | #SAMPS | SEMI | %NOTSEMI | %ABOVEAL | #PLANTS | Item 13 COST |
|---|-------|----------|-------|--------|--------|------|----------|----------|---------------|--------------------|
| Construction | Large | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 22% |) * 1,290 | = \$38,626 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 22% |) * 5,162 | = \$154,606 |
| Government | State | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 22% |) * 16 | = \$486 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 2 | * 100% | * 22% |) * 59 | = \$1,759 |
| SECTOR 27. Solid Waste Incineration 2 | | | | | | | | | | |
| General Industry | Large | (\$68 | * 0 | * 3 | * 15 | * 2 | * 100% | * 0% |) * 48 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 58 | = \$0 |
| Government | State | (\$68 | * 0 | * 3 | * 15 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| | Local | (\$68 | * 0 | * 1 | * 3 | * 2 | * 100% | * 0% |) * 29 | = \$0 |
| SECTOR 30. Superalloy Producers and Users 2 | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 2 | * 100% | * 0% |) * 18 | = \$0 |
| | Small | (\$68 | * 0 | * 3 | * 3 | * 2 | * 100% | * 0% |) * 0 | = \$0 |
| SECTOR 31. Construction | | | | | | | | | | |
| Industrial Rehabilitation | Large | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 55 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 196 | = \$0 |
| | State | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 16 | = \$0 |
| | Local | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 74 | = \$0 |
| Hazardous Waste-site Work | Large | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 44 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 143 | = \$0 |
| | State | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 1 | = \$0 |
| | Local | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 0% |) * 201 | = \$0 |
| Refractory Brick Restoration | Large | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 60% |) * 48 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 2 | * 100% | * 60% |) * 148 | = \$0 |
| TOTAL | | | | | | | | | 77,770 | \$4,943,561 |

Table 6

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

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

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

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

Variable

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

| | | ADMINTIME | NONSUPEWAGE | JOBPEL | SHIFTS | #SAMPS | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|---------------------------------|-------|-------------|-------------|--------|--------|------------|----------------------------|------------|-----------|-----------|----------|---------------|-------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | | |
| Hard Chrome | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 0% | * (0% + 0)) * | 930 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 1,751 | = | \$0 | = | 0 | 0 | |
| Job Shop Chrome Plater | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 448 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 843 | = | \$0 | = | 0 | 0 | |
| Captive Shop Chrome Plater | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 508 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 955 | = | \$0 | = | 0 | 0 | |
| Job Shop Plater | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 448 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 843 | = | \$0 | = | 0 | 0 | |
| Captive Shop Plater | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 509 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 959 | = | \$0 | = | 0 | 0 | |
| Operator | Large | (0.50 * \$ | 25.49 * 0 | * 2 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 930 | = | \$0 | = | 0 | 0 | |
| | Small | (0.50 * \$ | 25.49 * 1 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 1,751 | = | \$0 | = | 0 | 0 | |
| Sector 2. Welding | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 * 100% | * 4.85% * (10% + 0%)) * | 3,560 | = | \$130,519 | = | 5,200 | 414 | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 * 100% | * 4.84% * (0% + 0%)) * | 3,989 | = | \$0 | = | 0 | 0 | |
| GMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 * 100% | * 0.37% * (10 + 0%)) * | 2,611 | = | \$730,387 | = | 29,099 | 2,180 | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 * 100% | * 0.38% * (0% + 0%)) * | 2,925 | = | \$0 | = | 0 | 0 | |
| TIG | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 * 100% | * 0% * (10% + 0%)) * | 791 | = | \$0 | = | 0 | 0 | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 886 | = | \$0 | = | 0 | 0 | |
| SAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 2 | * 4 * 100% | * 0% * (10% + 0%)) * | 316 | = | \$0 | = | 0 | 0 | |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 354 | = | \$0 | = | 0 | 0 | |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 * 100% | * 0% * (10% + 0%)) * | 79 | = | \$0 | = | 0 | 0 | |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 * 100% | * 0% * (0% + 0%)) * | 89 | = | \$0 | = | 0 | 0 | |

Table 6

| | | ADMINTIME | NONSUPEWAGE | JOBPEL | SHIFTS | # SAMPs | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|--------------------------------|-------|-------------|-------------|--------|--------|---------|------------|------------|---------------|---------|----------|---------------|-------------|-----------|
| Plasma Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 79 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 89 = | \$0 = | 0 | 0 |
| Resistance Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 475 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 532 = | \$0 = | 0 | 0 |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 18 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 10 = | \$0 = | 0 | 0 |
| GMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 24 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 14 = | \$0 = | 0 | 0 |
| TIG | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 6 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 3 = | \$0 = | 0 | 0 |
| FCAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 117 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 66 = | \$0 = | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 4 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 2 = | \$0 = | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 2 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 1 = | \$0 = | 0 | 0 |
| Oxy-fuel Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 4 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 2 = | \$0 = | 0 | 0 |
| Air Carbon Arc Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 2 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 1 = | \$0 = | 0 | 0 |
| Electric Torch Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 0 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 0 = | \$0 = | 0 | 0 |
| Thermal Spray Tungsten Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 0 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 0 = | \$0 = | 0 | 0 |
| SAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% * | 0% | *(50% + 0%) | * | 16 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 2 | * 1 | * 4 | * 100% * | 0% | *(10% + 0%) | * | 9 = | \$0 = | 0 | 0 |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(5% + 0%) | * | 202 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 1,620 = | \$0 = | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% * | 0% | *(5% + 0%) | * | 3 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 21 = | \$0 = | 0 | 0 |
| GMAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% * | 0% | *(5% + 0%) | * | 41 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 324 = | \$0 = | 0 | 0 |
| Brazing | State | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(5% + 0%) | * | 20 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 162 = | \$0 = | 0 | 0 |
| Metallizing | State | (0.50 * \$ | 25.10 * 1 | * 3 | * 1 | * 4 | * 100% * | 0% | *(5% + 0%) | * | 4 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 4 | * 100% * | 0% | *(0% + 0%) | * | 32 = | \$0 = | 0 | 0 |

Table 6

| | | ADMINTIME | NONSUPEWAGE | JOBPEL | SHIFTS | # SAMPs | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|-------------------------------------|-------|-------------|-------------|--------|--------|---------|------------|------------|----------------|---------|----------|---------------|-------------|-----------|
| GOVERNMENT | | | | | | | | | | | | | | |
| SMAW | State | (0.50 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (5% + 0%) | * | 19 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (0% + 0%) | * | 594 = | \$0 = | 0 | 0 |
| Plasma Cutting | State | (0.50 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (5% + 0%) | * | 0 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (0% + 0%) | * | 8 = | \$0 = | 0 | 0 |
| GMAW | State | (0.50 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (5% + 0%) | * | 4 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (0% + 0%) | * | 119 = | \$0 = | 0 | 0 |
| Brazing | State | (0.50 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (5% + 0%) | * | 2 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (0% + 0%) | * | 59 = | \$0 = | 0 | 0 |
| Metallizing | State | (0.50 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (5% + 0%) | * | 1 = | \$0 = | 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 1 | * 1 | * 1 | * 1 | * 4 * 100% | * 0% | * (0% + 0%) | * | 12 = | \$0 = | 0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | | | | | |
| General Industry | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 4,773 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 4,859 = | \$0 = | 0 | 0 |
| GMAW | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 3,500 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 3,563 = | \$0 = | 0 | 0 |
| TIG | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 1,060 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 1,080 = | \$0 = | 0 | 0 |
| SAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 424 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 432 = | \$0 = | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 106 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 108 = | \$0 = | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 106 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 108 = | \$0 = | 0 | 0 |
| Resistance Welding | Large | (0.50 * \$ | 25.10 * 1 | * 3 | * 2 | * 2 | * 4 * 100% | * 0% | * (10% + 0%) | * | 636 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 1 | * 1 | * 3 | * 3 | * 4 * 100% | * 0% | * (0% + 0%) | * | 648 = | \$0 = | 0 | 0 |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 37 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 21 = | \$0 = | 0 | 0 |
| GMAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 54 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 30 = | \$0 = | 0 | 0 |
| TIG | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 13 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 7 = | \$0 = | 0 | 0 |
| FCAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 251 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 142 = | \$0 = | 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 8 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 5 = | \$0 = | 0 | 0 |
| Plasma Welding | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 1 | * 4 * 100% | * 0% | * (50% + 0%) | * | 3 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 1 | * 4 * 100% | * 0% | * (10% + 0%) | * | 2 = | \$0 = | 0 | 0 |

Table 6

| | | ADMIN TIME | NONSUPERWAGE | JOBPEL | SHIFTS | # SAMPS | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|--|-------|-------------|--------------|--------|--------|---------|------------|------------|----------------|---------|----------|---------------|-------------|-----------|
| Oxy-fuel Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (50% + 0%) | * | 8 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) | * | 5 | = \$0 | = 0 | 0 |
| Air Carbon Arc Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (50% + 0%) | * | 3 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) | * | 2 | = \$0 | = 0 | 0 |
| Electric Torch Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (50% + 0%) | * | 1 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) | * | 0 | = \$0 | = 0 | 0 |
| Thermal Spray Tungsten Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (50% + 0%) | * | 1 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) | * | 0 | = \$0 | = 0 | 0 |
| SAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (50% + 0%) | * | 33 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 2 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) | * | 18 | = \$0 | = 0 | 0 |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (5% + 0%) | * | 304 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 2,293 | = \$0 | = 0 | 0 |
| Plasma Cutting | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (5% + 0%) | * | 4 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 30 | = \$0 | = 0 | 0 |
| GMAW | Large | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (5% + 0%) | * | 60 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 25.10 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 458 | = \$0 | = 0 | 0 |
| Brazing | State | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (5% + 0%) | * | 30 | = \$0 | = 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 230 | = \$0 | = 0 | 0 |
| Metallizing | State | (0.50 * \$ | 25.10 * 0 | * 3 | * 1 | * 4 | * 100% | * 0% | * (5% + 0%) | * | 6 | = \$0 | = 0 | 0 |
| | Local | (1.00 * \$ | 25.10 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 46 | = \$0 | = 0 | 0 |
| SECTOR 3. PAINTING | | | | | | | | | | | | | | |
| AEROSPACE | Large | (0.50 * \$ | 31.68 * 1 | * 3 | * 3 | * 4 | * 100% | * 28% | * (75% + 0%) | * | 50 | = \$188,424 | = 5,948 | 390 |
| | Small | (1.00 * \$ | 31.68 * 1 | * 1 | * 3 | * 4 | * 100% | * 9% | * (25% + 0%) | * | 63 | = \$16,948 | = 535 | 17 |
| AUTOBODY | Large | (0.50 * \$ | 31.68 * 0 | * 1 | * 1 | * 4 | * 100% | * 5% | * 75% + 0% | * | 331 | = \$0 | = 0 | 50 |
| | Small | (1.00 * \$ | 31.68 * 2 | * 1 | * 1 | * 4 | * 100% | * 5% | * 25% + 0% | * | 1,458 | = \$146,312 | = 4,619 | 146 |
| COIL COATING | Large | (0.50 * \$ | 31.68 * 0 | * 2 | * 3 | * 4 | * 100% | * 8% | * 75% + 0% | * | 101 | = \$0 | = 0 | 150 |
| | Small | (1.00 * \$ | 31.68 * 0 | * 1 | * 3 | * 4 | * 100% | * 8% | * 25% + 0% | * | 18 | = \$0 | = 0 | 0 |
| MARITIME | Large | (0.50 * \$ | 31.68 * 1 | * 3 | * 1 | * 4 | * 100% | * 36% | * 90% + 0% | * | 294 | = \$573,329 | = 18,098 | 1,143 |
| | Small | (1.00 * \$ | 31.68 * 1 | * 1 | * 1 | * 4 | * 100% | * 36% | * 10% + 0% | * | 508 | = \$73,427 | = 2,318 | 73 |
| CONSTRUCTION | Large | (0.50 * \$ | 31.68 * 1 | * 3 | * 1 | * 4 | * 100% | * 22% | * 75% + 0% | * | 765 | = \$760,110 | = 23,995 | 2,056 |
| | Small | (1.00 * \$ | 31.68 * 1 | * 1 | * 1 | * 4 | * 100% | * 22% | * 50% + 0% | * | 4,067 | = \$1,795,985 | = 56,694 | 1,790 |
| GOVERNMENT | Large | (0.50 * \$ | 31.68 * 1 | * 3 | * 1 | * 4 | * 100% | * 12% | * 75% + 0% | * | 16 | = \$8,802 | = 278 | 18 |
| | Small | (1.00 * \$ | 31.68 * 1 | * 1 | * 1 | * 4 | * 100% | * 12% | * 75% + 0% | * | 899 | = \$324,784 | = 10,253 | 324 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 37.06 * 0 | * 3 | * 3 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 2 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 37.06 * 0 | * 1 | * 3 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 0 | = \$0 | = 0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 36.12 * 1 | * 2 | * 3 | * 4 | * 100% | * 77% | * (0% + 0%) | * | 2 | = \$0 | = 0 | 0 |
| | Small | (1.00 * \$ | 36.12 * 0 | * 1 | * 3 | * 4 | * 100% | * 0% | * (0% + 0%) | * | 1 | = \$0 | = 0 | 0 |

Table 6

| | | ADMINTIME | NONSUPEWAGE | JOBPEL | SHIFTS | # SAMP | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|---|-------|-------------|---|--------|--------|--------|------------|------------|-----------|---------|----------|---------------|-------------|-----------|
| SECTOR 6. CCA Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 30.60 * 0 * 3 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 3 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 30.60 * 0 * 3 * 0 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 37.06 * 0 * 3 * 3 * 4 * 100% * 0% * (80% + 0%)) * | | | | | | | | 5 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 37.06 * 0 * 1 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.60 * 0 * 2 * 3 * 4 * 100% * 0% * (25% + 75%)) * | | | | | | | | 87 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 27.60 * 0 * 2 * 3 * 4 * 100% * 0% * (25% + 75%)) * | | | | | | | | 137 = | \$0 = | 0 | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.65 * 0 * 1 * 9 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 3 = | \$0 = | 0 | 0 |
| | Small | (0.50 * \$ | 27.65 * 0 * 1 * 5 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 10 = | \$0 = | 0 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 30.64 * 3 * 3 * 3 * 4 * 100% * 36% * (0% + 0%)) * | | | | | | | | 86 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 30.64 * 5 * 1 * 3 * 4 * 100% * 36% * (0% + 0%)) * | | | | | | | | 42 = | \$0 = | 0 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.50 * 0 * 1 * 3 * 4 * 100% * 0% * (20% + 0%)) * | | | | | | | | 4 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 27.50 * 0 * 1 * 3 * 4 * 100% * 0% * (25% + 0%)) * | | | | | | | | 3 = | \$0 = | 0 | 0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 37.17 * 0 * 3 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 1 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 37.17 * 0 * 1 * 1 * 4 * 0% * 0% * (0% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | (0.50 * \$ | 37.17 * 0 * 3 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 37 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 37.17 * 0 * 1 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 12 = | \$0 = | 0 | 0 |
| Carbon Steel | Large | (0.50 * \$ | 37.17 * 0 * 3 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 112 = | \$0 = | 0 | 0 |
| | Small | (1.00 * \$ | 37.17 * 0 * 1 * 1 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 35 = | \$0 = | 0 | 0 |
| SECTOR 14B. Forging Industry | | | | | | | | | | | | | | |
| Reshaping | Large | (0.50 * \$ | 37.17 * 0 * 1 * 3 * 4 * 100% * 63% * (10% + 0%)) * | | | | | | | | 37 = | \$0 = | 0 | 28 |
| | Small | (1.00 * \$ | 37.17 * 0 * 1 * 3 * 4 * 100% * 63% * (10% + 0%)) * | | | | | | | | 34 = | \$0 = | 0 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.12 * 0 * 3 * 5 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 178 = | \$0 = | 0 | 0 |
| | Small | (1 * \$ | 27.12 * 0 * 1 * 5 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 130 = | \$0 = | 0 | 0 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 36.12 * 7 * 1 * 21 * 4 * 100% * 62% * (0% + 0%)) * | | | | | | | | 3 = | \$0 = | 0 | 0 |
| | Small | (1 * \$ | 36.12 * 5 * 1 * 7 * 4 * 100% * 62% * (0% + 0%)) * | | | | | | | | 1 = | \$0 = | 0 | 0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 39.76 * 0 * 1 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 | 0 |
| | Small | (0.50 * \$ | 39.76 * 0 * 1 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 5 = | \$0 = | 0 | 0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 28.67 * 0 * 1 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 207 = | \$0 = | 0 | 0 |
| | Small | (0.50 * \$ | 28.67 * 0 * 1 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 1,561 = | \$0 = | 0 | 0 |

Table 6

| | | ADMTIME | NONSUPEWAGE | JOBPEL | SHIFTS | # SAMP | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|---|-------|-------------|---|--------|--------|--------|------------|------------|-----------|---------|----------|---------------|-------------|-----------|
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 19.13 * 0 * 3 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 347 = | \$0 = | 0 = | 0 |
| | Small | (0.50 * \$ | 19.13 * 0 * 1 * 2 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 703 = | \$0 = | 0 = | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 27.66 * 0 * 3 * 12 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 5 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 27.66 * 0 * 1 * 4 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 17 = | \$0 = | 0 = | 0 |
| Fiber, Flat, Container Glass | Large | (0.50 * \$ | 27.66 * 1 * 1 * 1 * 4 * 100% * 20% * (10% + 0%)) * | | | | | | | | 78 = | \$2,379 = | 86 = | 6 |
| | Small | (1.00 * \$ | 27.66 * 1 * 1 * 1 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 5 = | \$0 = | 0 = | 0 |
| SECTOR 22. Printing | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 19.97 * 0 * 3 * 2 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 92 = | \$0 = | 0 = | 0 |
| | Small | (0.50 * \$ | 19.97 * 0 * 1 * 2 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 367 = | \$0 = | 0 = | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | |
| Catalyst Users | Large | (0.50 * \$ | 31.14 * 0 * 3 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 164 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 31.14 * 0 * 1 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 = | 0 |
| Chromium Catalyst Service Companies | Large | (0.50 * \$ | 31.14 * 0 * 3 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 21 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 31.14 * 0 * 1 * 3 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 4 = | \$0 = | 0 = | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 24.56 * 0 * 1 * 15 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 6 = | \$0 = | 0 = | 0 |
| | Small | (0.50 * \$ | 24.56 * 0 * 1 * 0 * 4 * 100% * 0% * (10% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 = | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | |
| General Industry | Large | (0.50 * \$ | 30.76 * 0 * 1 * 2 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 175 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 30.76 * 0 * 1 * 2 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 93 = | \$0 = | 0 = | 0 |
| Maritime | Large | (0.50 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 38 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 34 = | \$0 = | 0 = | 0 |
| Construction | Large | (0.50 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 22% * (0% + 0%)) * | | | | | | | | 1,290 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 22% * (0% + 0%)) * | | | | | | | | 5,162 = | \$0 = | 0 = | 0 |
| Government | STATE | (0.50 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 22% * (0% + 0%)) * | | | | | | | | 16 = | \$0 = | 0 = | 0 |
| | LOCAL | (1.00 * \$ | 30.76 * 0 * 1 * 1 * 4 * 100% * 22% * (0% + 0%)) * | | | | | | | | 59 = | \$0 = | 0 = | 0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.50 \$ | 26.09 * 0 * 3 * 15 * 4 * 100% * 0% * (10% * 0%)) * | | | | | | | | 48 = | \$0 = | 0 = | 0 |
| | Small | (1.00 \$ | 26.09 * 0 * 1 * 3 * 4 * 100% * 0% * (10% * 0%)) * | | | | | | | | 58 = | \$0 = | 0 = | 0 |
| GOVERNMENT | STATE | (0.50 \$ | 26.09 * 0 * 3 * 15 * 4 * 100% * 0% * (10% * 0%)) * | | | | | | | | 0 = | \$0 = | 0 = | 0 |
| | LOCAL | (1.00 \$ | 26.09 * 0 * 1 * 3 * 4 * 100% * 0% * (10% * 0%)) * | | | | | | | | 29 = | \$0 = | 0 = | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | |
| ALL | Large | (0.50 * \$ | 26.75 * 0 * 3 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 18 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 26.75 * 0 * 3 * 3 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 0 = | \$0 = | 0 = | 0 |
| SECTOR 31. Construction | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | (0.50 * \$ | 30.79 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 55 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 30.79 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 196 = | \$0 = | 0 = | 0 |
| | State | (0.50 * \$ | 30.79 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 16 = | \$0 = | 0 = | 0 |
| | Local | (1.00 * \$ | 30.79 * 0 * 1 * 1 * 4 * 100% * 0% * (0% + 0%)) * | | | | | | | | 74 = | \$0 = | 0 = | 0 |

Table 6

| | | ADMINTIME | NONSUPEWAGE | JOBPEL | SHIFTS | # SAMPs | % NOTQUART | % ABOVEPEL | % INHOUSE | % LEARN | # PLANTS | Item 12 COSTS | TOTAL HOURS | RESPONSES |
|------------------------------|-------|-------------|-------------|--------|--------|---------|------------|------------|----------------|---------|---------------|--------------------|----------------|--------------|
| Hazardous Waste-site Work | Large | (0.50 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) |)* | 44 = | \$0 = | 0 = | 0 |
| | Small | (1.00 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) |)* | 143 = | \$0 = | 0 = | 0 |
| | State | (0.50 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) |)* | 1 = | \$0 = | 0 = | 0 |
| | Local | (1.00 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 0% | * (10% + 0%) |)* | 201 = | \$0 = | 0 = | 0 |
| Refractory Brick Restoration | Large | (0.50 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 60% | * (10% + 0%) |)* | 48 = | \$0 = | 0 = | 12 |
| | Small | (1.00 * \$ | 30.79 * 0 | * 1 | * 1 | * 4 | * 100% | * 60% | * (10% + 0%) |)* | 148 = | \$0 = | 0 = | 0 |
| Total | | | | | | | | | | | 77,770 | \$4,751,407 | 157,122 | 8,795 |

Table 7

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

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

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

Variable

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

| | QUARTCONTTIME | CONTCOST | QUARTERLY | %NOTQUART | %ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|---------------------------------|---------------|-------------|-----------|-----------|-----------|--------|-----------|---------------|
| Sector 1. Electroplating | | | | | | | | |
| Hard Chrome | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 930 | = \$0 |
| | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 1,751 | = \$0 |
| Job Shop Chrome Plater | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 448 | = \$0 |
| | (12 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 843 | = \$0 |
| Captive Shop Chrome | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 508 | = \$0 |
| | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 955 | = \$0 |
| Job Shop Plater | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 448 | = \$0 |
| | (12 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 843 | = \$0 |
| Captive Shop Plater | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 509 | = \$0 |
| | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 959 | = \$0 |
| Operator | (0 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 930 | = \$0 |
| | (12 | * \$ 106.73 | * 4 | * 100% | * (0.00% | * 100% |) * 1,751 | = \$0 |
| Sector 2. Welding | | | | | | | | |
| SMAW | (12 | * \$ 106.73 | * 4 | * 100% | * (4.85% | * 90% |) * 3,560 | = \$796,011 |
| | (12 | * \$ 106.73 | * 4 | * 100% | * (4.84% | * 100% |) * 3,989 | = \$989,012 |
| GMAW | (12 | * \$ 106.73 | * 4 | * 100% | * (0.37% | * 90% |) * 2,611 | = \$44,545 |
| | (12 | * \$ 106.73 | * 4 | * 100% | * (0.38% | * 100% |) * 2,925 | = \$56,949 |

Table 7

| | QUARTCONTIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|------------------------|--|----------|-----------|-----------|------------|-------|--------|---------------|
| TIG | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 791 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 886 = \$0 | | | | | | | |
| SAW | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 316 = \$0 | | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 354 = \$0 | | | | | | | |
| Plasma Cutting | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 79 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 89 = \$0 | | | | | | | |
| Plasma Welding | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 79 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 89 = \$0 | | | | | | | |
| Resistance Welding | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 475 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 532 = \$0 | | | | | | | |
| MARITIME | | | | | | | | |
| SMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 18 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 10 = \$0 | | | | | | | |
| GMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 24 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 14 = \$0 | | | | | | | |
| TIG | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 6 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 3 = \$0 | | | | | | | |
| FCAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 117 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 66 = \$0 | | | | | | | |
| Plasma Cutting | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 4 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 2 = \$0 | | | | | | | |
| Plasma Welding | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 2 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 1 = \$0 | | | | | | | |
| Oxy-fuel Cutting | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 4 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 2 = \$0 | | | | | | | |
| Air Carbon Arc Cutting | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 2 = \$0 | | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 1 = \$0 | | | | | | | |
| Electric Torch Cutting | (0 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 0 = \$0 | | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 0 = \$0 | | | | | | | |

Table 7

| | QUART | CONT | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--------------------------------|---|--|-----------|-----------|------------|-------|--------|---------------|
| Thermal Spray Tungsten Cutting | (0 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 0 = \$0 | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 0 = \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 16 = \$0 | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 9 = \$0 | | | | | | |
| CONSTRUCTION | | | | | | | | |
| SMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 202 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 1,620 = \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 3 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 21 = \$0 | | | | | | |
| Plasma Cutting | (0 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 41 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 324 = \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 20 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 162 = \$0 | | | | | | |
| GMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 4 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 32 = \$0 | | | | | | |
| | GOVERNMENT | | | | | | | |
| SMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 19 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 594 = \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 0 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 8 = \$0 | | | | | | |
| Plasma Cutting | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 4 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 119 = \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 2 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 59 = \$0 | | | | | | |
| GMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 1 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 12 = \$0 | | | | | | |
| | Sector 2. Mild Steel Welding | | | | | | | |
| SMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 4,773 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 4,859 = \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 3,500 = \$0 | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 3,563 = \$0 | | | | | | |
| GMAW | | | | | | | | |

Table 7

| | QUARTCONTIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|------------------------|--|----------|-----------|-----------|------------|-------|--------|---------------|
| TIG | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 1,060 = | \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 1,080 = | \$0 | | | | | | |
| SAW | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 424 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 432 = | \$0 | | | | | | |
| Plasma Cutting | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 106 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 108 = | \$0 | | | | | | |
| Plasma Welding | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 106 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 108 = | \$0 | | | | | | |
| Resistance Welding | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 636 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 648 = | \$0 | | | | | | |
| MARITIME | | | | | | | | |
| SMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 37 = | \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 21 = | \$0 | | | | | | |
| GMAW | (12 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 54 = | \$0 | | | | | | |
| | (12 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 30 = | \$0 | | | | | | |
| TIG | (0 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 13 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 7 = | \$0 | | | | | | |
| FCAW | (0 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 251 = | \$0 | | | | | | |
| | (0 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 142 = | \$0 | | | | | | |
| Plasma Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 8 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 5 = | \$0 | | | | | | |
| Plasma Welding | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 3 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 2 = | \$0 | | | | | | |
| Oxy-fuel Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 8 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 5 = | \$0 | | | | | | |
| Air Carbon Arc Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 3 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 2 = | \$0 | | | | | | |
| Electric Torch Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 1 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 0 = | \$0 | | | | | | |

Table 7

| | QUARTCONTIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|---|-------------|-----------|-----------|------------|-------|--------|---------------|
| Thermal Spray Tungsten Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 1 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 0 = | \$0 | | | | | | |
| SAW | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 50%) * 33 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 18 = | \$0 | | | | | | |
| CONSTRUCTION | | | | | | | | |
| SMAW | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 304 = | \$0 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 2,293 = | \$0 | | | | | | |
| Plasma Cutting | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 4 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 30 = | \$0 | | | | | | |
| GMAW | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 60 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 458 = | \$0 | | | | | | |
| Brazing | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 30 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 230 = | \$0 | | | | | | |
| Metallizing | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 95%) * 6 = | \$0 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 46 = | \$0 | | | | | | |
| SECTOR 3. PAINTING | | | | | | | | |
| AEROSPACE | (12.00 * \$ 106.73 * 4 * 100% * (28.00% * 25%) * 50 = | \$17,814 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (9.00% * 75%) * 63 = | \$21,631 | | | | | | |
| AUTOBODY | (12.00 * \$ 106.73 * 4 * 100% * (5.00% * 25%) * 331 = | \$21,207 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (5.00% * 75%) * 1,458 = | \$280,104 | | | | | | |
| MARITIME | (12.00 * \$ 106.73 * 4 * 100% * (36.00% * 10%) * 101 = | \$18,662 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (36.00% * 90%) * 18 = | \$30,538 | | | | | | |
| COIL COATING | (12.00 * \$ 106.73 * 4 * 100% * (8.00% * 25%) * 294 = | \$30,112 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (8.00% * 75%) * 508 = | \$156,190 | | | | | | |
| CONSTRUCTION | (12.00 * \$ 106.73 * 4 * 100% * (22.00% * 25%) * 765 = | \$215,582 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (22.00% * 50%) * 4,067 = | \$2,292,189 | | | | | | |
| GOVERNMENT | (12.00 * \$ 106.73 * 4 * 100% * (12.00% * 25%) * 16 = | \$2,497 | | | | | | |
| | (12.00 * \$ 106.73 * 4 * 100% * (12.00% * 25%) * 899 = | \$138,173 | | | | | | |
| SECTOR 4. Producers of Chromates | | | | | | | | |
| ALL | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 2 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 0%) * 0 = | \$0 | | | | | | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | |

Table 7

| | QUARTCONT | TIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS | | | | | | | | | |
|---|-----------|-------|----------|-----------|-----------|------------|-------|--------|---------------|---|--------|---|------|---|---|-----|---|-----------|
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 77.00% | * | 100% |) | * | 2 | = | \$7,800 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 1 | = | \$0 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 3 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 0% |) | * | 0 | = | \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 20% |) | * | 5 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 0% |) | * | 0 | = | \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 75% |) | * | 87 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 75% |) | * | 137 | = | \$0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 3 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 10 | = | \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 36.00% | * | 100% |) | * | 86 | = | \$158,671 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 36.00% | * | 100% |) | * | 42 | = | \$77,611 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 80% |) | * | 4 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 75% |) | * | 3 | = | \$0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 1 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 0% | * | (| 0.00% | * | 0% |) | * | 0 | = | \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 37 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 12 | = | \$0 |
| CARBON STEEL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 112 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 35 | = | \$0 |
| SECTOR 14B. FORGING INDUSTRY | | | | | | | | | | | | | | | | | | |
| RESHAPING | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 63.00% | * | 90% |) | * | 37 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 63.00% | * | 90% |) | * | 34 | = | \$0 |

Table 7

| | QUARTCON | TIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS | | | | | | | | | |
|--|----------|-------|----------|-----------|-----------|------------|-------|--------|---------------|---|--------|---|------|---|---|-------|---|----------|
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 178 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 130 | = | \$0 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 62.00% | * | 100% |) | * | 3 | = | \$9,421 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 62.00% | * | 100% |) | * | 1 | = | \$3,140 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 0% |) | * | 0 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 5 | = | \$0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | | | | | | |
| ALL | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 207 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 1,561 | = | \$0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 347 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 703 | = | \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | | | | | | |
| General Industry | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 5 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 17 | = | \$0 |
| Fiber, Flat and Container Glass | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 20.00% | * | 90% |) | * | 78 | = | \$71,689 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 5 | = | \$0 |
| SECTOR 22. Printing | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 92 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 367 | = | \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | | | | | |
| CATALYST USER | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 164 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 0 | = | \$0 |
| CATALYST SERVICE COMPANIES | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 21 | = | \$0 |
| | (| 12.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 4 | = | \$0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 6 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 90% |) | * | 0 | = | \$0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | | | | | |
| ALL | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 175 | = | \$0 |
| | (| 0.00 | * | \$ 106.73 | * | 4 | * | 100% | * | (| 0.00% | * | 100% |) | * | 93 | = | \$0 |

Table 7

| | QUARTCONTIME | CONTCOST | QUARTERLY | %NOTQUART | *%ABOVEPEL | %CONT | PLANTS | Item 13 COSTS |
|--|---|---------------|--------------------|-----------|------------|-------|--------|---------------|
| MARITIME | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 38 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 34 = | \$0 | | | | | | |
| CONSTRUCTION | (0.00 * \$ 106.73 * 4 * 100% * (22.00% * 100%) * 1,290 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (22.00% * 100%) * 5,162 = | \$0 | | | | | | |
| GOVERNMENT | (0.00 * \$ 106.73 * 4 * 100% * (22.00% * 100%) * 16 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (22.00% * 100%) * 59 = | \$0 | | | | | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | |
| GENERAL INDUSTRY | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 48 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 58 = | \$0 | | | | | | |
| GOVERNMENT | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 25%) * 0 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 29 = | \$0 | | | | | | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | |
| ALL | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 18 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 0%) * 0 = | \$0 | | | | | | |
| SECTOR 31. Construction | | | | | | | | |
| Industrial Rehabilitation | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 55 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 196 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 16 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 100%) * 74 = | \$0 | | | | | | |
| Hazardous Waste-site Work | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 44 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 143 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 1 = | \$0 | | | | | | |
| Refractory Brick Restoration | (0.00 * \$ 106.73 * 4 * 100% * (0.00% * 90%) * 201 = | \$0 | | | | | | |
| | (0.00 * \$ 106.73 * 4 * 100% * (60.00% * 90%) * 48 = | \$0 | | | | | | |
| Total | | 77,770 | \$5,439,545 | | | | | |

Table 8

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

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

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

Variables

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

| | | SAMPCOST | JOBPEL | SHIFTS | \#SAMPS | QUARTERLY | \%NOTQUART | \%ABOVEPEL | \#PLANTS | Item 13 COST |
|---------------------------------|-------|----------|--------|--------|---------|-----------|------------|------------|-----------|--------------|
| Sector 1. Electroplating | | | | | | | | | | |
| Hard Chrome | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 930 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 1,751 | = \$0 |
| Job Shop Chrome Plater | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 448 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 843 | = \$0 |
| Captive Shop Chrome Plater | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 508 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 955 | = \$0 |
| Job Shop Plater | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 448 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 843 | = \$0 |
| Captive Shop Plater | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 509 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 959 | = \$0 |
| Operator | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 930 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 1,751 | = \$0 |
| Sector 2. Welding | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 4.85% |) * 3,560 | = \$282,016 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 4.84% |) * 3,989 | = \$157,677 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.37% |) * 2,611 | = \$15,782 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.38% |) * 2,925 | = \$9,079 |
| TIG | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 791 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 886 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 316 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 354 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 79 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 89 | = \$0 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--------------------------------|-------|----------|--------|--------|--------|-----------|-----------|-----------|----------|--------------|
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |)* 79 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |)* 89 | = \$0 |
| Resistance Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |)* 475 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |)* 532 | = \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 18 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 10 | = \$0 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 24 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 14 | = \$0 |
| TIG | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 6 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 3 | = \$0 |
| FCAW | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 117 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 66 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 4 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 1 | = \$0 |
| Oxy-fuel Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 4 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| Air Carbon Arc Cutting | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| | Small | (\$68 | * 1 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 1 | = \$0 |
| Electric Torch Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 16 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 9 | = \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 202 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 1,620 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 3 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 21 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 41 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 324 | = \$0 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|-------------------------------------|-------|----------|--------|--------|--------|-----------|-----------|-----------|-----------|--------------|
| Brazing | State | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |) * 20 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 162 | = \$0 |
| Metallizing | State | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 0.00% |) * 4 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 32 | = \$0 |
| GOVERNMENT | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 19 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 594 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 8 | = \$0 |
| GMAW | Large | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 4 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 119 | = \$0 |
| Brazing | State | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 2 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 59 | = \$0 |
| Metallizing | State | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 1 | = \$0 |
| | Local | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 12 | = \$0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| SMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 4,773 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 4,859 | = \$0 |
| GMAW | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 3,500 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 3,563 | = \$0 |
| TIG | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 1,060 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 1,080 | = \$0 |
| SAW | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 424 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 432 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 106 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 108 | = \$0 |
| Plasma Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 106 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 108 | = \$0 |
| Resistance Welding | Large | (\$68 | * 1 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 636 | = \$0 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 648 | = \$0 |
| MARITIME | | | | | | | | | | |
| SMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |) * 37 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |) * 21 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |) * 54 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |) * 30 | = \$0 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|--------------------------------|-------|----------|--------|--------|--------|-----------|-----------|-----------|----------|--------------|
| TIG | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 13 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 7 | = \$0 |
| FCAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 251 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 142 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 8 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 5 | = \$0 |
| Plasma Welding | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 3 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| Oxy-fuel Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 8 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 5 | = \$0 |
| Air Carbon Arc Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 3 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 2 | = \$0 |
| Electric Torch Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 1 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| Thermal Spray Tungsten Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 1 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 0 | = \$0 |
| SAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 33 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 1 | * 4 | * 100% | * 0.00% |)* 18 | = \$0 |
| CONSTRUCTION | | | | | | | | | | |
| SMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 304 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 2,293 | = \$0 |
| Plasma Cutting | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 4 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 30 | = \$0 |
| GMAW | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 60 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 458 | = \$0 |
| Brazing | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 30 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 230 | = \$0 |
| Metallizing | Large | (\$68 | * 0 | * 3 | * 1 | * 4 | * 100% | * 0.00% |)* 6 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |)* 46 | = \$0 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| AEROSPACE | Large | (\$68 | * 1 | * 3 | * 3 | * 4 | * 100% | * 28.00% |)* 50 | = \$34,080 |
| | Small | (\$68 | * 1 | * 1 | * 3 | * 4 | * 100% | * 9.00% |)* 63 | = \$4,598 |
| AUTOBODY | Large | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 5.00% |)* 331 | = \$0 |
| | Small | (\$68 | * 2 | * 1 | * 1 | * 4 | * 100% | * 5.00% |)* 1,458 | = \$39,695 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|---|-------|----------|--------|--------|--------|-----------|-----------|-----------|-----------|--------------|
| COIL COATING | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 8.00% |) * 101 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 8.00% |) * 18 | = \$0 |
| MARITIME | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 36.00% |) * 294 | = \$86,414 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 36.00% |) * 508 | = \$49,803 |
| CONSTRUCTION | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 22.00% |) * 765 | = \$137,480 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 22.00% |) * 4,067 | = \$243,628 |
| GOVERNMENT | Large | (\$68 | * 1 | * 3 | * 1 | * 4 | * 100% | * 12.00% |) * 16 | = \$1,592 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 12.00% |) * 899 | = \$29,372 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 2 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (\$68 | * 1 | * 2 | * 3 | * 4 | * 100% | * 77.00% |) * 2 | = \$2,487 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 1 | = \$0 |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 3 | = \$0 |
| | Small | (\$68 | * 0 | * 3 | * 0 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 5 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 87 | = \$0 |
| | Small | (\$68 | * 0 | * 2 | * 3 | * 4 | * 100% | * 0.00% |) * 137 | = \$0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (\$60 | * 0 | * 1 | * 9 | * 4 | * 100% | * 0.00% |) * 3 | = \$0 |
| | Small | (\$60 | * 0 | * 1 | * 5 | * 4 | * 100% | * 0.00% |) * 10 | = \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (\$68 | * 3 | * 3 | * 3 | * 4 | * 100% | * 36.00% |) * 86 | = \$227,671 |
| | Small | (\$68 | * 5 | * 1 | * 3 | * 4 | * 100% | * 36.00% |) * 42 | = \$61,867 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 4 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 3 | = \$0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 1 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 0% | * 0.00% |) * 0 | = \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 37 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 12 | = \$0 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST |
|---------------------------------------|-------|----------|--------|--------|--------|-----------|-----------|-----------|-----------|--------------|
| CARBON STEEL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 112 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 35 | = \$0 |
| 14b. FORGING INDUSTRY | | | | | | | | | | |
| Reshaping | Large | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 63.00% |) * 37 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 63.00% |) * 34 | = \$0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 5 | * 4 | * 100% | * 0.00% |) * 178 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 5 | * 4 | * 100% | * 0.00% |) * 130 | = \$0 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 7 | * 1 | * 21 | * 4 | * 100% | * 62.00% |) * 3 | = \$73,595 |
| | Small | (\$68 | * 5 | * 1 | * 7 | * 4 | * 100% | * 62.00% |) * 1 | = \$5,841 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 5 | = \$0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 207 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 1,561 | = \$0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 347 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 2 | * 4 | * 100% | * 0.00% |) * 703 | = \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| General Industry | Large | (\$68 | * 0 | * 3 | * 12 | * 4 | * 100% | * 0.00% |) * 5 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 4 | * 4 | * 100% | * 0.00% |) * 17 | = \$0 |
| Fiber, Flat and Container Glass | Large | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 20.00% |) * 78 | = \$4,233 |
| | Small | (\$68 | * 1 | * 1 | * 1 | * 4 | * 100% | * 0.00% |) * 5 | = \$0 |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 3 | * 2 | * 4 | * 100% | * 0.00% |) * 92 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 2 | * 4 | * 100% | * 0.00% |) * 367 | = \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| Chromium Users | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 164 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |
| Chromium Catalyst Service Companies | Large | (\$68 | * 0 | * 3 | * 3 | * 4 | * 100% | * 0.00% |) * 21 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 3 | * 4 | * 100% | * 0.00% |) * 4 | = \$0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | (\$68 | * 0 | * 1 | * 15 | * 4 | * 100% | * 0.00% |) * 6 | = \$0 |
| | Small | (\$68 | * 0 | * 1 | * 0 | * 4 | * 100% | * 0.00% |) * 0 | = \$0 |

Table 8

| | | SAMPCOST | JOBPEL | SHIFTS | #SAMPS | QUARTERLY | %NOTQUART | %ABOVEPEL | #PLANTS | Item 13 COST | | | | | | | | | | |
|---|-------|----------|--------|--------|--------|-----------|-----------|-----------|---------|--------------|---|---|------|---|--------|---|---------------|-------|--------------------|-----|
| SECTOR 26. Woodworking | | | | | | | | | | | | | | | | | | | | |
| General Industry | Large | (| \$68 | * | 0 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0.00% |) | * | 175 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0.00% |) | * | 93 | = | \$0 |
| Maritime | Large | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 38 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 34 | = | \$0 |
| Construction | Large | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 22% | * | 0.00% |) | * | 1,290 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 22% | * | 0.00% |) | * | 5,162 | = | \$0 |
| Government | State | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 22% | * | 0.00% |) | * | 16 | = | \$0 |
| | Local | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 22% | * | 0.00% |) | * | 59 | = | \$0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (| \$68 | * | 0 | * | 3 | * | 15 | * | 4 | * | 100% | * | 0.00% |) | * | 48 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0.00% |) | * | 58 | = | \$0 |
| GOVERNMENT | Large | (| \$68 | * | 0 | * | 3 | * | 15 | * | 4 | * | 100% | * | 0.00% |) | * | 0 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0.00% |) | * | 29 | = | \$0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| \$68 | * | 0 | * | 3 | * | 3 | * | 4 | * | 100% | * | 0.00% |) | * | 18 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 3 | * | 3 | * | 4 | * | 100% | * | 0.00% |) | * | 0 | = | \$0 |
| SECTOR 31. Construction | | | | | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 55 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 196 | = | \$0 |
| | State | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 16 | = | \$0 |
| | Local | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 74 | = | \$0 |
| Hazardous Waste-site Work | Large | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 44 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 143 | = | \$0 |
| | State | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0.00% |) | * | 1 | = | \$0 |
| Refractory Brick Restoration | Large | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 60.00% |) | * | 48 | = | \$0 |
| | Small | (| \$68 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 60.00% |) | * | 148 | = | \$0 |
| Total | | | | | | | | | | | | | | | | | 77,770 | | \$1,466,910 | |

Table 9

Employer Time and Cost to Notify Employees of Quarterly Monitoring Results

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

ASSUMPTIONS:

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

| | | NOTETIME | JOBPEL | SHIFTS | #SAMPS | 4 | %NOTQUART | %ABOVEPEL | #PLANTS | Hours | SUPWAGE | Item 12 Cost | Responses |
|---------------------------------|-------|----------|--------|--------|--------|---|-----------|-----------|---------|-------|----------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | |
| Hard Chrome | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 930 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1,751 | 0 | \$ 34.98 | \$0 | 0 |
| Job Shop Chrome Plater | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 448 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 843 | 0 | \$ 34.98 | \$0 | 0 |
| Captive Shop Chrome Plater | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 508 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 955 | 0 | \$ 34.98 | \$0 | 0 |
| Job Shop Plater | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 448 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 843 | 0 | \$ 34.98 | \$0 | 0 |
| Captive Shop Plater | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 509 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 959 | 0 | \$ 34.98 | \$0 | 0 |
| Operator | Large | 0.25 | 0 | 2 | 3 | 4 | 100% | 0.00% | 930 | 0 | \$ 34.98 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 1,751 | 0 | \$ 34.98 | \$0 | 0 |
| Sector 2. Welding | | | | | | | | | | | | | |
| SMAW | Large | 0.25 | 1 | 3 | 2 | 4 | 100% | 4.85% | 3,560 | 1,036 | \$ 34.43 | \$35,669 | 4143 |
| | Small | 0.25 | 1 | 1 | 3 | 4 | 100% | 4.84% | 3,989 | 579 | \$ 34.43 | \$19,943 | 2317 |
| GMAW | Large | 0.25 | 1 | 3 | 2 | 4 | 100% | 0.37% | 2,611 | 58 | \$ 34.43 | \$1,996 | 232 |
| | Small | 0.25 | 1 | 1 | 3 | 4 | 100% | 0.38% | 2,925 | 33 | \$ 34.43 | \$1,148 | 133 |
| TIG | Large | 0.25 | 1 | 3 | 2 | 4 | 100% | 0.00% | 791 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | 1 | 1 | 3 | 4 | 100% | 0.00% | 886 | 0 | \$ 34.43 | \$0 | 0 |
| SAW | Large | 0.25 | 0 | 3 | 2 | 4 | 100% | 0.00% | 316 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | 0 | 1 | 3 | 4 | 100% | 0.00% | 354 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Cutting | Large | 0.25 | 1 | 3 | 2 | 4 | 100% | 0.00% | 79 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | 1 | 1 | 3 | 4 | 100% | 0.00% | 89 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Welding | Large | 0.25 | 1 | 3 | 2 | 4 | 100% | 0.00% | 79 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | 1 | 1 | 3 | 4 | 100% | 0.00% | 89 | 0 | \$ 34.43 | \$0 | 0 |

Table 9

| | | NOTE | TIME | JOBPEL | SHIFTS | #SAMP | 4 | %NOTQUART | %ABOVEPEL | #PLANTS | Hours | SUPWAGE | Item 12 Cost | Responses |
|--------------------------------|-------|--------|------|--------|--------|-------|--------|-----------|-----------|---------|----------|---------|--------------|-----------|
| Resistance Welding | Large | 0.25 * | 1 * | 3 * | 2 * | 4 * | 100% * | 0.00% * | 475 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 532 | 0 | \$ 34.43 | \$0 | 0 | |
| MARITIME | | | | | | | | | | | | | | |
| SMAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 18 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 10 | 0 | \$ 34.43 | \$0 | 0 | |
| GMAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 24 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 14 | 0 | \$ 34.43 | \$0 | 0 | |
| TIG | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 6 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 3 | 0 | \$ 34.43 | \$0 | 0 | |
| FCAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 117 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 66 | 0 | \$ 34.43 | \$0 | 0 | |
| Plasma Cutting | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 34.43 | \$0 | 0 | |
| Plasma Welding | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1 | 0 | \$ 34.43 | \$0 | 0 | |
| Oxy-fuel Cutting | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 34.43 | \$0 | 0 | |
| Air Carbon Arc Cutting | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1 | 0 | \$ 34.43 | \$0 | 0 | |
| Electric Torch Cutting | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 34.43 | \$0 | 0 | |
| Thermal Spray Tungsten Cutting | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 34.43 | \$0 | 0 | |
| SAW | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 16 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 9 | 0 | \$ 34.43 | \$0 | 0 | |
| CONSTRUCTION | | | | | | | | | | | | | | |
| SMAW | Large | 0.25 * | 1 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 202 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1,620 | 0 | \$ 34.43 | \$0 | 0 | |
| Plasma Cutting | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 3 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 21 | 0 | \$ 34.43 | \$0 | 0 | |
| GMAW | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 41 | 0 | \$ 34.43 | \$0 | 0 | |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 324 | 0 | \$ 34.43 | \$0 | 0 | |
| Brazing | State | 0.25 * | 1 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 20 | 0 | \$ 34.43 | \$0 | 0 | |
| | Local | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 162 | 0 | \$ 34.43 | \$0 | 0 | |
| Metallizing | State | 0.25 * | 1 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 34.43 | \$0 | 0 | |
| | Local | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 32 | 0 | \$ 34.43 | \$0 | 0 | |

Table 9

| | | NOTETIME | JOBPEL | SHIFTS | #SAMPS | 4 | %NOTQUART | %ABOVEPEL | #PLANTS | Hours | SUPWAGE | Item 12 Cost | Responses |
|------------------------|-------|----------|--------|--------|--------|-----|-----------|-----------|---------|-------|----------|--------------|-----------|
| GOVERNMENT | | | | | | | | | | | | | |
| SMAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 19 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 594 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Cutting | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 8 | 0 | \$ 34.43 | \$0 | 0 |
| GMAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 119 | 0 | \$ 34.43 | \$0 | 0 |
| Brazing | State | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 34.43 | \$0 | 0 |
| | Local | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 59 | 0 | \$ 34.43 | \$0 | 0 |
| Metallizing | State | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1 | 0 | \$ 34.43 | \$0 | 0 |
| | Local | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 12 | 0 | \$ 34.43 | \$0 | 0 |
| 2A. Mild Steel Welding | | | | | | | | | | | | | |
| SMAW | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 4,773 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 4,859 | 0 | \$ 34.43 | \$0 | 0 |
| GMAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 3,500 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 3,563 | 0 | \$ 34.43 | \$0 | 0 |
| TIG | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1,060 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 1,080 | 0 | \$ 34.43 | \$0 | 0 |
| SAW | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 424 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 432 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Cutting | Large | 0.25 * | 0 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 106 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 108 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Welding | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 106 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 108 | 0 | \$ 34.43 | \$0 | 0 |
| Resistance Welding | Large | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 636 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 1 * | 4 * | 100% * | 0.00% * | 648 | 0 | \$ 34.43 | \$0 | 0 |
| MARITIME | | | | | | | | | | | | | |
| SMAW | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 37 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 2 * | 1 * | 4 * | 100% * | 0.00% * | 21 | 0 | \$ 34.43 | \$0 | 0 |
| GMAW | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 54 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 2 * | 1 * | 4 * | 100% * | 0.00% * | 30 | 0 | \$ 34.43 | \$0 | 0 |
| TIG | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 13 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 2 * | 1 * | 4 * | 100% * | 0.00% * | 7 | 0 | \$ 34.43 | \$0 | 0 |
| FCAW | Large | 0.25 * | 0 * | 3 * | 1 * | 4 * | 100% * | 0.00% * | 251 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 2 * | 1 * | 4 * | 100% * | 0.00% * | 142 | 0 | \$ 34.43 | \$0 | 0 |

Table 9

| | | NOTE TIME | JOB PEL | SHIFTS | #SAMP | 4 | %NOT QUART | %ABOVE PEL | #PLANTS | Hours | SUP WAGE | Item 12 Cost | Responses |
|--------------------------------|-------|-----------|---------|--------|-------|-----|------------|------------|---------|-------|----------|--------------|-----------|
| Plasma Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 8 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 5 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Welding | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 3 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 2 | 0 | \$ 34.43 | \$0 | 0 |
| Oxy-fuel Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 8 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 5 | 0 | \$ 34.43 | \$0 | 0 |
| Air Carbon Arc Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 3 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 2 | 0 | \$ 34.43 | \$0 | 0 |
| Electric Torch Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 1 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 0 | 0 | \$ 34.43 | \$0 | 0 |
| Thermal Spray Tungsten Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 1 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 0 | 0 | \$ 34.43 | \$0 | 0 |
| SAW | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 33 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 18 | 0 | \$ 34.43 | \$0 | 0 |
| CONSTRUCTION | | | | | | | | | | | | | |
| SMAW | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 304 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 2,293 | 0 | \$ 34.43 | \$0 | 0 |
| Plasma Cutting | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 4 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 30 | 0 | \$ 34.43 | \$0 | 0 |
| GMAW | Large | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 60 | 0 | \$ 34.43 | \$0 | 0 |
| | Small | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 458 | 0 | \$ 34.43 | \$0 | 0 |
| Brazing | State | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 30 | 0 | \$ 34.43 | \$0 | 0 |
| | Local | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 230 | 0 | \$ 34.43 | \$0 | 0 |
| Metallizing | State | 0.25 | * 0 | * 3 | * 1 | * 4 | 100% | * 0.00% | 6 | 0 | \$ 34.43 | \$0 | 0 |
| | Local | 0.25 | * 0 | * 2 | * 1 | * 4 | 100% | * 0.00% | 46 | 0 | \$ 34.43 | \$0 | 0 |
| Sector 3. Painting | | | | | | | | | | | | | |
| AEROSPACE | Large | 0.25 | * 1 | * 3 | * 3 | * 4 | 100% | * 28.00% | 50 | 125 | \$ 43.34 | \$5,425 | 501 |
| | Small | 0.25 | * 1 | * 1 | * 3 | * 4 | 100% | * 9.00% | 63 | 17 | \$ 43.34 | \$732 | 68 |
| AUTOBODY | Large | 0.25 | * 1 | * 3 | * 3 | * 4 | 100% | * 5.00% | 331 | 149 | \$ 43.34 | \$6,459 | 596 |
| | Small | 0.25 | * 1 | * 1 | * 3 | * 4 | 100% | * 5.00% | 1,458 | 219 | \$ 43.34 | \$9,479 | 875 |
| COIL COATING | Large | 0.25 | * 1 | * 3 | * 3 | * 4 | 100% | * 8.00% | 101 | 73 | \$ 43.34 | \$3,158 | 291 |
| | Small | 0.25 | * 1 | * 1 | * 3 | * 4 | 100% | * 8.00% | 18 | 4 | \$ 43.34 | \$191 | 18 |
| MARITIME | Large | 0.25 | * 1 | * 3 | * 3 | * 4 | 100% | * 36.00% | 294 | 952 | \$ 43.34 | \$41,269 | 3809 |
| | Small | 0.25 | * 1 | * 1 | * 3 | * 4 | 100% | * 36.00% | 508 | 549 | \$ 43.34 | \$23,784 | 2195 |
| CONSTRUCTION | Large | 0.25 | * 1 | * 3 | * 3 | * 4 | 100% | * 22.00% | 765 | 1,515 | \$ 43.34 | \$65,656 | 6060 |
| | Small | 0.25 | * 1 | * 1 | * 3 | * 4 | 100% | * 22.00% | 4,067 | 2,685 | \$ 43.34 | \$116,349 | 10738 |

Table 9

| | | NOTE TIME | JOB PEL | SHIFTS | #SAMP | 4 | %NOTQUART | %ABOVEPEL | #PLANTS | Hours | SUPWAGE | Item 12 Cost | Responses |
|---|-------|-----------|---------|--------|-------|-----|-----------|-----------|---------|-------|----------|--------------|-----------|
| GOVERNMENT | Large | 0.25 * | 1 * | 3 * | 3 * | 4 * | 100% * | 12.00% * | 16 | 18 | \$ 43.34 | \$760 | 70 |
| | Small | 0.25 * | 1 * | 1 * | 3 * | 4 * | 100% * | 12.00% * | 899 | 324 | \$ 43.34 | \$14,027 | 1295 |
| Sector 4. Producers of Chromates | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 2 | 0 | \$ 50.86 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 50.86 | \$0 | 0 |
| Sector 5. Chromate Pigment Procedures | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 1 * | 2 * | 3 * | 4 * | 100% * | 77.00% * | 2 | 9 | \$ 49.57 | \$453 | 37 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 1 | 0 | \$ 49.57 | \$0 | 0 |
| Sector 6. CCA Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 3 | 0 | \$ 41.98 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 3 * | 0 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 41.98 | \$0 | 0 |
| Sector 7. Chromium Catalyst Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 5 | 0 | \$ 50.86 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 50.86 | \$0 | 0 |
| Sector 8. Paint and Coating Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 2 * | 3 * | 4 * | 100% * | 0.00% * | 87 | 0 | \$ 37.87 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 2 * | 3 * | 4 * | 100% * | 0.00% * | 137 | 0 | \$ 37.87 | \$0 | 0 |
| Sector 9. Printing Ink Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 1 * | 9 * | 4 * | 100% * | 0.00% * | 3 | 0 | \$ 37.94 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 5 * | 4 * | 100% * | 0.00% * | 10 | 0 | \$ 37.94 | \$0 | 0 |
| Sector 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 3 * | 3 * | 3 * | 4 * | 100% * | 36.00% * | 86 | 836 | \$ 42.04 | \$35,151 | 3345 |
| | Small | 0.25 * | 5 * | 1 * | 3 * | 4 * | 100% * | 36.00% * | 42 | 227 | \$ 42.04 | \$9,552 | 909 |
| Sector 11. Plating Mixture Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 37.72 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 3 | 0 | \$ 37.72 | \$0 | 0 |
| Sector 13. Chromium Metal Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 1 | 0 | \$ 51.02 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 1 * | 4 * | 0% * | 0.00% * | 0 | 0 | \$ 51.02 | \$0 | 0 |
| Sector 14. Iron and Steel Mills | | | | | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 37 | 0 | \$ 51.02 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 12 | 0 | \$ 51.02 | \$0 | 0 |
| CARBON STEEL | Large | 0.25 * | 3 * | 3 * | 3 * | 4 * | 100% * | 38.00% * | 112 | 1,147 | \$ 51.02 | \$58,523 | 4588 |
| | Small | 0.25 * | 1 * | 1 * | 3 * | 4 * | 100% * | 38.00% * | 35 | 40 | \$ 51.02 | \$2,045 | 160 |
| 14B. Forging Industry | | | | | | | | | | | | | |
| FORGING INDUSTRY | Large | 0.25 * | 3 * | 3 * | 3 * | 4 * | 100% * | 38.00% * | 37 | 375 | \$ 51.02 | \$19,140 | 1500 |
| | Small | 0.25 * | 1 * | 1 * | 3 * | 4 * | 100% * | 38.00% * | 34 | 39 | \$ 51.02 | \$2,004 | 157 |

Table 9

| | | NOTE TIME | JOB PEL | SHIFTS | #SAMP S | 4 | %NOT QUART | %ABOVE PEL | #PLANTS | Hours | SUP WAGE | Item 12 Cost | Responses |
|--|-------|-----------|---------|--------|---------|-----|------------|------------|---------|-------|----------|--------------|-----------|
| Sector 15. Iron and Steel Foundries | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 5 * | 4 * | 100% * | 0.00% * | 178 | 0 | \$ 37.21 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 5 * | 4 * | 100% * | 0.00% * | 130 | 0 | \$ 37.21 | \$0 | 0 |
| Sector 17. Chromium Dye Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 7 * | 1 * | 21 * | 4 * | 100% * | 62.00% * | 3 | 270 | \$ 49.57 | \$13,398 | 1081 |
| | Small | 0.25 * | 5 * | 1 * | 7 * | 4 * | 100% * | 62.00% * | 1 | 21 | \$ 49.57 | \$1,063 | 86 |
| Sector 18. Chromium Sulfate Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 54.55 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 5 | 0 | \$ 54.55 | \$0 | 0 |
| Sector 19. Chemical Distributers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 207 | 0 | \$ 39.35 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 1,561 | 0 | \$ 39.35 | \$0 | 0 |
| Sector 20. Textile Dyeing | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 0.00% * | 347 | 0 | \$ 26.25 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 703 | 0 | \$ 26.25 | \$0 | 0 |
| Sector 21. Colored Glass Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 12 * | 4 * | 25% * | 0.00% * | 5 | 0 | \$ 37.96 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 4 * | 4 * | 0% * | 0.00% * | 17 | 0 | \$ 37.96 | \$0 | 0 |
| Fiber, Flat, and Container Glass | Large | 0.25 * | 1 * | 3 * | 1 * | 4 * | 25% * | 0.00% * | 78 | 0 | \$ 37.96 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 1 * | 4 * | 0% * | 0.00% * | 5 | 0 | \$ 37.96 | \$0 | 0 |
| Sector 22. Printing | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 3 * | 2 * | 4 * | 100% * | 0.00% * | 92 | 0 | \$ 27.39 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 367 | 0 | \$ 27.39 | \$0 | 0 |
| Sector 24. Chromium Catalyst Users | | | | | | | | | | | | | |
| Catalyst Users | Large | 0.25 * | 0 * | 3 * | 3 * | 4 * | 100% * | 13.00% * | 164 | 0 | \$ 42.72 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 42.72 | \$0 | 0 |
| Catalyst Companies | Large | 0.25 * | 2 * | 3 * | 3 * | 4 * | 100% * | 13.00% * | 21 | 50 | \$ 42.72 | \$2,118 | 198 |
| | Small | 0.25 * | 0 * | 1 * | 3 * | 4 * | 100% * | 0.00% * | 4 | 0 | \$ 42.72 | \$0 | 0 |
| Sector 25. Refractory Brick Producers | | | | | | | | | | | | | |
| ALL | Large | 0.25 * | 0 * | 1 * | 15 * | 4 * | 100% * | 0.00% * | 6 | 0 | \$ 33.72 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 0 * | 4 * | 100% * | 0.00% * | 0 | 0 | \$ 33.72 | \$0 | 0 |
| Sector 26. Woodworking | | | | | | | | | | | | | |
| General Industry | Large | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 175 | 0 | \$ 30.34 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 93 | 0 | \$ 30.34 | \$0 | 0 |
| Maritime | Large | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 38 | 0 | \$ 30.34 | \$0 | 0 |
| | Small | 0.25 * | 0 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 34 | 0 | \$ 30.34 | \$0 | 0 |
| Construction | Large | 0.25 * | 1 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 1,290 | 0 | \$ 30.34 | \$0 | 0 |
| | Small | 0.25 * | 1 * | 1 * | 2 * | 4 * | 100% * | 0.00% * | 5,162 | 0 | \$ 30.34 | \$0 | 0 |

Table 9

| | | NOTE | TIME | JOB | PEL | SHIFTS | #SAMP | 4 | %NOT | QUART | %ABOVE | PEL | #PLANTS | Hours | SUP | WAGE | Item 12 Cost | Responses |
|--|-------|------|------|-----|-----|--------|-------|----|------|-------|--------|------|---------------|---------------|------------------|---------------|--------------|-----------|
| Government | Large | 0.25 | * | 1 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0 | \$ | 30.34 | \$0 | 0 |
| | Small | 0.25 | * | 1 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0 | \$ | 30.34 | \$0 | 0 |
| Sector 27. Solid Waste Incineration | | | | | | | | | | | | | | | | | | |
| General Industry | Large | 0.25 | * | 0 | * | 3 | * | 15 | * | 4 | * | 100% | * | 0 | \$ | 35.80 | \$0 | 0 |
| | Small | 0.25 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 35.80 | \$0 | 0 |
| Government | State | 0.25 | * | 0 | * | 3 | * | 15 | * | 4 | * | 100% | * | 0 | \$ | 35.80 | \$0 | 0 |
| | Local | 0.25 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 35.80 | \$0 | 0 |
| Sector 30. Superalloy Producers and Users | | | | | | | | | | | | | | | | | | |
| ALL | Large | 0.25 | * | 0 | * | 3 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 36.71 | \$0 | 0 |
| | Small | 0.25 | * | 0 | * | 3 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 36.71 | \$0 | 0 |
| Sector 31. Construction | | | | | | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | 0.25 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| | Small | 0.25 | * | 0 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| | State | 0.25 | * | 0 | * | 1 | * | 2 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| | Local | 0.25 | * | 0 | * | 1 | * | 3 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| Hazardous Waste-site Work | Large | 0.25 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| | Small | 0.25 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| | State | 0.25 | * | 0 | * | 1 | * | 1 | * | 4 | * | 100% | * | 0 | \$ | 42.25 | \$0 | 0 |
| Refractory Brick Restoration | Large | 0.25 | * | 1 | * | 1 | * | 1 | * | 4 | * | 100% | * | 29 | \$ | 42.25 | \$1,216 | 115 |
| | Small | 0.25 | * | 1 | * | 1 | * | 1 | * | 4 | * | 100% | * | 89 | \$ | 42.25 | \$3,739 | 354 |
| Total | | | | | | | | | | | | | 77,770 | 11,468 | \$494,447 | 45,870 | | |

Table 9a (Remand)

Employer Time and Cost to Notify Employees of Initial Monitoring Results

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

Cost = BURDEN HOURS * NONSUPWAGE

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

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

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

* SHIFTS = Number of work shifts

* #SAMPS = Number of samples per exposure measurement

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

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

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

| | | NOTETIME | NONSUPWAGE | JOBCAT | SHIFTS | #SAMPS | #INIT | %INITADD | #PLANTS | #PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|---------------------------------|-------|-------------|------------|--------|--------|--------|-------|----------|---------|--------------|---------------|-------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | |
| Hard Chrome | Large | (0.25 * \$ | 25.49 | 7 | 2 | 3 | 2 | 25% | 930 | 47 | = \$6,226 | 244 | 977 |
| | Small | (0.25 * \$ | 25.49 | 7 | 1 | 3 | 2 | 25% | 1,751 | 88 | = \$5,858 | 230 | 919 |
| Job Shop Chrome Plater | Large | (0.25 * \$ | 25.49 | 1 | 2 | 3 | 2 | 25% | 448 | 22 | = \$429 | 17 | 67 |
| | Small | (0.25 * \$ | 25.49 | 1 | 1 | 3 | 2 | 25% | 843 | 42 | = \$403 | 16 | 63 |
| Captive Shop Chrome Plater | Large | (0.25 * \$ | 25.49 | 1 | 2 | 3 | 2 | 25% | 508 | 25 | = \$485 | 19 | 76 |
| | Small | (0.25 * \$ | 25.49 | 1 | 1 | 3 | 2 | 25% | 955 | 48 | = \$457 | 18 | 72 |
| Job Shop Plater | Large | (0.25 * \$ | 25.49 | 1 | 2 | 3 | 2 | 25% | 448 | 22 | = \$429 | 17 | 67 |
| | Small | (0.25 * \$ | 25.49 | 1 | 1 | 3 | 2 | 25% | 843 | 42 | = \$403 | 16 | 63 |
| Captive Shop Plater | Large | (0.25 * \$ | 25.49 | 1 | 2 | 3 | 2 | 25% | 509 | 25 | = \$487 | 19 | 76 |
| | Small | (0.25 * \$ | 25.49 | 1 | 1 | 3 | 2 | 25% | 959 | 48 | = \$458 | 18 | 72 |
| Operator | Large | (0.25 * \$ | 25.49 | 1 | 2 | 3 | 2 | 25% | 930 | 47 | = \$889 | 35 | 140 |
| | Small | (0.25 * \$ | 25.49 | 1 | 1 | 3 | 2 | 25% | 1,751 | 88 | = \$837 | 33 | 131 |
| Sector 2. Welding | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 3,560 | 178 | = \$3,350 | 133 | 534 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 3,989 | 199 | = \$1,877 | 75 | 299 |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 2,611 | 131 | = \$2,458 | 98 | 392 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 2,925 | 146 | = \$1,377 | 55 | 219 |
| TIG | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 791 | 40 | = \$744 | 30 | 119 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 886 | 44 | = \$417 | 17 | 66 |
| SAW | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 316 | 16 | = \$298 | 12 | 47 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 354 | 18 | = \$167 | 7 | 27 |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 79 | 4 | = \$74 | 3 | 12 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 89 | 4 | = \$42 | 2 | 7 |
| Plasma Welding | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 79 | 4 | = \$74 | 3 | 12 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 89 | 4 | = \$42 | 2 | 7 |
| Resistance Welding | Large | (0.25 * \$ | 25.10 | 1 | 3 | 2 | 2 | 25% | 475 | 24 | = \$447 | 18 | 71 |
| | Small | (0.25 * \$ | 25.10 | 1 | 1 | 3 | 2 | 25% | 532 | 27 | = \$250 | 10 | 40 |

Table 9a (Remand)

| | | NOTETIME | NONSUPEWAGE | JOB CAT | SHIFTS | # SAMPs | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|--------------------------------|-------|-------------|-------------|---------|--------|---------|--------|-----------|----------|---------------|---------------|-------|-----------|
| MARITIME | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 18 | 1 = | \$25 | 1 | 4 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 10 | 0 = | \$9 | 0 | 1 | |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 24 | 1 = | \$34 | 1 | 5 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 14 | 1 = | \$13 | 1 | 2 | |
| TIG | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 6 | 0 = | \$8 | 0 | 1 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 3 | 0 = | \$3 | 0 | 0 | |
| FCAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 117 | 6 = | \$165 | 7 | 26 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 66 | 3 = | \$62 | 2 | 10 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 4 | 0 = | \$5 | 0 | 1 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 2 | 0 = | \$2 | 0 | 0 | |
| Plasma Welding | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 2 | 0 = | \$3 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 1 | 0 = | \$1 | 0 | 0 | |
| Oxy-fuel Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 4 | 0 = | \$5 | 0 | 1 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 2 | 0 = | \$2 | 0 | 0 | |
| Air Carbon Arc Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 2 | 0 = | \$3 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 1 | 0 = | \$1 | 0 | 0 | |
| Electric Torch Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| Thermal Spray Tungsten Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| SAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 16 | 1 = | \$22 | 1 | 4 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 9 | 0 = | \$8 | 0 | 1 | |
| CONSTRUCTION | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 202 | 10 = | \$95 | 4 | 15 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 1,620 | 81 = | \$254 | 10 | 40 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 3 | 0 = | \$1 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 21 | 1 = | \$3 | 0 | 1 | |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 41 | 2 = | \$19 | 1 | 3 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 324 | 16 = | \$51 | 2 | 8 | |
| Brazing | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 20 | 1 = | \$10 | 0 | 2 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 162 | 8 = | \$25 | 1 | 4 | |
| Metallizing | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 4 | 0 = | \$2 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 32 | 2 = | \$5 | 0 | 1 | |
| GOVERNMENT | | | | | | | | | | | | | |
| SMAW | State | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 19 | 1 = | \$3 | 0 | 0 | |
| | Local | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 594 | 30 = | \$93 | 4 | 15 | |

Table 9a (Remand)

| | | NOTIME | NONSUPEWAGE | JOB CAT | SHIFTS | # SAMP | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|-------------------------------------|-------|-------------|-------------|---------|--------|---------|--------|-----------|----------|---------------|---------------|-------|-----------|
| Plasma Cutting | State | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 0 | 0 = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 8 | 0 = | \$1 | 0 | 0 |
| GMAW | State | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 4 | 0 = | \$1 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 119 | 6 = | \$19 | 1 | 3 |
| Brazing | State | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 2 | 0 = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 59 | 3 = | \$9 | 0 | 1 |
| Metallizing | State | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 1 | 0 = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 | 1 * 1 | 1 * 1 | 1 * 2 | 25% | * | 12 | 1 = | \$2 | 0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 4,773 | 239 = | \$4,492 | 179 | 716 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 4,859 | 243 = | \$2,287 | 91 | 364 | |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 3,500 | 175 = | \$3,295 | 131 | 525 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 3,563 | 178 = | \$1,677 | 67 | 267 | |
| TIG | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 1,060 | 53 = | \$998 | 40 | 159 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 1,080 | 54 = | \$508 | 20 | 81 | |
| SAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 424 | 21 = | \$399 | 16 | 64 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 432 | 22 = | \$203 | 8 | 32 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 106 | 5 = | \$100 | 4 | 16 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 108 | 5 = | \$51 | 2 | 8 | |
| Plasma Welding | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 106 | 5 = | \$100 | 4 | 16 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 108 | 5 = | \$51 | 2 | 8 | |
| Resistance Welding | Large | (0.25 * \$ | 25.10 | 1 * 3 | 2 * 2 | 2 * 25% | * | 636 | 32 = | \$599 | 24 | 95 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | 3 * 2 | 2 * 25% | * | 648 | 32 = | \$305 | 12 | 49 | |
| MARITIME | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 37 | 2 = | \$52 | 2 | 8 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 21 | 1 = | \$20 | 1 | 3 | |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 54 | 3 = | \$76 | 3 | 12 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 30 | 2 = | \$28 | 1 | 5 | |
| TIG | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 13 | 1 = | \$18 | 1 | 3 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 7 | 0 = | \$6 | 0 | 1 | |
| FCAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 251 | 13 = | \$354 | 14 | 56 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 142 | 7 = | \$134 | 5 | 21 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 8 | 0 = | \$11 | 0 | 2 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 5 | 0 = | \$5 | 0 | 1 | |
| Plasma Welding | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 3 | 0 = | \$4 | 0 | 1 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 2 | 0 = | \$2 | 0 | 0 | |
| Oxy-fuel Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | 1 * 2 | 2 * 75% | * | 8 | 0 = | \$11 | 0 | 2 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | 1 * 2 | 2 * 75% | * | 5 | 0 = | \$5 | 0 | 1 | |

Table 9a (Remand)

| | | NOTIME | NONSUPEWAGE | JOB/CAT | SHIFTS | # SAMP | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|--|-------|-------------|-------------|---------|--------|--------|--------|-----------|----------|---------------|---------------|-------|-----------|
| Air Carbon Arc Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 3 | 0 = | \$4 | 0 | 1 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 2 | 0 = | \$2 | 0 | 0 | |
| Electric Torch Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 1 | 0 = | \$1 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| Thermal Spray Tungsten Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 1 | 0 = | \$1 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 0 | 0 = | \$0 | 0 | 0 | |
| SAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 75% | * 33 | 2 = | \$47 | 2 | 7 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 2 | * 1 | * 2 | * 75% | * 18 | 1 = | \$17 | 1 | 3 | |
| CONSTRUCTION | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 304 | 15 = | \$143 | 6 | 23 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 2,293 | 115 = | \$360 | 14 | 57 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 4 | 0 = | \$2 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 30 | 2 = | \$5 | 0 | 1 | |
| GMAW | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 60 | 3 = | \$28 | 1 | 5 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 458 | 23 = | \$72 | 3 | 11 | |
| Brazing | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 30 | 2 = | \$14 | 1 | 2 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 230 | 11 = | \$36 | 1 | 6 | |
| Metallizing | Large | (0.25 * \$ | 25.10 | 1 * 3 | * 1 | * 2 | * 25% | * 6 | 0 = | \$3 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 | 1 * 1 | * 1 | * 2 | * 25% | * 46 | 2 = | \$7 | 0 | 1 | |
| SECTOR 3. PAINTING | | | | | | | | | | | | | |
| General Industry (Aerospace) | Large | (0.25 * \$ | 31.68 | 2 * 3 | * 3 | * 2 | * 25% | * 50 | 2 = | \$177 | 6 | 22 | |
| | Small | (0.25 * \$ | 31.68 | 1 * 1 | * 3 | * 2 | * 25% | * 63 | 3 = | \$37 | 1 | 5 | |
| General Industry (Autobody) | Large | (0.25 * \$ | 31.68 | 2 * 2 | * 3 | * 2 | * 25% | * 331 | 17 = | \$787 | 25 | 99 | |
| | Small | (0.25 * \$ | 31.68 | 2 * 1 | * 3 | * 2 | * 25% | * 1,458 | 73 = | \$1,732 | 55 | 219 | |
| General Industry (Coil Coating) | Large | (0.25 * \$ | 31.68 | 2 * 2 | * 3 | * 2 | * 25% | * 101 | 5 = | \$240 | 8 | 30 | |
| | Small | (0.25 * \$ | 31.68 | 2 * 1 | * 3 | * 2 | * 25% | * 18 | 1 = | \$22 | 1 | 3 | |
| Maritime | Large | (0.25 * \$ | 31.68 | 3 * 3 | * 1 | * 2 | * 25% | * 294 | 15 = | \$524 | 17 | 66 | |
| | Small | (0.25 * \$ | 31.68 | 3 * 1 | * 1 | * 2 | * 25% | * 508 | 25 = | \$302 | 10 | 38 | |
| Construction | Large | (0.25 * \$ | 31.68 | 3 * 3 | * 1 | * 2 | * 25% | * 765 | 38 = | \$1,363 | 43 | 172 | |
| | Small | (0.25 * \$ | 31.68 | 3 * 1 | * 1 | * 2 | * 25% | * 4,067 | 203 = | \$2,416 | 76 | 305 | |
| Government | State | (0.25 * \$ | 31.68 | 2 * 3 | * 1 | * 2 | * 25% | * 16 | 1 = | \$19 | 1 | 2 | |
| | Local | (0.25 * \$ | 31.68 | 2 * 1 | * 1 | * 2 | * 25% | * 899 | 45 = | \$356 | 11 | 45 | |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 37.06 | 4 * 3 | * 3 | * 2 | * 100% | * 2 | 0 = | \$69 | 2 | 7 | |
| | Small | (0.25 * \$ | 37.06 | 0 * 1 | * 3 | * 2 | * 0% | * 0 | 0 = | \$0 | 0 | 0 | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 36.12 | 9 * 2 | * 3 | * 2 | * 25% | * 2 | 0 = | \$24 | 1 | 3 | |
| | Small | (0.25 * \$ | 36.12 | 1 * 1 | * 3 | * 2 | * 25% | * 1 | 0 = | \$1 | 0 | 0 | |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | |

Table 9a (Remand)

| | | NOTIME | NONSUPEWAGE | JOB CAT | SHIFTS | # SAMP | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|---|-------|-------------|-------------|---------|--------|-------------|--------|-----------|----------|---------------|---------------|-------|-----------|
| ALL | Large | (0.25 * \$ | 30.60 | 4 * 3 | 3 * 3 | 2 * 25% | 3 | 0 = | \$18 | 1 | 2 | | |
| | Small | (0.25 * \$ | 30.60 | 0 * 3 | 0 * 2 | 0% * 0 | 0 | 0 = | \$0 | 0 | 0 | | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 37.06 | 14 * 3 | 3 * 3 | 2 * 25% | 5 | 0 = | \$152 | 4 | 16 | | |
| | Small | (0.25 * \$ | 37.06 | 0 * 1 | 3 * 2 | 0% * 0 | 0 | 0 = | \$0 | 0 | 0 | | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 27.60 | 4 * 2 | 3 * 2 | 25% * 87 | 4 = | \$362 | 13 | 52 | | | |
| | Small | (0.25 * \$ | 27.60 | 4 * 2 | 3 * 2 | 25% * 137 | 7 = | \$569 | 21 | 82 | | | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 27.65 | 5 * 1 | 9 * 2 | 100% * 3 | 0 = | \$94 | 3 | 14 | | | |
| | Small | (0.25 * \$ | 27.65 | 3 * 1 | 5 * 2 | 100% * 10 | 1 = | \$104 | 4 | 15 | | | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 30.64 | 4 * 3 | 3 * 2 | 25% * 86 | 4 = | \$593 | 19 | 77 | | | |
| | Small | (0.25 * \$ | 30.64 | 1 * 1 | 3 * 2 | 25% * 42 | 2 = | \$24 | 1 | 3 | | | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 27.50 | 3 * 1 | 3 * 2 | 75% * 4 | 0 = | \$21 | 1 | 3 | | | |
| | Small | (0.25 * \$ | 27.50 | 3 * 1 | 3 * 2 | 75% * 3 | 0 = | \$14 | 0 | 2 | | | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 37.17 | 16 * 3 | 3 * 2 | 100% * 1 | 0 = | \$134 | 4 | 14 | | | |
| | Small | (0.25 * \$ | 37.17 | 0 * 1 | 1 * 2 | 0% * 0 | 0 = | \$0 | 0 | 0 | | | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | |
| Alloy Stainless Steel | Large | (0.25 * \$ | 37.17 | 8 * 3 | 3 * 2 | 75% * 37 | 2 = | \$1,870 | 50 | 201 | | | |
| | Small | (0.25 * \$ | 37.17 | 4 * 1 | 3 * 2 | 75% * 12 | 1 = | \$100 | 3 | 11 | | | |
| Carbon Steel | Large | (0.25 * \$ | 37.17 | 8 * 3 | 3 * 2 | 75% * 112 | 6 = | \$5,610 | 151 | 604 | | | |
| | Small | (0.25 * \$ | 37.17 | 4 * 1 | 3 * 2 | 75% * 35 | 2 = | \$294 | 8 | 32 | | | |
| 14.B Forging | | | | | | | | | | | | | |
| Forging Industry | Large | (0.25 * \$ | 37.17 | 5 * 1 | 3 * 2 | 75% * 37 | 2 = | \$382 | 10 | 41 | | | |
| | Small | (0.25 * \$ | 37.17 | 2 * 1 | 1 * 2 | 75% * 34 | 2 = | \$48 | 1 | 5 | | | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 27.12 | 9 * 3 | 5 * 2 | 25% * 178 | 9 = | \$4,079 | 150 | 602 | | | |
| | Small | (0.25 * \$ | 27.12 | 5 * 1 | 5 * 2 | 25% * 130 | 6 = | \$549 | 20 | 81 | | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 36.12 | 7 * 1 | 21 * 2 | 25% * 3 | 0 = | \$98 | 3 | 11 | | | |
| | Small | (0.25 * \$ | 36.12 | 5 * 1 | 7 * 2 | 25% * 1 | 0 = | \$8 | 0 | 1 | | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 39.76 | 0 * 1 | 3 * 2 | 0% * 0 | 0 = | \$0 | 0 | 0 | | | |
| | Small | (0.25 * \$ | 39.76 | 2 * 1 | 3 * 2 | 100% * 5 | 0 = | \$31 | 1 | 3 | | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 28.67 | 1 * 1 | 3 * 2 | 75% * 207 | 10 = | \$334 | 12 | 47 | | | |
| | Small | (0.25 * \$ | 28.67 | 1 * 1 | 3 * 2 | 75% * 1,561 | 78 = | \$2,518 | 88 | 351 | | | |

Table 9a (Remand)

| | | NOTIME | NONSUPEWAGE | JOB | CAT | SHIFTS | # SAMPS | # INIT | % INITADD | # PLANTS | #PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|---|-------|-------------|-------------|------|-----|--------|---------|--------|-----------|----------|--------------|---------------|-------|-----------|
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 19.13 | 3 * | 3 * | 3 * | 2 * | 75% | * | 347 | 17 = | \$3,355 | 175 | 702 |
| | Small | (0.25 * \$ | 19.13 | 2 * | 1 * | 2 * | 2 * | 75% | * | 703 | 35 = | \$1,009 | 53 | 211 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ | 27.66 | 3 * | 3 * | 12 * | 2 * | 75% | * | 5 | 0 = | \$304 | 11 | 44 |
| | Small | (0.25 * \$ | 27.66 | 2 * | 1 * | 4 * | 2 * | 75% | * | 17 | 1 = | \$71 | 3 | 10 |
| Fiber, Flat and Container Glass | Large | (0.25 * \$ | 27.66 | 3 * | 3 * | 12 * | 2 * | 75% | * | 78 | 4 = | \$4,354 | 157 | 630 |
| | Small | (0.25 * \$ | 27.66 | 2 * | 1 * | 4 * | 2 * | 75% | * | 5 | 0 = | \$19 | 1 | 3 |
| SECTOR 22. Printing | | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 19.97 | 3 * | 3 * | 2 * | 2 * | 75% | * | 92 | 5 = | \$619 | 31 | 124 |
| | Small | (0.25 * \$ | 19.97 | 2 * | 1 * | 2 * | 2 * | 75% | * | 367 | 18 = | \$550 | 28 | 110 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | |
| Catalyst Users | Large | (0.25 * \$ | 31.14 | 2 * | 3 * | 3 * | 2 * | 75% | * | 164 | 8 = | \$1,728 | 55 | 222 |
| | Small | (0.25 * \$ | 31.14 | 0 * | 1 * | 3 * | 2 * | 0% | * | 0 | 0 = | \$0 | 0 | 0 |
| Chromium Catalyst Service Companies | Large | (0.25 * \$ | 31.14 | 2 * | 3 * | 3 * | 2 * | 75% | * | 21 | 1 = | \$223 | 7 | 29 |
| | Small | (0.25 * \$ | 31.14 | 0 * | 1 * | 3 * | 2 * | 0% | * | 4 | 0 = | \$0 | 0 | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 24.56 | 9 * | 1 * | 15 * | 2 * | 75% | * | 6 | 0 = | \$366 | 15 | 60 |
| | Small | (0.25 * \$ | 24.56 | 0 * | 1 * | 0 * | 2 * | 75% | * | 0 | 0 = | \$0 | 0 | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 175 | 9 = | \$72 | 3 | 13 |
| | Small | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 93 | 5 = | \$39 | 2 | 7 |
| Maritime | Large | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 38 | 2 = | \$16 | 1 | 3 |
| | Small | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 34 | 2 = | \$14 | 1 | 3 |
| Construction | Large | (0.25 * \$ | 30.76 | 1 * | 1 * | 1 * | 2 * | 75% | * | 1,290 | 64 = | \$744 | 24 | 97 |
| | Small | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 5,162 | 258 = | \$2,141 | 97 | 387 |
| Government | State | (0.25 * \$ | 30.76 | 1 * | 1 * | 1 * | 2 * | 75% | * | 16 | 1 = | \$9 | 0 | 1 |
| | Local | (0.25 * \$ | 22.11 | 1 * | 1 * | 1 * | 2 * | 75% | * | 59 | 3 = | \$24 | 1 | 4 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ | 26.09 | 6 * | 3 * | 15 * | 2 * | 75% | * | 48 | 2 = | \$6,362 | 244 | 975 |
| | Small | (0.25 * \$ | 26.09 | 6 * | 1 * | 3 * | 2 * | 75% | * | 58 | 3 = | \$509 | 20 | 78 |
| Government | State | (0.25 * \$ | 26.09 | 0 * | 3 * | 15 * | 2 * | 75% | * | 0 | 0 = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 26.09 | 6 * | 1 * | 3 * | 2 * | 75% | * | 29 | 1 = | \$254 | 10 | 39 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 26.75 | 12 * | 3 * | 3 * | 2 * | 75% | * | 18 | 1 = | \$957 | 36 | 143 |
| | Small | (0.25 * \$ | 26.75 | 0 * | 3 * | 3 * | 2 * | 0% | * | 0 | 0 = | \$0 | 0 | 0 |

Table 9a (Remand)

| | | NOTETIME | NONSUPEWAGE | JOB CAT | SHIFTS | # SAMP | # INIT | % INITADD | # PLANTS | # PLANTS * 5% | Item 12 COSTS | HOURS | RESPONSES |
|---|-------|-------------|-------------|------------------------------|--------|--------|----------------|--------------|------------------|---------------|----------------|-------|-----------|
| SECTOR 31. Construction - Cement Workers | | | | | | | | | | | | | |
| Industrial rehabilitation | Large | (0.25 * \$ | 30.79 | 4 * 1 * 3 * 2 * 75% * 55 | 3 | = | \$382 | 12 | 50 | | | | |
| | Small | (0.25 * \$ | 30.79 | 4 * 1 * 2 * 2 * 75% * 196 | 10 | = | \$907 | 29 | 118 | | | | |
| | State | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 100% * 16 | 1 | = | \$12 | 0 | 2 | | | | |
| | Local | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 100% * 74 | 4 | = | \$57 | 2 | 7 | | | | |
| Hazardous Waste site Work | Large | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 75% * 44 | 2 | = | \$25 | 1 | 3 | | | | |
| | Small | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 75% * 143 | 7 | = | \$83 | 3 | 11 | | | | |
| | State | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 75% * 1 | 0 | = | \$1 | 0 | 0 | | | | |
| Refractory Brick Restoration | Large | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 0% * 48 | 2 | = | \$0 | 0 | 0 | | | | |
| | Small | (0.25 * \$ | 30.79 | 1 * 1 * 1 * 2 * 0% * 148 | 7 | = | \$0 | 0 | 0 | | | | |
| Cement Workers | Large | (0.25 * \$ | 30.79 | 4 * 1 * 3 * 2 * 75% * 9,592 | 480 | = | \$66,441 | 2158 | 8633 | | | | |
| | Small | (0.25 * \$ | 30.79 | 4 * 1 * 2 * 2 * 75% * 76,673 | 3,834 | = | \$354,072 | 11501 | 46004 | | | | |
| | State | (0.25 * \$ | 30.79 | 4 * 1 * 3 * 2 * 75% * 23 | 1 | = | \$160 | 5 | 21 | | | | |
| | Local | (0.25 * \$ | 30.79 | 4 * 1 * 2 * 2 * 75% * 616 | 31 | = | \$2,844 | 92 | 369 | | | | |
| SECTOR 32. Pre-Cast Concrete Products | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 26.42 | 7 * 1 * 11 * 2 * 75% * 1,330 | 66 | = | \$50,715 | 1920 | 7678 | | | | |
| | Small | (0.25 * \$ | 26.42 | 5 * 1 * 6 * 2 * 75% * 2,187 | 109 | = | \$32,504 | 1230 | 4921 | | | | |
| SECTOR 32A. Ready Mix Concrete | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 26.42 | 7 * 1 * 11 * 2 * 75% * 1,994 | 100 | = | \$76,073 | 2879 | 11517 | | | | |
| | Small | (0.25 * \$ | 26.42 | 5 * 1 * 6 * 2 * 75% * 4,653 | 233 | = | \$69,157 | 2618 | 10470 | | | | |
| Total | | | | | | | 174,838 | 8,742 | \$749,837 | 26,091 | 104,365 | | |

Table 9b

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

COST = BURDEN HOURS * NON SUPEWAGE

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

Variables

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

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

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

* SHIFTS = Number of work shifts.

* #SAMPS = Number of samples per exposure measurement

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

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

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

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|---------------------------------|-------|---|-------------|-------|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | |
| Hard Chrome | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 49.00% * 930) = | | | | | | | | | \$34,863 | 1,368 | 5470 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 49.00% * 1,751) = | | | | | | | | | \$32,806 | 1,287 | 5148 |
| Job Shop Chrome Plater | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 11.00% * 448) = | | | | | | | | | \$3,771 | 148 | 592 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 11.00% * 843) = | | | | | | | | | \$3,548 | 139 | 557 |
| Captive Shop Chrome Plater | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 14.00% * 508) = | | | | | | | | | \$5,434 | 213 | 853 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 14.00% * 955) = | | | | | | | | | \$5,115 | 201 | 803 |
| Job Shop Plater | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 10.00% * 448) = | | | | | | | | | \$3,428 | 134 | 538 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 10.00% * 843) = | | | | | | | | | \$3,225 | 127 | 506 |
| Captive Shop Plater | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 13.00% * 509) = | | | | | | | | | \$5,065 | 199 | 795 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 13.00% * 959) = | | | | | | | | | \$4,767 | 187 | 748 |
| Operator | Large | (0.25 * \$ 25.49 * 1 * 2 * 3 * 2 * 100% * 16.00% * 930) = | | | | | | | | | \$11,384 | 447 | 1786 |
| | Small | (0.25 * \$ 25.49 * 1 * 1 * 3 * 2 * 100% * 16.00% * 1,751) = | | | | | | | | | \$10,712 | 420 | 1681 |
| Sector 2. Welding | | | | | | | | | | | | | |
| General Industry | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ 25.10 * 1 * 3 * 2 * 2 * 100% * 0.92% * 3,560) = | | | | | | | | | \$2,466 | 98 | 393 |
| | Small | (0.25 * \$ 25.10 * 1 * 1 * 3 * 2 * 100% * 0.92% * 3,989) = | | | | | | | | | \$1,382 | 55 | 220 |
| GMAW | Large | (0.25 * \$ 25.10 * 1 * 3 * 2 * 2 * 100% * 0.73% * 2,611) = | | | | | | | | | \$1,435 | 57 | 229 |
| | Small | (0.25 * \$ 25.10 * 1 * 1 * 3 * 2 * 100% * 0.73% * 2,925) = | | | | | | | | | \$804 | 32 | 128 |
| TIG | Large | (0.25 * \$ 25.10 * 1 * 3 * 2 * 2 * 100% * 0.00% * 791) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 25.10 * 1 * 1 * 3 * 2 * 100% * 0.00% * 886) = | | | | | | | | | \$0 | 0 | 0 |
| SAW | Large | (0.25 * \$ 25.10 * 0 * 3 * 2 * 2 * 100% * 0.00% * 316) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 25.10 * 0 * 1 * 3 * 2 * 100% * 0.00% * 354) = | | | | | | | | | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.25 * \$ 25.10 * 1 * 3 * 2 * 2 * 100% * 0.00% * 79) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 25.10 * 1 * 1 * 3 * 2 * 100% * 0.00% * 89) = | | | | | | | | | \$0 | 0 | 0 |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|--------------------------------|-------|-------------|-------------|--|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| Plasma Welding | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.00% * 79) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 2 * 100% * 0.00% * 89) = | | | | | | \$0 | 0 | 0 | |
| Resistance Welding | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 2 * 2 * 100% * 0.00% * 475) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 1 * 3 * 2 * 2 * 100% * 0.00% * 532) = | | | | | | \$0 | 0 | 0 | |
| MARITIME | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 18) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 10) = | | | | | | \$0 | 0 | 0 | |
| GMAW | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 24) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 14) = | | | | | | \$0 | 0 | 0 | |
| TIG | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 6) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 3) = | | | | | | \$0 | 0 | 0 | |
| FCAW | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 117) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 66) = | | | | | | \$0 | 0 | 0 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 4) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 2) = | | | | | | \$0 | 0 | 0 | |
| Plasma Welding | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 2) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 1) = | | | | | | \$0 | 0 | 0 | |
| Oxy-fuel Cutting | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 4) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 2) = | | | | | | \$0 | 0 | 0 | |
| Air Carbon Arc Cutting | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 2) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 2 * 1 * 2 * 100% * 0.00% * 1) = | | | | | | \$0 | 0 | 0 | |
| Electric Torch Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 0) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 0) = | | | | | | \$0 | 0 | 0 | |
| Thermal Spray Tungsten Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 0) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 0) = | | | | | | \$0 | 0 | 0 | |
| SAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 16) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 9) = | | | | | | \$0 | 0 | 0 | |
| CONSTRUCTION | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 * 1 | * 3 * 1 * 2 * 100% * 0.00% * 202) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 1 * 1 * 2 * 2 * 100% * 0.00% * 1,620) = | | | | | | \$0 | 0 | 0 | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 3) = | | | | | | \$0 | 0 | 0 | |
| | Small | (0.25 * \$ | 25.10 * 1 | * 1 * 1 * 2 * 2 * 100% * 0.00% * 21) = | | | | | | \$0 | 0 | 0 | |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|--|-------|-------------|-------------|-------|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| GMAW | Large | (0.25 * \$ | 25.10 * 1 | * 3 | * 1 | * 2 | * 100% | * 0.00% | * 41 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 324 |) = | \$0 | 0 | 0 |
| Brazing | State | (0.25 * \$ | 25.10 * 1 | * 3 | * 1 | * 2 | * 100% | * 0.00% | * 20 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 162 |) = | \$0 | 0 | 0 |
| Metallizing | State | (0.25 * \$ | 25.10 * 1 | * 3 | * 1 | * 2 | * 100% | * 0.00% | * 4 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 32 |) = | \$0 | 0 | 0 |
| GOVERNMENT | | | | | | | | | | | | | |
| SMAW | State | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 19 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 594 |) = | \$0 | 0 | 0 |
| Plasma Cutting | State | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 0 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 8 |) = | \$0 | 0 | 0 |
| GMAW | State | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 4 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 119 |) = | \$0 | 0 | 0 |
| Brazing | State | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 2 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 59 |) = | \$0 | 0 | 0 |
| Metallizing | State | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 1 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 25.10 * 1 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 12 |) = | \$0 | 0 | 0 |
| Sector 2. Mild Steel Welding GENERAL INDUSTRY | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 4,773 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 4,859 |) = | \$0 | 0 | 0 |
| GMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 3,500 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 3,563 |) = | \$0 | 0 | 0 |
| TIG | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 1,060 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 1,080 |) = | \$0 | 0 | 0 |
| SAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 424 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 432 |) = | \$0 | 0 | 0 |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 106 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 108 |) = | \$0 | 0 | 0 |
| Plasma Welding | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 106 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 108 |) = | \$0 | 0 | 0 |
| Resistance Welding | Large | (0.25 * \$ | 25.10 * 0 | * 3 | * 2 | * 2 | * 100% | * 0.00% | * 636 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 | * 3 | * 2 | * 100% | * 0.00% | * 648 |) = | \$0 | 0 | 0 |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|--------------------------------|-------|-------------|-------------|--|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| MARITIME | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 37) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 21) = | | \$0 | 0 | 0 | | | | | |
| GMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 54) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 30) = | | \$0 | 0 | 0 | | | | | |
| TIG | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 13) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 7) = | | \$0 | 0 | 0 | | | | | |
| FCAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 251) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 142) = | | \$0 | 0 | 0 | | | | | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 8) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 5) = | | \$0 | 0 | 0 | | | | | |
| Plasma Welding | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 3) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 2) = | | \$0 | 0 | 0 | | | | | |
| Oxy-fuel Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 8) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 5) = | | \$0 | 0 | 0 | | | | | |
| Air Carbon Arc Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 3) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 2) = | | \$0 | 0 | 0 | | | | | |
| Electric Torch Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 1) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 0) = | | \$0 | 0 | 0 | | | | | |
| Thermal Spray Tungsten Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 1) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 0) = | | \$0 | 0 | 0 | | | | | |
| SAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 33) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 2 * 1 * 2 * 100% * 0.00% * 18) = | | \$0 | 0 | 0 | | | | | |
| CONSTRUCTION | | | | | | | | | | | | | |
| SMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 304) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 * 1 * 2 * 100% * 0.00% * 2,293) = | | \$0 | 0 | 0 | | | | | |
| Plasma Cutting | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 4) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 * 1 * 2 * 100% * 0.00% * 30) = | | \$0 | 0 | 0 | | | | | |
| GMAW | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 60) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 * 1 * 2 * 100% * 0.00% * 458) = | | \$0 | 0 | 0 | | | | | |
| Brazing | Large | (0.25 * \$ | 25.10 * 0 | * 3 * 1 * 2 * 100% * 0.00% * 30) = | | \$0 | 0 | 0 | | | | | |
| | Small | (0.25 * \$ | 25.10 * 0 | * 1 * 1 * 2 * 100% * 0.00% * 230) = | | \$0 | 0 | 0 | | | | | |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|---|-------|---|-------------|-------|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| Metallizing | Large | (0.25 * \$ 25.10 * 0 * 3 * 1 * 2 * 100% * 0.00% * 6) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 25.10 * 0 * 1 * 1 * 2 * 100% * 0.00% * 46) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 3. PAINTING | | | | | | | | | | | | | |
| AEROSPACE | Large | (0.25 * \$ 31.68 * 1 * 3 * 3 * 2 * 100% * 28.00% * 50) = | | | | | | | | | \$1,983 | 63 | 250 |
| | Small | (0.25 * \$ 31.68 * 1 * 1 * 3 * 2 * 100% * 9.00% * 63) = | | | | | | | | | \$268 | 8 | 34 |
| General Industry (Autobody) | Large | (0.25 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 5.00% * 331) = | | | | | | | | | \$262 | 8 | 33 |
| | Small | (0.25 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 5.00% * 1,458) = | | | | | | | | | \$1,155 | 36 | 146 |
| General Industry (Coil Coating) | Large | (0.25 * \$ 31.68 * 1 * 2 * 3 * 2 * 100% * 8.00% * 101) = | | | | | | | | | \$769 | 24 | 97 |
| | Small | (0.25 * \$ 31.68 * 1 * 1 * 3 * 2 * 100% * 8.00% * 18) = | | | | | | | | | \$70 | 2 | 9 |
| Maritime | Large | (0.25 * \$ 31.68 * 2 * 3 * 1 * 2 * 100% * 36.00% * 294) = | | | | | | | | | \$10,055 | 317 | 1270 |
| | Small | (0.25 * \$ 31.68 * 0 * 1 * 1 * 2 * 100% * 36.00% * 508) = | | | | | | | | | \$0 | 0 | 0 |
| Construction | Large | (0.25 * \$ 31.68 * 1 * 3 * 1 * 2 * 100% * 22.00% * 765) = | | | | | | | | | \$7,998 | 252 | 1010 |
| | Small | (0.25 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 22.00% * 4,067) = | | | | | | | | | \$14,174 | 447 | 1790 |
| Government | State | (0.25 * \$ 31.68 * 1 * 3 * 1 * 2 * 100% * 12.00% * 16) = | | | | | | | | | \$93 | 3 | 12 |
| | Local | (0.25 * \$ 31.68 * 1 * 1 * 1 * 2 * 100% * 12.00% * 899) = | | | | | | | | | \$1,709 | 54 | 216 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 37.06 * 3 * 3 * 3 * 2 * 100% * 45.00% * 2) = | | | | | | | | | \$469 | 13 | 51 |
| | Small | (0.25 * \$ 37.06 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 36.12 * 5 * 2 * 3 * 2 * 100% * 71.00% * 2) = | | | | | | | | | \$761 | 21 | 84 |
| | Small | (0.25 * \$ 36.12 * 1 * 1 * 3 * 2 * 100% * 50.00% * 1) = | | | | | | | | | \$27 | 1 | 3 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 30.60 * 1 * 3 * 3 * 2 * 100% * 33.00% * 3) = | | | | | | | | | \$116 | 4 | 15 |
| | Small | (0.25 * \$ 30.60 * 0 * 3 * 0 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 37.06 * 6 * 3 * 3 * 2 * 100% * 100.00% * 5) = | | | | | | | | | \$5,207 | 141 | 562 |
| | Small | (0.25 * \$ 37.06 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 27.60 * 1 * 2 * 3 * 2 * 100% * 13.00% * 87) = | | | | | | | | | \$941 | 34 | 136 |
| | Small | (0.25 * \$ 27.60 * 1 * 2 * 3 * 2 * 100% * 13.00% * 137) = | | | | | | | | | \$1,479 | 54 | 214 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 27.65 * 3 * 1 * 9 * 2 * 100% * 69.00% * 3) = | | | | | | | | | \$776 | 28 | 112 |
| | Small | (0.25 * \$ 27.65 * 2 * 1 * 5 * 2 * 100% * 69.00% * 10) = | | | | | | | | | \$958 | 35 | 139 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 30.64 * 2 * 3 * 3 * 2 * 100% * 51.00% * 86) = | | | | | | | | | \$12,101 | 395 | 1580 |
| | Small | (0.25 * \$ 30.64 * 2 * 1 * 3 * 2 * 100% * 51.00% * 42) = | | | | | | | | | \$1,973 | 64 | 258 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|---------------------------------------|-------|--|-------------|-------|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| ALL | Large | (0.25 * \$ 27.50 * 1 * 1 * 3 * 2 * 100% * 100.00% * 4) = | | | | | | | | | \$182 | 7 | 27 |
| | Small | (0.25 * \$ 27.50 * 1 * 1 * 3 * 2 * 100% * 100.00% * 3) = | | | | | | | | | \$122 | 4 | 18 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 37.17 * 2 * 3 * 3 * 2 * 100% * 100.00% * 1) = | | | | | | | | | \$335 | 9 | 36 |
| | Small | (0.25 * \$ 37.17 * 0 * 1 * 1 * 2 * 0% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | |
| Alloy and Stainless Steel | Large | (0.25 * \$ 37.17 * 3 * 3 * 3 * 2 * 100% * 38.00% * 37) = | | | | | | | | | \$7,107 | 191 | 765 |
| | Small | (0.25 * \$ 37.17 * 1 * 1 * 3 * 2 * 100% * 38.00% * 12) = | | | | | | | | | \$253 | 7 | 27 |
| Carbon Steel | Large | (0.25 * \$ 37.17 * 0 * 3 * 3 * 2 * 100% * 0.00% * 112) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 37.17 * 0 * 1 * 1 * 2 * 100% * 0.00% * 35) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 14B. Forging Industry | | | | | | | | | | | | | |
| Reshaping | Large | (0.25 * \$ 37.17 * 4 * 1 * 3 * 2 * 100% * 63.00% * 37) = | | | | | | | | | \$5,138 | 138 | 553 |
| | Small | (0.25 * \$ 37.17 * 2 * 1 * 3 * 2 * 100% * 63.00% * 34) = | | | | | | | | | \$2,421 | 65 | 260 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 27.12 * 6 * 3 * 5 * 2 * 100% * 100.00% * 178) = | | | | | | | | | \$217,522 | 8,020 | 32080 |
| | Small | (0.25 * \$ 27.12 * 5 * 1 * 5 * 2 * 100% * 100.00% * 130) = | | | | | | | | | \$43,944 | 1,620 | 6481 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 36.12 * 6 * 1 * 21 * 2 * 100% * 38.00% * 3) = | | | | | | | | | \$2,564 | 71 | 284 |
| | Small | (0.25 * \$ 36.12 * 6 * 1 * 7 * 2 * 100% * 38.00% * 1) = | | | | | | | | | \$285 | 8 | 32 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 39.76 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 39.76 * 1 * 1 * 3 * 2 * 100% * 27.00% * 5) = | | | | | | | | | \$84 | 2 | 8 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 28.67 * 0 * 1 * 3 * 2 * 100% * 0.00% * 207) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 28.67 * 0 * 1 * 3 * 2 * 100% * 0.00% * 1,561) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 19.13 * 0 * 3 * 3 * 2 * 100% * 0.00% * 347) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 19.13 * 0 * 1 * 2 * 2 * 100% * 0.00% * 703) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ 27.66 * 1 * 3 * 12 * 2 * 100% * 25.00% * 5) = | | | | | | | | | \$675 | 24 | 98 |
| | Small | (0.25 * \$ 27.66 * 0 * 1 * 4 * 2 * 100% * 0.00% * 17) = | | | | | | | | | \$0 | 0 | 0 |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|---------------------------------------|-------|---|-------------|-------|--------|--------|---------------|----------|----------|---------|--------------|-------------|-----------|
| Fiber, Flat, Container Glass | Large | (0.25 * \$ 27.66 * 3 * 1 * 1 * 2 * 100% * 20.00% * 78) = | | | | | | | | | \$645 | 23 | 93 |
| | Small | (0.25 * \$ 27.66 * 0 * 1 * 1 * 2 * 100% * 0.00% * 5) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 22. Printing | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 19.97 * 0 * 3 * 2 * 2 * 100% * 0.00% * 92) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 19.97 * 0 * 1 * 2 * 2 * 100% * 0.00% * 367) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | |
| Catalyst Users | Large | (0.25 * \$ 31.14 * 2 * 3 * 3 * 2 * 100% * 9.00% * 164) = | | | | | | | | | \$4,148 | 133 | 533 |
| | Small | (0.25 * \$ 31.14 * 0 * 1 * 3 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| Chromium Catalyst Service Companies | Large | (0.25 * \$ 31.14 * 0 * 3 * 3 * 2 * 100% * 0.00% * 21) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 31.14 * 0 * 1 * 3 * 2 * 100% * 0.00% * 4) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ 24.56 * 0 * 1 * 15 * 2 * 100% * 0.00% * 6) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 24.56 * 0 * 1 * 0 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ 30.76 * 0 * 1 * 2 * 2 * 100% * 0.00% * 175) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 30.76 * 0 * 1 * 2 * 2 * 100% * 0.00% * 93) = | | | | | | | | | \$0 | 0 | 0 |
| Maritime | Large | (0.25 * \$ 30.76 * 0 * 1 * 1 * 2 * 100% * 0.00% * 38) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 30.76 * 0 * 1 * 1 * 2 * 100% * 0.00% * 34) = | | | | | | | | | \$0 | 0 | 0 |
| Construction | Large | (0.25 * \$ 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * 1,290) = | | | | | | | | | \$4,364 | 142 | 567 |
| | Small | (0.25 * \$ 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * 5,162) = | | | | | | | | | \$17,469 | 568 | 2271 |
| Government | State | (0.25 * \$ 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * 16) = | | | | | | | | | \$55 | 2 | 7 |
| | Local | (0.25 * \$ 30.76 * 1 * 1 * 1 * 2 * 100% * 22.00% * 59) = | | | | | | | | | \$199 | 6 | 26 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | |
| General Industry | Large | (0.25 * \$ 26.09 * 0 * 3 * 15 * 2 * 100% * 0.00% * 48) = | | | | | | | | | \$0 | 0 | 0 |
| | Small | (0.25 * \$ 26.09 * 0 * 1 * 3 * 2 * 100% * 0.00% * 58) = | | | | | | | | | \$0 | 0 | 0 |
| Government | State | (0.25 * \$ 26.09 * 0 * 3 * 15 * 2 * 100% * 0.00% * 0) = | | | | | | | | | \$0 | 0 | 0 |
| | Local | (0.25 * \$ 26.09 * 0 * 1 * 3 * 2 * 100% * 0.00% * 29) = | | | | | | | | | \$0 | 0 | 0 |

Table 9b

| | | NOTETIME | NONSUPEWAGE | JOBAL | SHIFTS | #SAMPS | SEMI-ANNUALLY | %NOTSEMI | %ABOVEAL | #PLANTS | ITEM 12 COST | TOTAL HOURS | RESPONSES |
|---|-------|-------------|-------------|-------|--------|--------|---------------|----------|----------|---------|------------------|---------------|---------------|
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | |
| ALL | Large | (0.25 * \$ | 26.75 * 0 | * 3 | * 3 | * 2 | * 100% | * 0.00% | * 18 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 26.75 * 0 | * 3 | * 3 | * 2 | * 100% | * 0.00% | * 0 |) = | \$0 | 0 | 0 |
| SECTOR 31. Construction Cement Workers | | | | | | | | | | | | | |
| Industrial Rehabilitation | Large | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 55 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 196 |) = | \$0 | 0 | 0 |
| | State | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 16 |) = | \$0 | 0 | 0 |
| | Local | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 74 |) = | \$0 | 0 | 0 |
| Hazardous Waste-site Work | Large | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 44 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 143 |) = | \$0 | 0 | 0 |
| | State | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 0.00% | * 1 |) = | \$0 | 0 | 0 |
| Refractory Brick Restoration | Large | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 60.00% | * 48 |) = | \$0 | 0 | 0 |
| | Small | (0.25 * \$ | 30.79 * 0 | * 1 | * 1 | * 2 | * 100% | * 60.00% | * 148 |) = | \$0 | 0 | 0 |
| 77,770 | | | | | | | | | | | \$466,191 | 16,790 | 67,160 |

Table 10

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

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

COST = BURDEN HOURS * NONSUPEWAGE

***ASSUMPTIONS:**

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

| | | QLFITTIME | QLFITTECH | QLFITTEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | RESPONSES |
|--------------------------------------|-------|-------------------|-----------|-----------|------------|---------|--------------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 5,447 * | 71% * | 1) = | 1,934 * | \$ 25.49 = | \$49,294 | 3,867 |
| | Small | (0.25 + 0.25) * | | 1,188 * | 97% * | 1) = | 576 * | \$ 25.49 = | \$14,683 | 1,152 |
| Sector 2. Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.25 + 0.25) * | | 2,874 * | 81% * | 1) = | 1,164 * | \$ 25.10 = | \$29,213 | 2,328 |
| | Small | (0.25 + 0.25) * | | 2,101 * | 98% * | 1) = | 1,030 * | \$ 25.10 = | \$25,844 | 2,059 |
| MARITIME | Large | (0.25 + 0.25) * | | 2,345 * | 55% * | 1) = | 645 * | \$ 25.10 = | \$16,190 | 1,290 |
| | Small | (0.25 + 0.25) * | | 55 * | 95% * | 1) = | 26 * | \$ 25.10 = | \$661 | 53 |
| CONSTRUCTION | Large | (0.25 + 0.25) * | | 3,247 * | 88% * | 1) = | 1,429 * | \$ 25.10 = | \$35,863 | 2,858 |
| | Small | (0.25 + 0.25) * | | 2,511 * | 99% * | 1) = | 1,243 * | \$ 25.10 * | \$31,196 | 2,486 |
| GOVERNMENT | State | (0.25 + 0.25) * | | 15 * | 88% * | 1) = | 6 * | \$ 25.10 * | \$161 | 13 |
| | Local | (0.25 + 0.25) * | | 74 * | 99% * | 1) = | 37 * | \$ 25.10 * | \$919 | 73 |
| Sector 2A. Mild Steel Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.25 + 0.25) * | | 696 * | 81% * | 1) = | 282 * | \$ 25.10 = | \$7,071 | 563 |
| | Small | (0.25 + 0.25) * | | 2,101 * | 98% * | 1) = | 1,030 * | \$ 25.10 = | \$25,844 | 2,059 |
| MARITIME | Large | (0.25 + 0.25) * | | 17 * | 55% * | 1) = | 5 * | \$ 25.10 = | \$114 | 9 |
| | Small | (0.25 + 0.25) * | | 0 * | 95% * | 1) = | 0 * | \$ 25.10 = | \$0 | 0 |
| CONSTRUCTION | Large | (0.25 + 0.25) * | | 662 * | 88% * | 1) = | 291 * | \$ 25.10 = | \$7,317 | 583 |
| | Small | (0.25 + 0.25) * | | 533 * | 99% * | 1) = | 264 * | \$ 25.10 = | \$6,624 | 528 |
| GOVERNMENT | State | (0.25 + 0.25) * | | 15 * | 88% * | 1) = | 6 * | \$ 25.10 = | \$161 | 13 |
| | Local | (0.25 + 0.25) * | | 74 * | 99% * | 1) = | 37 * | \$ 25.10 = | \$919 | 73 |
| SECTOR 3. Painting | | | | | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | (0.25 + 0.25) * | | 46 * | 81% * | 50) = | 925 * | \$ 31.68 = | \$29,311 | 1,851 |
| | Small | (0.25 + 0.25) * | | 0 * | 98% * | 63) = | 4 * | \$ 31.68 = | \$125 | 8 |

Table 10

| | | QLFITIME | QLFITTECH | QLFITEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | RESPONSES |
|---|-------|-------------------|-----------|----------|------------|-----------|--------------|-------------|--------------|-----------|
| GENERAL INDUSTRY (AUTO BODY REPAIR) | Large | (0.25 + 0.25) * | | 1 * | 81% * | 331) = | 123 * \$ | 31.68 = | \$3,908 | 247 |
| | Small | (0.25 + 0.25) * | | 0 * | 98% * | 1,458) = | 151 * \$ | 31.68 = | \$4,788 | 302 |
| COIL COATING | Large | (0.25 + 0.25) * | | 2 * | 81% * | 101) = | 75 * \$ | 31.68 = | \$2,388 | 151 |
| | Small | (0.25 + 0.25) * | | 1 * | 98% * | 18) = | 8 * \$ | 31.68 = | \$263 | 17 |
| MARITIME | Large | (0.25 + 0.25) * | | 3 * | 55.00% * | 294) = | 235 * \$ | 31.68 = | \$7,430 | 469 |
| | Small | (0.25 + 0.25) * | | 1 * | 95% * | 508) = | 243 * \$ | 31.68 = | \$7,700 | 486 |
| CONSTRUCTION | Large | (0.25 + 0.25) * | | 471 * | 0% * | 1) = | 0 * \$ | 31.68 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 593 * | 0% * | 1) = | 0 * \$ | 31.68 = | \$0 | 0 |
| | State | (0.25 + 0.25) * | | 43 * | 0% * | 1) = | 0 * \$ | 31.68 = | \$0 | 0 |
| | Local | (0.25 + 0.25) * | | 186 * | 0% * | 1) = | 0 * \$ | 31.68 = | \$0 | 0 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 7 * | 37% * | 2) = | 3 * \$ | 37.06 = | \$104 | 6 |
| | Small | (0.25 + 0.25) * | | 0 * | 93% * | 0) = | 0 * \$ | 37.06 = | \$0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 9 * | 37% * | 2) = | 3 * \$ | 36.12 = | \$118 | 7 |
| | Small | (0.25 + 0.25) * | | 1 * | 93% * | 1) = | 0 * \$ | 36.12 = | \$16 | 1 |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 2 * | 37% * | 3) = | 1 * \$ | 30.60 = | \$25 | 2 |
| | Small | (0.25 + 0.25) * | | 0 * | 93% * | 0) = | 0 * \$ | 30.60 = | \$0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 12 * | 37% * | 5) = | 12 * \$ | 37.06 = | \$446 | 24 |
| | Small | (0.25 + 0.25) * | | 0 * | 93% * | 0) = | 0 * \$ | 37.06 = | \$0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 1 * | 37% * | 87) = | 17 * \$ | 27.60 = | \$465 | 34 |
| | Small | (0.25 + 0.25) * | | 0 * | 93% * | 137) = | 0 * \$ | 27.60 = | \$0 | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 12 * | 37% * | 3) = | 7 * \$ | 27.65 = | \$186 | 13 |
| | Small | (0.25 + 0.25) * | | 3 * | 93% * | 10) = | 14 * \$ | 27.65 = | \$389 | 28 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 361 * | 54% * | 1) = | 97 * \$ | 30.64 = | \$2,986 | 195 |
| | Small | (0.25 + 0.25) * | | 36 * | 95% * | 1) = | 17 * \$ | 30.64 = | \$531 | 35 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 3 * | 37% * | 4) = | 2 * \$ | 27.50 = | \$67 | 5 |
| | Small | (0.25 + 0.25) * | | 1 * | 93% * | 3) = | 1 * \$ | 27.50 = | \$38 | 3 |

Table 10

| | | QLFITIME | QLFITTECH | QLFITEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | RESPONSES |
|--|-------|-------------------|-----------|----------|------------|-----------|--------------|-------------|--------------|-----------|
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 8 * | 56% * | 1) = | 2 * \$ | 37.17 = | \$83 | 4 |
| | Small | (0.25 + 0.25) * | | 0 * | 95% * | 0) = | 0 * \$ | 37.17 = | \$0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 30 * | 56% * | 37) = | 308 * \$ | 37.17 = | \$11,454 | 616 |
| | Small | (0.25 + 0.25) * | | 1 * | 95% * | 12) = | 8 * \$ | 37.17 = | \$297 | 16 |
| CARBON STEEL | Large | (0.25 + 0.25) * | | 1 * | 56% * | 112) = | 22 * \$ | 37.17 = | \$818 | 44 |
| | Small | (0.25 + 0.25) * | | 1 * | 95% * | 35) = | 23 * \$ | 37.17 = | \$873 | 47 |
| 14b. FORGING INDUSTRY | | | | | | | | | | |
| RESHAPING INDUSTRY | Large | (0.25 + 0.25) * | | 3 * | 56% * | 37) = | 29 * \$ | 37.17 = | \$1,070 | 58 |
| | Small | (0.25 + 0.25) * | | 1 * | 95% * | 34) = | 12 * \$ | 37.17 = | \$428 | 23 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 19 * | 56% * | 178) = | 943 * \$ | 27.12 = | \$25,584 | 1,887 |
| | Small | (0.25 + 0.25) * | | 5 * | 95% * | 130) = | 277 * \$ | 27.12 = | \$7,515 | 554 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 32 * | 37% * | 3) = | 17 * \$ | 36.12 = | \$627 | 35 |
| | Small | (0.25 + 0.25) * | | 7 * | 93% * | 1) = | 3 * \$ | 36.12 = | \$115 | 6 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 37% * | 0) = | 0 * \$ | 39.76 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 93% * | 5) = | 0 * \$ | 39.76 = | \$0 | 0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 92% * | 207) = | 0 * \$ | 28.67 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% * | 1,561) = | 0 * \$ | 28.67 = | \$0 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 89% * | 347) = | 0 * \$ | 19.13 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% * | 703) = | 0 * \$ | 19.13 = | \$0 | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 1 * | 76% * | 5) = | 2 * \$ | 27.66 = | \$52 | 4 |
| | Small | (0.25 + 0.25) * | | 0 * | 97% * | 17) = | 0 * \$ | 27.66 = | \$0 | 0 |
| FIBER, FLAT, AND CONTAINER GLASS | Large | (0.25 + 0.25) * | | 8 * | 76% * | 78) = | 240 * \$ | 27.66 = | \$6,647 | 481 |
| | Small | (0.25 + 0.25) * | | 2 * | 97% * | 5) = | 4 * \$ | 27.66 = | \$110 | 8 |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 98% * | 92) = | 0 * \$ | 19.97 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99.70% * | 367) = | 0 * \$ | 19.97 = | \$0 | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| Chromium Catalyst Users | Large | (0.25 + 0.25) * | | 1 * | 67% * | 1) = | 0 * \$ | 31.14 = | \$11 | 1 |
| | Small | (0.25 + 0.25) * | | 0 * | 97% * | 0) = | 0 * \$ | 31.14 = | \$0 | 0 |

Table 10

| | | QLFITIME | QLFITTECH | QLFITEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | RESPONSES |
|---|-------|-------------------|-----------|----------|------------|--------------|---------------|------------------|---------------|-----------|
| Catalyst Service Companies | Large | (0.25 + 0.25) * | | 0 * | 0% | * 1) = | 0 * | \$ 31.14 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 0% | * 1) = | 0 * | \$ 31.14 = | \$0 | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 76% | * 6) = | 0 * | \$ 24.56 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 97% | * 0) = | 0 * | \$ 24.56 = | \$0 | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.25 + 0.25) * | | 0 * | 94% | * 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% | * 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| MARITIME | Large | (0.25 + 0.25) * | | 0 * | 55% | 38) = | 0 * | \$ 30.76 = | \$0 | |
| | Small | (0.25 + 0.25) * | | 0 * | 95% | 34) = | 0 * | \$ 30.76 = | \$0 | |
| CONSTRUCTION | Large | (0.25 + 0.25) * | | 0 * | 88% | 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% | * 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| GOVERNMENT | State | (0.25 + 0.25) * | | 0 * | 88% | * 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| | Local | (0.25 + 0.25) * | | 0 * | 88% | * 1) = | 0 * | \$ 30.76 = | \$0 | 0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 6 * | 59% | * 48) = | 87 * | \$ 26.09 = | \$2,273 | 174 |
| | Small | (0.25 + 0.25) * | | 1 * | 96% | * 58) = | 24 * | \$ 26.09 = | \$634 | 49 |
| GOVERNMENT | State | (0.25 + 0.25) * | | 0 * | 59% | * 0) = | 0 * | \$ 26.09 = | \$0 | |
| | Local | (0.25 + 0.25) * | | 0 * | 96% | * 29) = | 0 * | \$ 26.09 = | \$0 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | |
| ALL | Large | (0.25 + 0.25) * | | 0 * | 56% | * 18) = | 0 * | \$ 26.75 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 95% | * 0) = | 0 * | \$ 26.75 = | \$0 | 0 |
| SECTOR 31. Construction | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (0.25 + 0.25) * | | 0 * | 88% | * 55) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% | * 196) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | State | (0.25 + 0.25) * | | 0 * | 88% | * 16) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Local | (0.25 + 0.25) * | | 0 * | 88% | * 74) = | 0 * | \$ 30.79 = | \$0 | 0 |
| HAZARDOUS WASTE-SITE WORK | Large | (0.25 + 0.25) * | | 0 * | 88% | * 1) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% | * 1) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | State | (0.25 + 0.25) * | | 0 * | 88% | * 1) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Local | (0.25 + 0.25) * | | 0 * | 88% | * 1) = | 0 * | \$ 30.79 = | \$0 | 0 |
| REFRACTORY BRICK RESTORATION | Large | (0.25 + 0.25) * | | 0 * | 88% | * 48) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.25 + 0.25) * | | 0 * | 99% | * 148) = | 0 * | \$ 30.79 = | \$0 | 0 |
| Total | | | | | | 7,853 | 13,947 | \$371,946 | 27,894 | |

Table 11

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

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

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

* QLFITMTRLS = Cost of materials per qualitative fit-testing

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

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

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

| Variables | | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--------------------------------------|-------|------------|-----------|------------|---------|--------------|
| Sector 1. Electroplating | | | | | | |
| ALL | Large | (\$ 0.08 | * 5,447) | * 71% | * 1 | = \$ 307 |
| | Small | (\$ 0.08 | * 1,188) | * 97% | * 1 | = \$ 91 |
| Sector 2. Welding | | | | | | |
| GENERAL INDUSTRY | Large | (\$ 0.08 | * 2,874) | * 81% | * 1 | = \$ 185 |
| | Small | (\$ 0.08 | * 2,101) | * 98% | * 1 | = \$ 164 |
| MARITIME | Large | (\$ 0.08 | * 2,345) | * 55% | * 1 | = \$ 102 |
| | Small | (\$ 0.08 | * 55) | * 95% | * 1 | = \$ 4 |
| CONSTRUCTION | Large | (\$ 0.08 | * 3,247) | * 88% | * 1 | = \$ 227 |
| | Small | (\$ 0.08 | * 2,511) | * 99% | * 1 | = \$ 197 |
| GOVERNMENT | State | (\$ 0.08 | * 15) | * 88% | * 1 | = \$ 1 |
| | Local | (\$ 0.08 | * 74) | * 99% | * 1 | = \$ 6 |
| Sector 2A. Mild Steel Welding | | | | | | |
| GENERAL INDUSTRY | Large | (\$ 0.08 | * 696) | * 81% | * 1 | = \$ 45 |
| | Small | (\$ 0.08 | * 2,101) | * 98% | * 1 | = \$ 164 |
| MARITIME | Large | (\$ 0.08 | * 17) | * 55% | * 1 | = \$ 1 |
| | Small | (\$ 0.08 | * 0) | * 95% | * 1 | = 0 |
| CONSTRUCTION | Large | (\$ 0.08 | * 662) | * 88% | * 1 | = \$ 46 |
| | Small | (\$ 0.08 | * 533) | * 99% | * 1 | = \$ 42 |
| GOVERNMENT | State | (\$ 0.08 | * 15) | * 88% | * 1 | = \$ 1 |
| | Local | (\$ 0.08 | * 74) | * 99% | * 1 | = \$ 6 |
| SECTOR 3. PAINTING | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | (\$ 0.08 | * 46) | * 81% | * 50 | = \$ 147 |
| | Small | (\$ 0.08 | * 0) | * 98% | * 63 | = \$ 1 |
| GENERAL INDUSTRY (AUTO BODY REPAIR) | Large | (\$ 0.08 | * 1) | * 81% | * 331 | = \$ 20 |
| | Small | (\$ 0.08 | * 0) | * 98% | * 1,458 | = \$ 24 |

Table 11

| Variables | | QLFITRLS | QLFITMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|---|-------|---------------------|----------|------------|---------|--------------|
| COIL COATING | Large | (\$ 0.08 * 2) * | 81% * | 101 = | \$ | 12 |
| | Small | (\$ 0.08 * 1) * | 98% * | 18 = | \$ | 1 |
| MARITIME | Large | (\$ 0.08 * 1) * | 55.00% * | 294 = | \$ | 13 |
| | Small | (\$ 0.08 * 0) * | 95% * | 508 = | \$ | 13 |
| CONSTRUCTION | Large | (\$ 0.08 * 471) * | 0.00% * | 1 = | | 0 |
| | Small | (\$ 0.08 * 593) * | 0.00% * | 1 = | | 0 |
| | State | (\$ 0.08 * 43) * | 0.00% * | 1 = | | 0 |
| | Local | (\$ 0.08 * 186) * | 0.00% * | 1 = | | 0 |
| SECTOR 4. Producers of Chromates | | | | | | |
| ALL | Large | (\$ 0.08 * 7) * | 37% * | 2 = | \$ | 0.45 |
| | Small | (\$ 0.08 * 0) * | 93% * | 0 = | | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | |
| ALL | Large | (\$ 0.08 * 9) * | 37% * | 2 = | \$ | 1 |
| | Small | (\$ 0.08 * 1) * | 93% * | 1 = | \$ | 0 |
| SECTOR 6. CCA Producers | | | | | | |
| ALL | Large | (\$ 0.08 * 4) * | 37% * | 3 = | \$ | 0.32 |
| | Small | (\$ 0.08 * 0) * | 93% * | 0 = | | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | |
| ALL | Large | (\$ 0.08 * 12) * | 37% * | 5 = | \$ | 2 |
| | Small | (\$ 0.08 * 0) * | 93% * | 0 = | | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | |
| ALL | Large | (\$ 0.08 * 1) * | 37% * | 87 = | \$ | 3 |
| | Small | (\$ 0.08 * 0) * | 93% * | 137 = | | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | |
| ALL | Large | (\$ 0.08 * 12) * | 37% * | 3 = | \$ | 1 |
| | Small | (\$ 0.08 * 3) * | 93% * | 10 = | \$ | 2 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | |
| ALL | Large | (\$ 0.08 * 361) * | 54% * | 1 = | \$ | 15 |
| | Small | (\$ 0.08 * 36) * | 95% * | 1 = | \$ | 3 |
| SECTOR 11. Plating Mixture Producers | | | | | | |
| ALL | Large | (\$ 0.08 * 3) * | 37% * | 4 = | \$ | 0.39 |
| | Small | (\$ 0.08 * 1) * | 93% * | 3 = | \$ | 0.22 |

Table 11

| Variables | | QLFITMTRLS | | QLFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 Cost | |
|---------------------------------------|-------|------------|----|----------|---|------------|---|---------|--------|--------------|---------------|
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 8 |) | * | 56% | * | 1 = \$ 0.36 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 95% | * | 0 = 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | (| \$ | 0.08 | * | 30 |) | * | 56% | * | 37 = \$ 49 |
| | Small | (| \$ | 0.08 | * | 1 |) | * | 95% | * | 12 = \$ 1 |
| Carbon Steel | Large | (| \$ | 0.08 | * | 1 |) | * | 56% | * | 112 = \$ 3 |
| | Small | (| \$ | 0.08 | * | 1 |) | * | 95% | * | 35 = \$ 4 |
| 14b. FORGING INDUSTRY | | | | | | | | | | | |
| RESHAPING INDUSTRY | Large | (| \$ | 0.08 | * | 3 |) | * | 56% | * | 37 = \$ 5 |
| | Small | (| \$ | 0.08 | * | 1 |) | * | 95% | * | 34 = \$ 2 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 19 |) | * | 56% | * | 178 = \$ 150 |
| | Small | (| \$ | 0.08 | * | 5 |) | * | 95% | * | 130 = \$ 44 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 32 |) | * | 37% | * | 3 = \$ 3 |
| | Small | (| \$ | 0.08 | * | 7 |) | * | 93% | * | 1 = \$ 0.51 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 0 |) | * | 37% | * | 0 = 0 |
| | Small | (| \$ | 0.08 | * | 1 |) | * | 93% | * | 5 = \$ 0.40 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 0 |) | * | 92% | * | 207 = 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 1,561 = 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 0 |) | * | 89% | * | 347 = 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 703 = 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 1 |) | * | 76% | * | 5 = \$ 0.30 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 97% | * | 17 = 0 |
| Fiber, Flat and Container Glass | Large | (| \$ | 0.08 | * | 8 |) | * | 76% | * | 78 = \$ 38.17 |
| | Small | (| \$ | 0.08 | * | 2 |) | * | 97% | * | 5 = \$ 1 |
| SECTOR 22. Printing | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 0 |) | * | 98% | * | 92 = 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99.70% | * | 367 = 0 |

Table 11

| Variables | | QLFITMTRLS | | QLFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 Cost | | | | |
|---|-------|------------|----|----------|---|------------|---|---------|-----|--------------|-----|---|----|------|
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | | | |
| CHROMIUM CATALYST USERS | Large | (| \$ | 0.08 | * | 1 |) | * | 67% | * | 1 | = | \$ | 0.05 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 97% | * | 0 | = | | 0 |
| CHROMIUM CATALYST COMPANIES | Large | (| \$ | 0.08 | * | 1 |) | * | 67% | * | 1 | = | \$ | 0.05 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 97% | * | 1 | = | | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 0 |) | * | 76% | * | 6 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 97% | * | 0 | = | | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (| \$ | 0.08 | * | 0 |) | * | 94% | * | 1 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 1 | = | | 0 |
| MARITIME | Large | (| \$ | 0.08 | * | 0 |) | * | 55% | * | 38 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 95% | * | 34 | = | | 0 |
| CONSTRUCTION | Large | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 1 | = | | 0 |
| GOVERNMENT | State | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |
| | Local | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | * | 6 |) | * | 59% | * | 48 | = | \$ | 14 |
| | Small | (| \$ | 0.08 | * | 1 |) | * | 96% | * | 58 | = | \$ | 4 |
| GOVERNMENT | State | (| \$ | 0.08 | * | 0 |) | * | 59% | * | 0 | = | | 0 |
| | Local | (| \$ | 0.08 | * | 0 |) | * | 96% | * | 29 | = | | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | | | |
| ALL | Large | (| \$ | 0.08 | + | 0 |) | * | 56% | * | 18 | = | | 0 |
| | Small | (| \$ | 0.08 | + | 0 |) | * | 95% | * | 0 | = | | 0 |
| SECTOR 31. Construction | | | | | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 55 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 196 | = | | 0 |
| | State | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 16 | = | | 0 |
| | Local | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 74 | = | | 0 |
| HAZARDOUS WASTE-SITE WORK | Large | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |
| | Small | (| \$ | 0.08 | * | 0 |) | * | 99% | * | 1 | = | | 0 |
| | State | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |
| | Local | (| \$ | 0.08 | * | 0 |) | * | 88% | * | 1 | = | | 0 |

Table 11

| Variables | | QLFITMTRLS | QLFITEMP | 1-%FITBASE | #PLANTS | Item 13 Cost |
|------------------------------|-------|-------------------|----------|------------|--------------|-----------------|
| REFRACTORY BRICK RESTORATION | Large | (\$ 0.08 * 0) * | 88% | * 48 | = | 0 |
| | Small | (\$ 0.08 * 0) * | 99% | * 148 | = | 0 |
| Total | | | | | 7,853 | \$ 2,166 |

Table 12

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

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

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

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

| | | QNFITTIME | QNFITTEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|-------------------------------------|-------|-------------|-----------|------------|---------|--------------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | |
| ALL | Large | (0.5 * 0) | * 71% | * 1 |) = | 0 * \$ 25.49 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 97% | * 1 |) = | 0 * \$ 25.49 | = | \$0 | 0 |
| Sector 2. Welding | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.5 * 0) | * 81% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 98% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| MARITIME | Large | (0.5 * 0) | * 55% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 95% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| CONSTRUCTION | Large | (0.5 * 0) | * 88% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 99% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| GOVERNMENT | State | (0.5 * 0) | * 88% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Local | (0.5 * 0) | * 99% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.5 * 0) | * 81% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 98% | * 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| MARITIME | Large | (0.5 * 0) | * 55% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 95% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| CONSTRUCTION | Large | (0.5 * 0) | * 82% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 99% | 1 |) = | 0 * \$ 25.10 | = | \$0 | 0 |
| SECTOR 3. PAINTING | | | | | | | | | |
| GENERAL INDUSTRY AEROSPACE | Large | (0.5 * 0) | * 81% | * 50 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 98% | * 63 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| GENERAL INDUSTRY AUTOBODY REPAIR | Large | (0.5 * 0) | * 81% | * 331 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 98% | * 1,458 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| COIL COATING | Large | (0.5 * 0) | * 81% | * 101 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 98% | * 18 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| MARITIME | Large | (0.5 * 0) | * 55.00% | 294 |) = | 0 * \$ 31.68 | = | \$0 | 0 |
| | Small | (0.5 * 0) | * 95% | 508 |) = | 0 * \$ 31.68 | = | \$0 | 0 |

Table 12

| | | QNFITIME | QNFITEMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|---|-------|---------------|----------|------------|---------|----------------|-------------|--------------|-----------|
| CONSTRUCTION | Large | (0.5 * 0) * | 0% | 1 |) = | 0 * \$ 31.68 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 0% | 1 |) = | 0 * \$ 31.68 = | \$0 | 0 | |
| GOVERNMENT | State | (0.5 * 0) * | 0% | 1 |) = | 0 * \$ 31.68 = | \$0 | 0 | |
| | Local | (0.5 * 0) * | 0% | 1 |) = | 0 * \$ 31.68 = | \$0 | 0 | |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 2 |) = | 0 * \$ 37.06 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 0 |) = | 0 * \$ 37.06 = | \$0 | 0 | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 2 |) = | 0 * \$ 36.12 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 1 |) = | 0 * \$ 36.12 = | \$0 | 0 | |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 3 |) = | 0 * \$ 30.60 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 0 |) = | 0 * \$ 30.60 = | \$0 | 0 | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 5 |) = | 0 * \$ 37.06 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 0 |) = | 0 * \$ 37.06 = | \$0 | 0 | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 87 |) = | 0 * \$ 27.60 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 137 |) = | 0 * \$ 27.60 = | \$0 | 0 | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 3 |) = | 0 * \$ 27.65 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 10 |) = | 0 * \$ 27.65 = | \$0 | 0 | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 54% | 1 |) = | 0 * \$ 30.64 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 95% | 1 |) = | 0 * \$ 30.64 = | \$0 | 0 | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | 4 |) = | 0 * \$ 27.50 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 93% | 3 |) = | 0 * \$ 27.50 = | \$0 | 0 | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 56% | 1 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 95% | 0 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| ALLOY AND STAINLESS STEEL | Large | (0.5 * 0) * | 56% | 37 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 95% | 12 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| CARBON STEEL | Large | (0.5 * 0) * | 56% | 112 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 95% | 35 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| 14b. FORGING INDUSTRY | | | | | | | | | |
| RESHAPING INDUSTRY | Large | (0.5 * 0) * | 56% | 37 |) = | 0 * \$ 37.17 = | \$0 | 0 | |
| | Small | (0.5 * 0) * | 95% | 34 |) = | 0 * \$ 37.17 = | \$0 | 0 | |

Table 12

| | | QNFITIME | QNFITMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|--|-------|-----------------|---------|-------------|-----------------|--------------|-------------|--------------|-----------|
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 56% | * 178) = | 0 * \$ 27.12 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 95% | * 130) = | 0 * \$ 27.12 = | \$0 | 0 | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | * 3) = | 0 * \$ 36.12 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 93% | * 1) = | 0 * \$ 36.12 = | \$0 | 0 | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 37% | * 0) = | 0 * \$ 39.76 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 93% | * 5) = | 0 * \$ 39.76 = | \$0 | 0 | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 92% | * 207) = | 0 * \$ 28.67 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 99% | * 1,561) = | 0 * \$ 28.67 = | \$0 | 0 | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 89% | * 347) = | 0 * \$ 19.13 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 99% | * 703) = | 0 * \$ 19.13 = | \$0 | 0 | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 76% | * 5) = | 0 * \$ 27.66 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 97% | * 17) = | 0 * \$ 27.66 = | \$0 | 0 | | |
| Carbon, Flat, and Container Glass | Large | (0.5 * 0) * | 76% | * 78) = | 0 * \$ 27.66 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 97% | * 5) = | 0 * \$ 27.66 = | \$0 | 0 | | |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 98% | * 92) = | 0 * \$ 19.97 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 99.70% | * 367) = | 0 * \$ 19.97 = | \$0 | 0 | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| Chromium Catalyst Users | Large | (0.5 * 0) * | 67% | * 1) = | 0 * \$ 31.14 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 97% | * 0) = | 0 * \$ 31.14 = | \$0 | 0 | | |
| Chromium Catalyst Companies | Large | (0.5 * 109) * | 67% | * 1) = | 36 * \$ 31.14 = | \$1,137 | 73 | | |
| | Small | (0.5 * 10) * | 97% | * 1) = | 5 * \$ 31.14 = | \$152 | 10 | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 76% | * 6) = | 0 * \$ 24.56 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 97% | * 0) = | 0 * \$ 24.56 = | \$0 | 0 | | |
| SECTOR 26. Woodworking | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0.5 * 0) * | 94% | * 1) = | 0 * \$ 30.76 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 99% | * 1) = | 0 * \$ 30.76 = | \$0 | 0 | | |
| MARITIME | Large | (0.5 * 0) * | 55% | * 38) = | 0 * \$ 30.76 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 95% | * 34) = | 0 * \$ 30.76 = | \$0 | 0 | | |
| CONSTRUCTION | Large | (0.5 * 0) * | 88% | * 1) = | 0 * \$ 30.76 = | \$0 | 0 | | |
| | Small | (0.5 * 0) * | 99% | * 1) = | 0 * \$ 30.76 = | \$0 | 0 | | |

Table 12

| | | QNFITIME | QNFITMP | 1-%FITBASE | #PLANTS | BURDEN HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|---|-------|---------------|---------|------------|---------|--------------|-------------|----------------|-----------|
| GOVERNMENT | State | (0.5 * 0) * | 88% | * 1 |) = | 0 * | \$ 30.76 = | \$0 | 0 |
| | Local | (0.5 * 0) * | 88% | * 1 |) = | 0 * | \$ 30.76 = | \$0 | 0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 59% | * 48 |) = | 0 * | \$ 26.09 = | \$0 | 0 |
| | Small | (0.5 * 0) * | 96% | * 58 |) = | 0 * | \$ 26.09 = | \$0 | 0 |
| GOVERNMENT | State | (0.5 * 0) * | 59% | * 0 |) = | 0 * | \$ 26.09 = | \$0 | 0 |
| | Local | (0.5 * 0) * | 96% | * 29 |) = | 0 * | \$ 26.09 = | \$0 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | (0.5 * 0) * | 56% | * 18 |) = | 0 * | \$ 26.75 = | \$0 | 0 |
| | Small | (0.5 * 0) * | 95% | * 0 |) = | 0 * | \$ 26.75 = | \$0 | 0 |
| SECTOR 31. Construction | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (0.5 * 0) * | 88% | * 55 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.5 * 0) * | 99% | * 196 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | State | (0.5 * 0) * | 88% | * 16 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Local | (0.5 * 0) * | 88% | * 74 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| HAZARDOUS WASTE-SITE WORK | Large | (0.5 * 0) * | 88% | * 1 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.5 * 0) * | 99% | * 1 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | State | (0.5 * 0) * | 88% | * 1 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| REFRACTORY BRICK RESTORATION | Local | (0.5 * 0) * | 88% | * 1 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Large | (0.5 * 0) * | 88% | * 48 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| | Small | (0.5 * 0) * | 99% | * 148 |) = | 0 * | \$ 30.79 = | \$0 | 0 |
| Total | | | | | | 7,851 | 41 | \$1,289 | 83 |

Table 13

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

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

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

* QNFITCOST = \$34.00 hourly cost for a industrial hygiene technician * # of hours

* QNFITEMP = # Employees requiring annual quantitative fit-test

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

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

| Variables | | QNFITCOST | | QNFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 COST |
|-------------------------------------|-------|-----------|---|----------|----------|------------|--------|---------|--|--------------|
| Sector 1. Electroplating | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 71% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 97% | * 1 |) = \$ | - | | |
| Sector 2. Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (\$68 | 2 | * 0 | * 81% | * 1 |) = \$ | - | | |
| | Small | (\$68 | 2 | * 0 | * 98% | * 1 |) = \$ | - | | |
| MARITIME | Large | (\$0 | 0 | * 0 | * 55% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 95% | * 1 |) = \$ | - | | |
| CONSTRUCTION | Large | (\$0 | 0 | * 0 | * 88% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99% | * 1 |) = \$ | - | | |
| GOVERNMENT | State | (\$0 | 0 | * 0 | * 88% | * 1 |) = \$ | - | | |
| | Local | (\$0 | 0 | * 0 | * 99% | * 1 |) = \$ | - | | |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (\$68 | 2 | * 0 | * 81% | * 1 |) = \$ | - | | |
| | Small | (\$68 | 2 | * 0 | * 98% | * 1 |) = \$ | - | | |
| MARITIME | Large | (\$0 | 0 | * 0 | * 81% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 98% | * 1 |) = \$ | - | | |
| CONSTRUCTION | Large | (\$0 | 0 | * 0 | * 81% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 98% | * 1 |) = \$ | - | | |
| SECTOR 3. PAINTING | | | | | | | | | | |
| GENERAL INDUSTRY AEROSPACE | Large | (\$0 | 0 | * 0 | * 81% | * 50 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 98% | * 63 |) = \$ | - | | |
| GENERAL INDUSTRY AUTOBODY | Large | (\$0 | 0 | * 0 | * 81% | * 331 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 98% | * 1,458 |) = \$ | - | | |
| COIL COATING | Large | (\$0 | 0 | * 0 | * 81% | * 101 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 98% | * 18 |) = \$ | - | | |
| MARITIME | Large | (\$0 | 0 | * 0 | * 55.00% | * 294 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 95% | * 508 |) = \$ | - | | |
| CONSTRUCTION | Large | (\$0 | 0 | * 0 | * 0% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 0% | * 1 |) = \$ | - | | |

Table 13

| Variables | | QNFITCOST | | QNFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 COST |
|---|-------|-----------|-----|----------|-----|------------|-----|---------|---|--------------|
| GOVERNMENT | State | (\$0 | 0 * | 0 * | 0% | * | 1 |) = \$ | - | |
| | Local | (\$0 | 0 * | 0 * | 0% | * | 1 |) = \$ | - | |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 2 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 0 |) = \$ | - | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 2 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 1 |) = \$ | - | |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 3 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 0 |) = \$ | - | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 5 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 0 |) = \$ | - | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 87 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 137 |) = \$ | - | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 3 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 10 |) = \$ | - | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 54% | * | 1 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 1 |) = \$ | - | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 37% | * | 4 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 93% | * | 3 |) = \$ | - | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 56% | * | 1 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 0 |) = \$ | - | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 56% | * | 37 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 12 |) = \$ | - | |
| CARBON STEEL | Large | (\$0 | 0 * | 0 * | 56% | * | 112 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 35 |) = \$ | - | |
| 14b. RESHAPING INDUSTRY | | | | | | | | | | |
| RESHAPING | Large | (\$0 | 0 * | 0 * | 56% | * | 37 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 34 |) = \$ | - | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | (\$0 | 0 * | 0 * | 56% | * | 178 |) = \$ | - | |
| | Small | (\$0 | 0 * | 0 * | 95% | * | 130 |) = \$ | - | |

Table 13

| Variables | | QNFITCOST | | QNFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 COST |
|---------------------------------------|-------|-----------|---|----------|----------|------------|--------|---------|--|--------------|
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 37% | * 3 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 93% | * 1 |) = \$ | - | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 37% | * 0 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 93% | * 5 |) = \$ | - | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 92% | * 207 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99% | * 1,561 |) = \$ | - | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 89% | * 347 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99% | * 703 |) = \$ | - | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 76% | * 5 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 97% | * 17 |) = \$ | - | | |
| Carbon, Flat, and Container Glass | Large | (\$0 | 0 | * 0 | * 76% | * 78 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 97% | * 5 |) = \$ | - | | |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 98% | * 92 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99.70% | * 367 |) = \$ | - | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| Chromium Catalyst Users | Large | (\$0 | 0 | * 0 | * 67% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 97% | * 0 |) = \$ | - | | |
| Chromium Catalyst Companies | Large | (\$123 | 4 | * 30 | * 100% | * 1 |) = \$ | 3,676 | | |
| | Small | (\$11 | 0 | * 30 | * 100% | * 1 |) = \$ | 340 | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 76% | * 6 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 97% | * 0 |) = \$ | - | | |
| SECTOR 26. Woodworking | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (\$0 | 0 | * 0 | * 94% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99% | * 1 |) = \$ | - | | |
| MARITIME | Large | (\$0 | 0 | * 0 | * 55% | * 38 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 95% | * 34 |) = \$ | - | | |
| CONSTRUCTION | Large | (\$0 | 0 | * 0 | * 88% | * 1 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 99% | * 1 |) = \$ | - | | |
| | State | (\$0 | 0 | * 0 | 88% | 1 |) = \$ | - | | |
| | Local | (\$0 | 0 | * 0 | 88% | 1 |) = \$ | - | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * 0 | * 59% | * 48 |) = \$ | - | | |
| | Small | (\$0 | 0 | * 0 | * 96% | * 58 |) = \$ | - | | |

Table 13

| Variables | | QNFITCOST | | QNFITEMP | | 1-%FITBASE | | #PLANTS | | Item 13 COST |
|--|-------|-----------|---|----------|---|------------|---|--------------|-----------|--------------|
| GOVERNMENT | State | (\$0 | 0 | * | 0 | 59% | | 0 |) = \$ | - |
| | Local | (\$0 | 0 | * | 0 | 96% | | 29 |) = \$ | - |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | |
| ALL | Large | (\$0 | 0 | * | 0 | * 56% | * | 18 |) = \$ | - |
| | Small | (\$0 | 0 | * | 0 | * 95% | * | 0 |) = \$ | - |
| SECTOR 31. Construction | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (\$0 | 0 | * | 0 | * 88% | * | 55 |) = \$ | - |
| | Small | (\$0 | 0 | * | 0 | * 99% | * | 196 |) = \$ | - |
| | State | (\$0 | 0 | * | 0 | * 88% | * | 16 |) = \$ | - |
| | Local | (\$0 | 0 | * | 0 | * 88% | * | 74 |) = \$ | - |
| HAZARDOUS WASTE-SITE WORK | Large | (\$0 | 0 | * | 0 | * 88% | * | 1 |) = \$ | - |
| | Small | (\$0 | 0 | * | 0 | * 99% | * | 1 |) = \$ | - |
| | State | (\$0 | 0 | * | 0 | * 88% | * | 1 |) = \$ | - |
| | Local | (\$0 | 0 | * | 0 | * 88% | * | 1 |) = \$ | - |
| REFRACTORY BRICK RESTORATION AND MAINTENANCE | Large | (\$0 | 0 | * | 0 | * 88% | * | 48 |) = \$ | - |
| | Small | (\$0 | 0 | * | 0 | * 99% | * | 148 |) = \$ | - |
| Total | | | | | | | | 7,851 | \$ | 4,016 |

Table 14

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

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

Hours = (EMPAL * MEDHISTTIME * 1-%FITBASE * #PLANTS)
 Cost = Hours x NONSUPEWAGE

Variables:

- * EMPAL = Number of employees who wear respirators who are at or above the AL and at or below the PEL in the model plant
- * MEDHISTTIME = Employee time to complete medical history questionnaire
- * 1-%FITBASE = Percent of plants not conducting annual respirator fit-test
- * #PLANTS = Number of plants represented by the model output
- * NONSUPEWAGE = Non-Supervisory wage rate

| Variables | | EMPAL | MEDHISTTIME | 1-%FITBASE | #PLANTS | Hours | NONSUPEWAGE | Item 12 COST | RESPONSES |
|-------------------------------------|-------|----------------------------|-------------|------------|--------------|-----------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | |
| ALL | Large | (5,447 * 0.17 * 71% * 1) | = | 657.44 | * \$ 25.49 = | \$ 16,760 | | 3,867 | |
| | Small | (1,188 * 0.17 * 97% * 1) | = | 195.82 | * \$ 25.49 = | \$ 4,992 | | 1,152 | |
| Sector 2. Welding | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * 0.17 * 81% * 1) | = | 0.00 | * \$ 25.10 = | 0 | | 0 | |
| | Small | (0 * 0.17 * 98% * 1) | = | 0.00 | * \$ 25.10 = | 0 | | 0 | |
| MARITIME | Large | (2,345 * 0.17 * 55% * 1) | = | 219.30 | * \$ 25.10 = | \$ 5,505 | | 1,290 | |
| | Small | (55 * 0.17 * 95% * 1) | = | 8.96 | * \$ 25.10 = | \$ 225 | | 53 | |
| CONSTRUCTION | Large | (3,247 * 0.17 * 88% * 1) | = | 485.80 | * \$ 25.10 = | \$ 12,194 | | 2,858 | |
| | Small | (2,511 * 0.17 * 99% * 1) | = | 422.58 | * \$ 25.10 = | \$ 10,607 | | 2,486 | |
| GOVERNMENT | State | (15 * 0.17 * 88% * 1) | = | 2.18 | * \$ 25.10 = | \$ 55 | | 13 | |
| | Local | (74 * 0.17 * 99% * 1) | = | 12.44 | * \$ 25.10 = | \$ 312 | | 73 | |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * 0.17 * 55% * 1) | = | 0.00 | * \$ 25.10 = | 0 | | 0 | |
| | Small | (0 * 0.17 * 95% * 1) | = | 0.00 | * \$ 25.10 = | 0 | | 0 | |
| MARITIME | Large | (17 * 0.17 * 88% * 1) | = | 2.47 | * \$ 25.10 = | \$ 62 | | 15 | |
| | Small | (0 * 0.17 * 99% * 1) | = | 0.00 | * \$ 25.10 = | 0 | | 0 | |
| CONSTRUCTION | Large | (662 * 0.17 * 88% * 1) | = | 99.11 | * \$ 25.10 = | \$ 2,488 | | 583 | |
| | Small | (533 * 0.17 * 99% * 1) | = | 89.72 | * \$ 25.10 = | \$ 2,252 | | 528 | |
| SECTOR 3. PAINTING | | | | | | | | | |
| GENERAL INDUSTRY AEROSPACE | Large | (32 * 0.17 * 81% * 50) | = | 220.21 | * \$ 31.68 = | \$ 6,976 | | 1,295 | |
| | Small | (0 * 0.17 * 98% * 63) | = | 0.00 | * \$ 31.68 = | 0 | | 0 | |
| GENERAL INDUSTRY AUTOBODY REPAIR | Large | (1 * 0.17 * 81% * 331) | = | 41.95 | * \$ 31.68 = | \$ 1,329 | | 247 | |
| | Small | (0 * 0.17 * 98% * 1,458) | = | 0.00 | * \$ 31.68 = | 0 | | 0 | |
| COIL COATING | Large | (2 * 0.17 * 81% * 101) | = | 25.63 | * \$ 31.68 = | \$ 812 | | 151 | |
| | Small | (1 * 0.17 * 98% * 18) | = | 2.82 | * \$ 31.68 = | \$ 89 | | 17 | |

Table 14

| Variables | | EMPAL | MEDHISTTIME | 1-%FITBASE | #PLANTS | | Hours | NONSUPEWAGE | Item 12 COST | RESPONSES |
|---|-------|-------------------------------|------------------------------|------------|---------|--|-------|-------------|--------------|-----------|
| | | | | | | | | | | |
| MARITIME | Large | (1 * 0.17 * 55.00% * 294) = | 25.16 * \$ 31.68 = \$ 797 | 148 | | | | | | |
| | Small | (1 * 0.17 * 95% * 508) = | 82.06 * \$ 31.68 = 2599.584 | 483 | | | | | | |
| CONSTRUCTION | Large | (471 * 0.17 * 0% * 1) = | 0.00 * \$ 31.68 = 0 | 0 | | | | | | |
| | Small | (593 * 0.17 * 0% * 1) = | 0.00 * \$ 31.68 = 0 | 0 | | | | | | |
| GOVERNMENT | State | (43 * 0.17 * 0% * 1) = | 0.00 * \$ 31.68 = 0 | 0 | | | | | | |
| | Local | (186 * 0.17 * 0% * 1) = | 0.00 * \$ 31.68 = 0 | 0 | | | | | | |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (7 * 0.17 * 37% * 2) = | 0.95 * \$ 37.06 = \$ 35 | 6 | | | | | | |
| | Small | (0 * 0.17 * 93% * 0) = | 0.00 * \$ 37.06 = 0 | 0 | | | | | | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (6 * 0.17 * 37% * 2) = | 0.00 * \$ 36.12 = 0 | 5 | | | | | | |
| | Small | (1 * 0.17 * 93% * 1) = | 0.00 * \$ 36.12 = 0 | 1 | | | | | | |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (2 * 0.17 * 37% * 3) = | 0.00 * \$ 30.60 = 0 | 2 | | | | | | |
| | Small | (0 * 0.17 * 93% * 0) = | 0.00 * \$ 30.60 = 0 | 0 | | | | | | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (12 * 0.17 * 37% * 5) = | 4.09 * \$ 37.06 = \$ 152 | 24 | | | | | | |
| | Small | (0 * 0.17 * 93% * 0) = | 0.00 * \$ 37.06 = 0 | 0 | | | | | | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (1 * 0.17 * 37% * 87) = | 5.72 * \$ 27.60 = \$ 158 | 34 | | | | | | |
| | Small | (0 * 0.17 * 93% * 137) = | 0.00 * \$ 27.60 = 0 | 0 | | | | | | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (12 * 0.17 * 37% * 3) = | 2.28 * \$ 27.65 = \$ 63 | 13 | | | | | | |
| | Small | (3 * 0.17 * 93% * 10) = | 4.78 * \$ 27.65 = \$ 132 | 28 | | | | | | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (361 * 0.17 * 54% * 1) = | 33.14 * \$ 30.64 = \$ 1,015 | 195 | | | | | | |
| | Small | (36 * 0.17 * 95% * 1) = | 5.89 * \$ 30.64 = \$ 180 | 35 | | | | | | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (2 * 0.17 * 37% * 4) = | 0.61 * \$ 27.50 = \$ 17 | 4 | | | | | | |
| | Small | (1 * 0.17 * 93% * 3) = | 0.34 * \$ 27.50 = \$ 9 | 2 | | | | | | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (8 * 0.17 * 56% * 1) = | 0.76 * \$ 37.17 = \$ 28 | 4 | | | | | | |
| | Small | (0 * 0.17 * 95% * 0) = | 0.00 * \$ 37.17 = 0 | 0 | | | | | | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| ALL | Large | (30 * 0.17 * 56% * 37) = | 104.76 * \$ 37.17 = \$ 3,894 | 616 | | | | | | |
| | Small | (1 * 0.17 * 95% * 12) = | 2.71 * \$ 37.17 = \$ 101 | 16 | | | | | | |
| CARBON STEEL | Large | (1 * 0.17 * 56% * 112) = | 7.48 * \$ 37.17 = \$ 278 | 44 | | | | | | |
| | Small | (1 * 0.17 * 95% * 35) = | 7.98 * \$ 37.17 = \$ 297 | 47 | | | | | | |
| 14b. RESHAPING | | | | | | | | | | |
| RESHAPING | Large | (3 * 0.17 * 56% * 37) = | 9.79 * \$ 37.17 = \$ 364 | 58 | | | | | | |
| | Small | (1 * 0.17 * 95% * 34) = | 3.91 * \$ 37.17 = \$ 145 | 23 | | | | | | |

Table 14

| Variables | | EMPAL | MEDHISTTIME | 1-%FITBASE | #PLANTS | Hours | NONSUPEWAGE | Item 12 COST | RESPONSES |
|---------------------------------------|-------|-----------------------------|-------------|------------------------------|---------|-------|-------------|--------------|-----------|
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | (19 * 0.17 * 56% * 178) | = | 320.71 * \$ 27.12 = \$ 8,698 | 1,887 | | | | |
| | Small | (5 * 0.17 * 95% * 130) | = | 94.21 * \$ 27.12 = \$ 2,555 | 554 | | | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | (32 * 0.17 * 37% * 3) | = | 5.90 * \$ 36.12 = \$ 213 | 35 | | | | |
| | Small | (7 * 0.17 * 93% * 1) | = | 1.08 * \$ 36.12 = \$ 39 | 6 | | | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | (0 * 0.17 * 37% * 0) | = | 0.00 * \$ 39.76 = 0 | 0 | | | | |
| | Small | (1 * 0.17 * 93% * 5) | = | 0.86 * \$ 39.76 = \$ 34 | 5 | | | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (0 * 0.17 * 92% * 207) | = | 0.00 * \$ 28.67 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 99% * 1,561) | = | 0.00 * \$ 28.67 = 0 | 0 | | | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (0 * 0.17 * 89% * 347) | = | 0.00 * \$ 19.13 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 99% * 703) | = | 0.00 * \$ 19.13 = 0 | 0 | | | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | (1 * 0.17 * 76% * 5) | = | 0.63 * \$ 27.66 = \$ 18 | 4 | | | | |
| | Small | (0 * 0.17 * 97% * 17) | = | 0.00 * \$ 27.66 = 0 | 0 | | | | |
| FIBER, FLAT, CONTAINER GLASS | Large | (6 * 0.17 * 76% * 78) | = | 63.55 * \$ 27.66 = \$ 1,758 | 374 | | | | |
| | Small | (1 * 0.17 * 97% * 5) | = | 0.67 * \$ 27.66 = \$ 19 | 4 | | | | |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (0 * 0.17 * 98% * 92) | = | 0.00 * \$ 19.97 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 99.70% * 367) | = | 0.00 * \$ 19.97 = 0 | 0 | | | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| ALL | Large | (1 * 0.17 * 67% * 1) | = | 0.11 * \$ 31.14 = \$ 4 | 1 | | | | |
| | Small | (0 * 0.17 * 97% * 0) | = | 0.00 * \$ 31.14 = 0 | 0 | | | | |
| Chromium Catalyst Companies | Large | (109 * 0.17 * 0% * 1) | = | 0.00 * \$ 31.14 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 0% * 1) | = | 0.00 * \$ 31.14 = 0 | 0 | | | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (0 * 0.17 * 76% * 6) | = | 0.00 * \$ 24.56 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 97% * 0) | = | 0.00 * \$ 24.56 = 0 | 0 | | | | |
| SECTOR 26. Woodworking | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * 0.17 * 94% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 99% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| MARITIME | Large | (0 * 0.17 * 55% * 38) | = | * \$ 30.76 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 95% * 34) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| CONSTRUCTION | Large | (0 * 0.17 * 88% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| | Small | (0 * 0.17 * 99% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| GOVERNMENT | State | (0 * 0.17 * 88% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |
| | Local | (0 * 0.17 * 88% * 1) | = | 0.00 * \$ 30.76 = 0 | 0 | | | | |

Table 14

| Variables | | EMPAL | MEDHISTTIME | 1-%FITBASE | #PLANTS | Hours | NONSUPEWAGE | Item 12 COST | RESPONSES | | |
|---|-------|-------|-------------|------------|--------------|-------|--------------|------------------|---------------|---|---|
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | |
| ALL | Large | (| 0 * | 0.17 * | 59% * | 48) | = | 0.00 * | \$ 26.09 = | 0 | 0 |
| | Small | (| 0 * | 0.17 * | 96% * | 58) | = | 0.00 * | \$ 26.09 = | 0 | 0 |
| GOVERNMENT | State | (| 0 * | 0.17 * | 59% * | 0) | = | 0.00 * | \$ 26.09 | 0 | 0 |
| | Local | (| 0 * | 0.17 * | 96% * | 29) | = | 0.00 * | \$ 26.09 | 0 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | |
| ALL | Large | (| 0 * | 0.17 * | 56% * | 18) | = | 0.00 * | \$ 26.75 = | 0 | 0 |
| | Small | (| 0 * | 0.17 * | 95% * | 0) | = | 0.00 * | \$ 26.75 = | 0 | 0 |
| SECTOR 31. Construction | | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (| 0 * | 0.17 * | 88% * | 55) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | Small | (| 0 * | 0.17 * | 99% * | 196) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | State | (| 0 * | 0.17 * | 88% * | 16) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | Local | (| 0 * | 0.17 * | 88% * | 74) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| HAZARDOUS WASTE-SITE WORK | Large | (| 0 * | 0.17 * | 88% * | 1) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | Small | (| 0 * | 0.17 * | 99% * | 1) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | State | (| 0 * | 0.17 * | 88% * | 1) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| REFRACTORY BRICK RESTORATION | Local | (| 0 * | 0.17 * | 88% * | 1) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | Large | (| 0 * | 0.17 * | 88% * | 48) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| | Small | (| 0 * | 0.17 * | 99% * | 148) | = | 0.00 * | \$ 30.79 = | 0 | 0 |
| Total | | | | | 7,851 | | 3,277 | \$ 88,261 | 19,281 | | |

Table 15

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

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

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

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

* MEDHISTCOST = Cost of medical history questionnaire to be reviewed by a PLHCP.

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

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

| Variables | | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | Item 13 COST |
|-------------------------------------|-------|--------------|-------------|-------------|--------------|--------------|
| Sector 1. Electroplating | | | | | | |
| ALL | Large | (5,447 * \$ | 40.31 * \$ | 71% * \$ | 1) = \$ | 155,873.17 |
| | Small | (1,188 * \$ | 40.31 * \$ | 97% * \$ | 1) = \$ | 46,428.29 |
| Sector 2. Welding | | | | | | |
| GENERAL INDUSTRY | Large | (0 * \$ | 40.31 * \$ | 81% * \$ | 1) = \$ | - |
| | Small | (0 * \$ | 40.31 * \$ | 98% * \$ | 1) = \$ | - |
| MARITIME | Large | (2,345 * \$ | 40.31 * \$ | 55% * \$ | 1) = \$ | 51,995.14 |
| | Small | (55 * \$ | 40.31 * \$ | 95% * \$ | 1) = \$ | 2,123.25 |
| CONSTRUCTION | Large | (3,247 * \$ | 40.31 * \$ | 88% * \$ | 1) = \$ | 115,178.61 |
| | Small | (2,511 * \$ | 40.31 * \$ | 99% * \$ | 1) = \$ | 100,190.38 |
| GOVERNMENT | State | (15 * \$ | 40.31 * \$ | 88% * \$ | 1) = \$ | 517.58 |
| | Local | (74 * \$ | 40.31 * \$ | 99% * \$ | 1) = \$ | 2,950.20 |
| Sector 2. Mild Steel Welding | | | | | | |
| GENERAL INDUSTRY | Large | (0 * \$ | 40.31 * \$ | 81% * \$ | 1) = \$ | - |
| | Small | (0 * \$ | 40.31 * \$ | 98% * \$ | 1) = \$ | - |
| MARITIME | Large | (17 * \$ | 40.31 * \$ | 55% * \$ | 1) = \$ | 366.62 |
| | Small | (0 * \$ | 40.31 * \$ | 95% * \$ | 1) = \$ | - |
| CONSTRUCTION | Large | (662 * \$ | 40.31 * \$ | 88% * \$ | 1) = \$ | 23,498.09 |
| | Small | (533 * \$ | 40.31 * \$ | 99% * \$ | 1) = \$ | 21,272.50 |
| SECTOR 3. PAINTING | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | (32 * \$ | 40.31 * \$ | 81% * \$ | 50) = \$ | 52,210.56 |
| | Small | (0 * \$ | 40.31 * \$ | 98% * \$ | 63) = \$ | - |
| GENERAL INDUSTRY (AUTOBODY REPAIR) | Large | (1 * \$ | 40.31 * \$ | 81% * \$ | 331) = \$ | 9,944.87 |
| | Small | (0 * \$ | 40.31 * \$ | 98% * \$ | 1,458) = \$ | - |
| GENERAL INDUSTRY (COIL COATING) | Large | (2 * \$ | 40.31 * \$ | 81% * \$ | 101) = \$ | 6,077.42 |
| | Small | (1 * \$ | 40.31 * \$ | 98% * \$ | 18) = \$ | 668.45 |
| MARITIME | Large | (1 * \$ | 40.31 * \$ | 55.00% * \$ | 294) = \$ | 6,514.91 |
| | Small | (1 \$ | 40.31 * \$ | 95% * \$ | 508) = \$ | 19,456.17 |

Table 15

| Variables | | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | | | | Item 13 COST |
|---|-------|------------|-------------|------------|----------|--------|--|--|--------------|
| | | | | | | | | | |
| CONSTRUCTION | Large | (471 * \$ | 40.31 * \$ | 0% * \$ | 1 * \$ |) = \$ | | | - |
| | Small | (593 * \$ | 40.31 * \$ | 0% * \$ | 1 * \$ |) = \$ | | | - |
| GOVERNMENT | State | (43 * \$ | 40.31 * \$ | 0% * \$ | 1 * \$ |) = \$ | | | - |
| | Local | (186 * \$ | 40.31 * \$ | 0% * \$ | 1 * \$ |) = \$ | | | - |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | (7 * \$ | 40.31 * \$ | 37% * \$ | 2 * \$ |) = \$ | | | 226.19 |
| | Small | (0 * \$ | 40.31 * \$ | 93% * \$ | 0 * \$ |) = \$ | | | - |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| ALL | Large | (6 * \$ | 40.31 * \$ | 37% * \$ | 2 * \$ |) = \$ | | | 184.15 |
| | Small | (1 * \$ | 40.31 * \$ | 93% * \$ | 1 * \$ |) = \$ | | | 38.57 |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | (2 * \$ | 40.31 * \$ | 37% * \$ | 3 * \$ |) = \$ | | | 64.99 |
| | Small | (0 * \$ | 40.31 * \$ | 93% * \$ | 0 * \$ |) = \$ | | | - |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 40.31 * \$ | 37% * \$ | 5 * \$ |) = \$ | | | 969.38 |
| | Small | (0 * \$ | 40.31 * \$ | 93% * \$ | 0 * \$ |) = \$ | | | - |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | (1 * \$ | 40.31 * \$ | 37% * \$ | 87 * \$ |) = \$ | | | 1,357.14 |
| | Small | (0 * \$ | 40.31 * \$ | 93% * \$ | 137 * \$ |) = \$ | | | - |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | (12 * \$ | 40.31 * \$ | 37% * \$ | 3 * \$ |) = \$ | | | 541.26 |
| | Small | (3 * \$ | 40.31 * \$ | 93% * \$ | 10 * \$ |) = \$ | | | 1,133.73 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | (361 * \$ | 40.31 * \$ | 54% * \$ | 1 * \$ |) = \$ | | | 7,856.30 |
| | Small | (36 * \$ | 40.31 * \$ | 95% * \$ | 1 * \$ |) = \$ | | | 1,396.45 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | (2 * \$ | 40.31 * \$ | 37% * \$ | 4 * \$ |) = \$ | | | 145.53 |
| | Small | (1 * \$ | 40.31 * \$ | 93% * \$ | 3 * \$ |) = \$ | | | 81.29 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | (8 * \$ | 40.31 * \$ | 56% * \$ | 1 * \$ |) = \$ | | | 180.57 |
| | Small | (0 * \$ | 40.31 * \$ | 95% * \$ | 0 * \$ |) = \$ | | | - |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| Alloy and Stainless Steel | Large | (30 * \$ | 40.31 * \$ | 56% * \$ | 37 * \$ |) = \$ | | | 24,838.26 |
| | Small | (1 * \$ | 40.31 * \$ | 95% * \$ | 12 * \$ |) = \$ | | | 643.59 |
| Carbon Steel | Large | (1 * \$ | 40.31 * \$ | 56% * \$ | 112 * \$ |) = \$ | | | 1,774.16 |
| | Small | (1 * \$ | 40.31 * \$ | 95% * \$ | 35 * \$ |) = \$ | | | 1,892.92 |
| 14b. RESHAPING INDUSTRY | | | | | | | | | |
| Reshaping Industry | Large | (3 * \$ | 40.31 * \$ | 56% * \$ | 37 * \$ |) = \$ | | | 2,320.92 |
| | Small | (1 * \$ | 40.31 * \$ | 95% * \$ | 34 * \$ |) = \$ | | | 927.53 |

Table 15

| Variables | | | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | | | Item 13 COST |
|---------------------------------------|-------|---|-------|-------------|------------|---------|-----|----|--------------|
| | | | | | | | | | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | (| 19 * | \$ 40.31 * | 56% * | 178 |) = | \$ | 76,038.56 |
| | Small | (| 5 * | \$ 40.31 * | 95% * | 130 |) = | \$ | 22,336.62 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | (| 32 * | \$ 40.31 * | 37% * | 3 |) = | \$ | 1,399.31 |
| | Small | (| 7 * | \$ 40.31 * | 93% * | 1 |) = | \$ | 256.46 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | (| 0 * | \$ 40.31 * | 37% * | 0 |) = | \$ | - |
| | Small | (| 1 * | \$ 40.31 * | 93% * | 5 |) = | \$ | 203.05 |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (| 0 * | \$ 40.31 * | 92% * | 207 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 99% * | 1,561 |) = | \$ | - |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (| 0 * | \$ 40.31 * | 89% * | 347 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 99% * | 703 |) = | \$ | - |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | (| 1 * | \$ 40.31 * | 76% * | 5 |) = | \$ | 150.18 |
| | Small | (| 0 * | \$ 40.31 * | 97% * | 17 |) = | \$ | - |
| FIBER, FLAT AND CONTAINER GLASS | Large | (| 6 * | \$ 40.31 * | 76% * | 78 |) = | \$ | 15,068.24 |
| | Small | (| 1 * | \$ 40.31 * | 97% * | 5 |) = | \$ | 159.73 |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (| 0 * | \$ 40.31 * | 98% * | 92 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 99.70% * | 367 |) = | \$ | - |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| ALL | Large | (| 1 * | \$ 40.31 * | 67% * | 1 |) = | \$ | 27.24 |
| | Small | (| 0 * | \$ 40.31 * | 97% * | 0 |) = | \$ | - |
| Chromium Catalyst Companies | Large | (| 109 | \$ 40.31 * | 0% * | 1 |) = | \$ | - |
| | Small | (| 0 | \$ 40.31 * | 0% * | 1 |) = | \$ | - |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (| 0 * | \$ 40.31 * | 76% * | 6 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 97% * | 0 |) = | \$ | - |
| SECTOR 26. Woodworking | | | | | | | | | |
| GENERAL INDUSTRY | Large | (| 0 * | \$ 40.31 * | 94% * | 1 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 99% * | 1 |) = | \$ | - |
| MARITIME | Large | (| 0 * | \$ 40.31 * | 55% * | 38 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 95% * | 34 |) = | \$ | - |
| CONSTRUCTION | Large | (| 0 * | \$ 40.31 * | 88% * | 1 |) = | \$ | - |
| | Small | (| 0 * | \$ 40.31 * | 99% * | 1 |) = | \$ | - |

Table 15

| Variables | | EMPAL | MEDHISTCOST | 1-%FITBASE | #PLANTS | | Item 13 COST |
|--|-------|----------|-------------|------------|--------------|-----------|----------------|
| Government | State | (0 * \$ | 40.31 * | 88% * | 1) = \$ | - | - |
| | Local | (0 * \$ | 40.31 * | 88% * | 1) = \$ | - | - |
| SECTOR 27. Solid Waste Incineration | | | | | | | |
| ALL | Large | (0 \$ | 40.31 | 59% | 48 | \$ | - |
| | Small | (0 * \$ | 40.31 * | 96% * | 58) = \$ | - | - |
| Government | State | (0 \$ | 40.31 | 59% | 0 | \$ | - |
| | Local | (0 \$ | 40.31 | 96% | 29 | \$ | - |
| SECTOR 30. Superalloy Producers and Users | | | | | | | |
| ALL | Large | (0 * \$ | 40.31 * | 56% * | 18) = \$ | - | - |
| | Small | (0 * \$ | 40.31 * | 95% * | 0) = \$ | - | - |
| SECTOR 31. Construction | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (0 * \$ | 40.31 * | 88% * | 55) = \$ | - | - |
| | Small | (0 * \$ | 40.31 * | 99% * | 196) = \$ | - | - |
| | State | (0 * \$ | 40.31 * | 88% * | 16) = \$ | - | - |
| | Local | (0 * \$ | 40.31 * | 88% * | 74) = \$ | - | - |
| HAZARDOUS WASTE-SITE WORK | Large | (0 * \$ | 40.31 * | 88% * | 1) = \$ | - | - |
| | Small | (0 * \$ | 40.31 * | 99% * | 1) = \$ | - | - |
| | State | (0 * \$ | 40.31 * | 88% * | 1) = \$ | - | - |
| | Local | (0 * \$ | 40.31 * | 88% * | 1) = \$ | - | - |
| REFRACTORY BRICK RESTORATION | Large | (0 * \$ | 40.31 * | 88% * | 48) = \$ | - | - |
| | Small | (0 * \$ | 40.31 * | 99% * | 148) = \$ | - | - |
| Total | | | | | 7,851 | \$ | 777,479 |

Table 16

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

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

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

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

| | | EMPAL | RESPEXAMTIME | %EMPMEDXAM | 1-%FITBASE | #PLANTS | HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|-------------------------------------|-------|-----------|--------------|------------|------------|---------|-----------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | | |
| ALL | Large | (5,447 * | 3 * | 23% * | 71% * | 1 = | 2668.42 * | \$ 25.49 | \$ 68,025.07 | 889 |
| | Small | (1,188 * | 3 * | 23% * | 97% * | 1 = | 794.81 * | \$ 21.43 | \$ 17,032.84 | 265 |
| Sector 2. Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * | 3 * | 23% * | 81% * | 1 = | 0.00 * | \$ 21.10 | \$ - | 0 |
| | Small | (0 * | 3 * | 23% * | 98% * | 1 = | 0.00 * | \$ 21.10 | \$ - | 0 |
| MARITIME | Large | (2,345 * | 3 * | 23% * | 55% * | 1 = | 890.11 * | \$ 21.10 | \$ 18,781.38 | 297 |
| | Small | (55 * | 3 * | 23% * | 95% * | 1 = | 36.35 * | \$ 21.10 | \$ 766.95 | 12 |
| CONSTRUCTION | Large | (3,247 * | 3 * | 23% * | 88% * | 1 = | 1971.76 * | \$ 21.10 | \$ 41,604.14 | 657 |
| | Small | (2,511 * | 3 * | 23% * | 99% * | 1 = | 1715.17 * | \$ 21.10 | \$ 36,190.18 | 572 |
| GOVERNMENT | State | (15 * | 3 * | 23% * | 88% * | 1 = | 8.86 * | \$ 21.10 | \$ 186.96 | 3 |
| | Local | (74 * | 3 * | 23% * | 99% * | 1 = | 50.50 * | \$ 21.10 | \$ 1,065.65 | 17 |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * | 3 * | 23% * | 81% * | 1 = | 0.00 * | \$ 21.10 | \$ - | 0 |
| | Small | (0 * | 3 * | 23% * | 98% * | 1 = | 0.00 * | \$ 21.10 | \$ - | 0 |
| MARITIME | Large | (17 * | 3 * | 23% * | 55% * | 1 = | 6.28 * | \$ 21.10 | \$ 132.43 | 2 |
| | Small | (0 * | 3 * | 23% * | 95% * | 1 = | 0.00 * | \$ 21.10 | \$ - | 0 |
| CONSTRUCTION | Large | (662 * | 3 * | 23% * | 88% * | 1 = | 402.27 * | \$ 21.10 | \$ 8,487.84 | 134 |
| | Small | (533 * | 3 * | 23% * | 99% * | 1 = | 364.17 * | \$ 21.10 | \$ 7,683.93 | 121 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| GENERAL INDUSTRY (AEROSPACE) | Large | (32 * | 3 * | 23% * | 81% * | 50 = | 893.80 * | 26.63 | \$ 23,801.91 | 298 |
| | Small | (0 * | 3 * | 23% * | 98% * | 63 = | 0.00 * | 26.63 | \$ - | 0 |
| GENERAL INDUSTRY (AUTOBODY REPAIR) | Large | (1 * | 3 * | 23% * | 81% * | 331 = | 170.25 * | 26.63 | \$ 4,533.70 | 57 |
| | Small | (0 * | 3 * | 23% * | 98% * | 1,458 = | 0.00 * | 26.63 | \$ - | 0 |
| GENERAL INDUSTRY (COIL COATING) | Large | (2 * | 3 * | 23% * | 81% * | 101 = | 104.04 * | 26.63 | \$ 2,770.59 | 35 |
| | Small | (1 * | 3 * | 23% * | 98% * | 18 = | 11.44 * | 26.63 | \$ 304.73 | 4 |

Table 16

| | | EMPAL | RESPEXAMTIME | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|---|-------|---|--------------|-------------|------------|---------|-------|-------------|--------------|-----------|
| MARITIME | Large | (1 * 3 * 23% * 55.00% * 294 = 102.11 * 26.63 \$ 2,719.17 | | | | | | | | 34 |
| | Small | (1 * 3 * 23% * 95% * 508 = 333.07 * 26.63 \$ 8,869.74 | | | | | | | | 111 |
| CONSTRUCTION | Large | (471 * 3 * 23% * 0% * 1 = 0.00 * 26.63 \$ - | | | | | | | | 0 |
| | Small | (593 * 3 * 23% * 0% * 1 = 0.00 * 26.63 \$ - | | | | | | | | 0 |
| GOVERNMENT | State | (43 3 23% 0% 1 0.00 26.63 \$ - | | | | | | | | 0 |
| | Local | (186 3 23% 0% 1 0.00 26.63 \$ - | | | | | | | | 0 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (7 * 3 * 23% * 37% * 2 = 3.87 * 31.15 \$ 120.62 | | | | | | | | 1 |
| | Small | (0 * 3 * 23% * 93% * 0 = 0.00 * 31.15 \$ - | | | | | | | | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (6 * 3 * 23% * 37% * 2 = 3.15 * 30.36 \$ 95.71 | | | | | | | | 1 |
| | Small | (1 * 3 * 23% * 93% * 1 = 0.66 * 30.36 \$ 20.05 | | | | | | | | 0 |
| SECTOR 6. CCA Producers | | | | | | | | | | |
| ALL | Large | (2 * 3 * 23% * 37% * 3 = 1.11 * 25.72 \$ 28.62 | | | | | | | | 0 |
| | Small | (0 * 3 * 23% * 93% * 0 = 0.00 * 25.72 \$ - | | | | | | | | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | |
| ALL | Large | (12 * 3 * 23% * 37% * 5 = 16.60 * 31.15 \$ 516.94 | | | | | | | | 6 |
| | Small | (0 * 3 * 23% * 93% * 0 = 0.00 * 31.15 \$ - | | | | | | | | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | |
| ALL | Large | (1 * 3 * 23% * 37% * 87 = 23.23 * 23.20 \$ 539.01 | | | | | | | | 8 |
| | Small | (0 * 3 * 23% * 93% * 137 = 0.00 * 23.20 \$ - | | | | | | | | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | |
| ALL | Large | (12 * 3 * 23% * 37% * 3 = 9.27 * 23.24 \$ 215.34 | | | | | | | | 3 |
| | Small | (3 * 3 * 23% * 93% * 10 = 19.41 * 23.24 \$ 451.05 | | | | | | | | 6 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | |
| ALL | Large | (361 * 3 * 23% * 54% * 1 = 134.49 * 25.76 \$ 3,464.55 | | | | | | | | 45 |
| | Small | (36 * 3 * 23% * 95% * 1 = 23.91 * 25.76 \$ 615.82 | | | | | | | | 8 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | |
| ALL | Large | (2 * 3 * 23% * 37% * 4 = 2.49 * 23.12 \$ 57.60 | | | | | | | | 1 |
| | Small | (1 * 3 * 23% * 93% * 3 = 1.39 * 23.12 \$ 32.17 | | | | | | | | 0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | |
| ALL | Large | (8 * 3 * 23% * 56% * 1 = 3.09 * 31.25 \$ 96.60 | | | | | | | | 1 |
| | Small | (0 * 3 * 23% * 95% * 0 = 0.00 * 31.25 \$ - | | | | | | | | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | |
| Alloy and Stainless Steel | Large | (30 * 3 * 23% * 56% * 37 = 425.21 * 31.25 \$ 13,287.81 | | | | | | | | 142 |
| | Small | (1 * 3 * 23% * 95% * 12 = 11.02 * 31.25 \$ 344.30 | | | | | | | | 4 |
| Carbon Steel | Large | (1 * 3 * 23% * 56% * 112 = 30.37 * 31.25 \$ 949.13 | | | | | | | | 10 |
| | Small | (1 * 3 * 23% * 95% * 35 = 32.41 * 31.25 \$ 1,012.66 | | | | | | | | 11 |

Table 16

| | | EMPAL | RESPEXAMTIME | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|---------------------------------------|-------|---------|--------------|-------------|------------|---------|-----------|-------------|--------------|-----------|
| SECTOR 14B. Forging Industry | | | | | | | | | | |
| RESHAPING INDUSTRY | Large | (3 * | 3 * | 23% * | 56% * | 37 = | 39.73 * | 31.25 \$ | 1,241.63 | 13 |
| | Small | (1 * | 3 * | 23% * | 95% * | 34 = | 15.88 * | 31.25 \$ | 496.20 | 5 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | |
| ALL | Large | (19 * | 3 * | 23% * | 56% * | 178 = | 1301.72 * | 22.8 \$ | 29,679.12 | 434 |
| | Small | (5 * | 3 * | 23% * | 95% * | 130 = | 382.38 * | 22.8 \$ | 8,718.36 | 127 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | |
| ALL | Large | (32 * | 3 * | 23% * | 37% * | 3 = | 23.95 * | 30.36 \$ | 727.27 | 8 |
| | Small | (7 * | 3 * | 23% * | 93% * | 1 = | 4.39 * | 30.36 \$ | 133.29 | 1 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | |
| ALL | Large | (0 * | 3 * | 23% * | 37% * | 0 = | 0.00 * | 33.42 \$ | - | 0 |
| | Small | (1 * | 3 * | 23% * | 93% * | 5 = | 3.48 * | 33.42 \$ | 116.17 | 1 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | |
| ALL | Large | (0 * | 3 * | 23% * | 92% * | 207 = | 0.00 * | 24.1 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 99% * | 1,561 = | 0.00 * | 24.1 \$ | - | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | |
| ALL | Large | (0 * | 3 * | 23% * | 89% * | 347 = | 0.00 * | 16.08 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 99% * | 703 = | 0.00 * | 16.08 \$ | - | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | |
| ALL | Large | (1 * | 3 * | 23% * | 76% * | 5 = | 2.57 * | 23.25 \$ | 59.78 | 1 |
| | Small | (0 * | 3 * | 23% * | 97% * | 17 = | 0.00 * | 23.25 \$ | - | 0 |
| Fiber, Flat and Container Glass | Large | (6 * | 3 * | 23% * | 76% * | 78 = | 257.96 * | 23.25 \$ | 5,997.47 | 86 |
| | Small | (1 * | 3 * | 23% * | 97% * | 5 = | 2.73 * | 23.25 \$ | 63.58 | 1 |
| SECTOR 22. Printing | | | | | | | | | | |
| ALL | Large | (0 * | 3 * | 23% * | 98% * | 92 = | 0.00 * | 16.79 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 99.70% * | 367 = | 0.00 * | 16.79 \$ | - | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | |
| ALL | Large | (1 * | 3 * | 23% * | 67% * | 1 = | 0.47 * | 26.18 \$ | 12.21 | 0 |
| | Small | (0 * | 3 * | 23% * | 0% * | 0 = | 0.00 * | 26.18 \$ | - | 0 |
| Chromium Catalyst Companies | Large | (109 * | 3 * | 23% * | 0% * | 1 = | 0.00 * | 26.18 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 97% * | 1 = | 0.00 * | 26.18 \$ | - | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | |
| ALL | Large | (0 * | 3 * | 23% * | 76% * | 6 = | 0.00 * | 20.65 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 97% * | 0 = | 0.00 * | 20.65 \$ | - | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | |
| GENERAL INDUSTRY | Large | (0 * | 3 * | 23% * | 94% * | 1 = | 0.00 * | 18.59 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 99% * | 1 = | 0.00 * | 18.59 \$ | - | 0 |
| MARITIME | Large | (0 * | 3 * | 23% * | 55% * | 38 = | 0.00 * | 18.59 \$ | - | 0 |
| | Small | (0 * | 3 * | 23% * | 95% * | 34 = | 0.00 * | 18.59 \$ | - | 0 |

Table 16

| | | EMPAL | RESPEXAMTIME | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | HOURS | NONSUPEWAGE | Item 12 COST | Responses |
|---|-------|---|--------------|---------------|-------------------|--------------|-------|-------------|--------------|-----------|
| CONSTRUCTION | Large | (0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 99% * 1 = 0.00 * 18.59 \$ - 0 | | | | | | | | |
| GOVERNMENT | State | (0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0 | | | | | | | | |
| | Local | (0 * 3 * 23% * 88% * 1 = 0.00 * 18.59 \$ - 0 | | | | | | | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | |
| ALL | Large | (0 * 3 * 23% * 59% * 48 = 0.00 * 21.93 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 96% * 58 = 0.00 * 21.93 \$ - 0 | | | | | | | | |
| GOVERNMENT | State | (0 * 3 * 23% * 59% * 0 = 0.00 * 21.93 \$ - 0 | | | | | | | | |
| | Local | (0 * 3 * 23% * 96% * 29 = 0.00 * 21.93 \$ - 0 | | | | | | | | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | |
| ALL | Large | (0 * 3 * 23% * 56% * 18 = 0.00 * 22.49 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 95% * 0 = 0.00 * 22.49 \$ - 0 | | | | | | | | |
| SECTOR 31. Construction | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | (0 * 3 * 23% * 88% * 55 = 0.00 25.88 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 99% * 196 = 0.00 25.88 \$ - 0 | | | | | | | | |
| | State | (0 * 3 * 23% * 88% * 16 = 0.00 25.88 \$ - 0 | | | | | | | | |
| | Local | (0 * 3 * 23% * 88% * 74 = 0.00 25.88 \$ - 0 | | | | | | | | |
| HAZARDOUS WASTE-SITE WORK | Large | (0 * 3 * 23% * 88% * 1 = 0.00 * 25.88 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 99% * 1 = 0.00 * 25.88 \$ - 0 | | | | | | | | |
| | State | (0 * 3 * 23% * 88% * 1 = 0.00 * 25.88 \$ - 0 | | | | | | | | |
| REFRACTORY BRICK RESTORATION | Large | (0 * 3 * 23% * 88% * 48 = 0.00 * 25.88 \$ - 0 | | | | | | | | |
| | Small | (0 * 3 * 23% * 99% * 148 = 0.00 * 25.88 \$ - 0 | | | | | | | | |
| | | Total | 7,851 | 13,300 | \$ 312,050 | 4,433 | | | | |

Table 17

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

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

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

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

* RESPEXAMCOST = Cost for medical exam for respirator use

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

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

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

| | | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|-------------------------------------|-------|---------|--------------|-------------|------------|---------|---------------|
| Sector 1. Electroplating | | | | | | | |
| ALL | Large | 5,447 * | \$ 120.91 * | 23% * | 71% * | 1 | \$ 107,542.40 |
| | Small | 1,188 * | \$ 120.91 * | 23% * | 97% * | 1 | \$ 32,032.51 |
| Sector 2. Welding | | | | | | | |
| GENERAL INDUSTRY | Large | 0 * | \$ 120.91 * | 23% * | 81% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 98% * | 1 | \$ - |
| MARITIME | Large | 2,345 * | \$ 120.91 * | 23% * | 55% * | 1 | \$ 35,873.28 |
| | Small | 55 * | \$ 120.91 * | 23% * | 95% * | 1 | \$ 1,464.91 |
| CONSTRUCTION | Large | 3,247 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ 79,465.79 |
| | Small | 2,511 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ 69,124.88 |
| GOVERNMENT | State | 15 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ 357.10 |
| | Local | 74 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ 2,035.45 |
| Sector 2. Mild Steel Welding | | | | | | | |
| GENERAL INDUSTRY | Large | 0 * | \$ 120.91 * | 23% * | 81% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 98% * | 1 | \$ - |
| MARITIME | Large | 17 * | \$ 120.91 * | 23% * | 55% * | 1 | \$ 252.94 |
| | Small | 0 * | \$ 120.91 * | 23% * | 95% * | 1 | \$ - |
| CONSTRUCTION | Large | 662 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ 16,212.16 |
| | Small | 533 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ 14,676.65 |
| SECTOR 3. PAINTING | | | | | | | |
| GENERAL INDUSTRY AEROSPACE | Large | 46 * | \$ 120.91 * | 23% * | 81% * | 50 | \$ 51,459.87 |
| | Small | 0 * | \$ 120.91 * | 23% * | 98% * | 63 | \$ - |

Table 17

| | | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|---|-------|-------|--------------|-------------|------------|---------|--------------|
| GENERAL INDUSTRY AUTOBODY | Large | 1 * | \$ 120.91 * | 23% * | 81% * | 331 | \$ 6,861.32 |
| | Small | 0 * | \$ 120.91 * | 23% * | 98% * | 1,458 | \$ - |
| COIL COATINGS | Large | 2 * | \$ 120.91 * | 23% * | 81% * | 101 | \$ 4,193.03 |
| | Small | 1 * | \$ 120.91 * | 23% * | 98% * | 18 | \$ 461.19 |
| MARITIME | Large | 1 * | \$ 120.91 * | 23% * | 55.00% * | 294 | \$ 4,115.20 |
| | Small | 1 * | \$ 120.91 * | 23% * | 95% * | 508 | \$ 13,423.50 |
| CONSTRUCTION | Large | 471 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| | Small | 593 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| GOVERNMENT | State | 43 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| | Local | 186 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| SECTOR 4. Producers of Chromates | | | | | | | \$ - |
| ALL | Large | 7 * | \$ 120.91 * | 23% * | 37% * | 2 | \$ 156.06 |
| | Small | 0 * | \$ 120.91 * | 23% * | 93% * | 0 | \$ - |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | |
| ALL | Large | 6 * | \$ 120.91 * | 23% * | 37% * | 2 | \$ 127.05 |
| | Small | 1 * | \$ 120.91 * | 23% * | 93% * | 1 | \$ 26.61 |
| SECTOR 6. CCA Producers | | | | | | | \$ - |
| ALL | Large | 2 * | \$ 120.91 * | 23% * | 37% * | 3 | \$ 44.84 |
| | Small | 0 * | \$ 120.91 * | 23% * | 93% * | 0 | \$ - |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | |
| ALL | Large | 12 * | \$ 120.91 * | 23% * | 37% * | 5 | \$ 668.81 |
| | Small | 0 * | \$ 120.91 * | 23% * | 93% * | 0 | \$ - |
| SECTOR 8. Paint and Coating Producers | | | | | | | |
| ALL | Large | 1 * | \$ 120.91 * | 23% * | 37% * | 87 | \$ 936.34 |
| | Small | 0 * | \$ 120.91 * | 23% * | 93% * | 137 | \$ - |
| SECTOR 9. Printing Ink Producers | | | | | | | |
| ALL | Large | 12 * | \$ 120.91 * | 23% * | 37% * | 3 | \$ 373.44 |
| | Small | 3 * | \$ 120.91 * | 23% * | 93% * | 10 | \$ 782.20 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | |
| ALL | Large | 361 * | \$ 120.91 * | 23% * | 54% * | 1 | \$ 5,420.34 |
| | Small | 36 * | \$ 120.91 * | 23% * | 95% * | 1 | \$ 963.46 |

Table 17

| | | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|--|-------|-------|--------------|-------------|------------|---------|--------------|
| SECTOR 11. Plating Mixture Producers | | | | | | | |
| ALL | Large | 2 * | \$ 120.91 * | 23% * | 37% * | 4 | \$ 100.41 |
| | Small | 1 * | \$ 120.91 * | 23% * | 93% * | 3 | \$ 56.08 |
| SECTOR 13. Chromium Metal Producers | | | | | | | |
| ALL | Large | 8 * | \$ 120.91 * | 23% * | 56% * | 1 | \$ 124.58 |
| | Small | 0 * | \$ 120.91 * | 23% * | 95% * | 0 | \$ - |
| SECTOR 14. Iron and Steel Mills | | | | | | | |
| Alloy and Stainless Steel | Large | 30 * | \$ 120.91 * | 23% * | 56% * | 37 | \$ 17,136.79 |
| | Small | 1 * | \$ 120.91 * | 23% * | 95% * | 12 | \$ 444.04 |
| Carbon Steel | Large | 1 * | \$ 120.91 * | 23% * | 56% * | 112 | \$ 1,224.06 |
| | Small | 1 * | \$ 120.91 * | 23% * | 95% * | 35 | \$ 1,305.99 |
| SECTOR 14B. Forging Industry | | | | | | | |
| Reshaping Industry | Large | 3 * | \$ 120.91 * | 23% * | 56% * | 37 | \$ 1,601.28 |
| | Small | 1 * | \$ 120.91 * | 23% * | 95% * | 34 | \$ 639.94 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | |
| ALL | Large | 19 * | \$ 120.91 * | 23% * | 56% * | 178 | \$ 52,461.69 |
| | Small | 5 * | \$ 120.91 * | 23% * | 95% * | 130 | \$ 15,410.82 |
| SECTOR 17. Chromium Dye Producers | | | | | | | |
| ALL | Large | 32 * | \$ 120.91 * | 23% * | 37% * | 3 | \$ 965.43 |
| | Small | 7 * | \$ 120.91 * | 23% * | 93% * | 1 | \$ 176.94 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 37% * | 0 | \$ - |
| | Small | 1 * | \$ 120.91 * | 23% * | 93% * | 5 | \$ 140.09 |
| SECTOR 19. Chemical Distributors | | | | | | | |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 92% * | 207 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 1,561 | \$ - |
| SECTOR 20. Textile Dyeing | | | | | | | |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 89% * | 347 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 703 | \$ - |
| SECTOR 21. Colored Glass Producers | | | | | | | |
| ALL | Large | 1 * | \$ 120.91 * | 23% * | 76% * | 5 | \$ 103.62 |
| | Small | 0 * | \$ 120.91 * | 23% * | 97% * | 17 | \$ - |
| Fiber, Flat and Container | Large | 6 * | \$ 120.91 * | 23% * | 76% * | 78 | \$ 10,396.11 |
| | small | 1 * | \$ 120.91 * | 23% * | 97% * | 5 | \$ 110.21 |

Table 17

| | | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|---|-------|-------|--------------|-------------|------------|---------|--------------|
| SECTOR 22. Printing | | | | | | | \$ - |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 98% * | 92 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99.70% * | 367 | \$ - |
| SECTOR 24. Chromium Catalyst Users | | | | | | | \$ - |
| Chromium Catalyst Users | Large | 1 * | \$ 120.91 * | 23% * | 67% * | 1 | \$ 18.79 |
| | Small | 0 * | \$ 120.91 * | 23% * | 0% * | 0 | \$ - |
| Chromium Catalyst Companies | Large | 109 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 0% * | 1 | \$ - |
| SECTOR 25. Refractory Brick Producers | | | | | | | \$ - |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 76% * | 6 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 97% * | 0 | \$ - |
| SECTOR 26. Woodworking | | | | | | | \$ - |
| GENERAL INDUSTRY | Large | 0 * | \$ 120.91 * | 23% * | 94% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ - |
| MARITIME | Large | 0 * | \$ 120.91 * | 23% * | 55% * | 38 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 95% * | 34 | \$ - |
| CONSTRUCTION | Large | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ - |
| Government | State | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| | Local | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| SECTOR 27. Solid Waste Incineration | | | | | | | \$ - |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 59% * | 48 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 96% * | 58 | \$ - |
| Government | State | 0 * | \$ 120.91 * | 23% * | 59% * | 0 | \$ - |
| | Local | 0 * | \$ 120.91 * | 23% * | 96% * | 29 | \$ - |
| SECTOR 30. Superalloy Producers and Users | | | | | | | \$ - |
| ALL | Large | 0 * | \$ 120.91 * | 23% * | 56% * | 18 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 95% * | 0 | \$ - |
| SECTOR 31. Construction | | | | | | | \$ - |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | 0 * | \$ 120.91 * | 23% * | 88% * | 55 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 196 | \$ - |
| | State | 0 * | \$ 120.91 * | 23% * | 88% * | 16 | \$ - |
| | Local | 0 * | \$ 120.91 * | 23% * | 88% * | 74 | \$ - |

Table 17

| | | EMPAL | RESPEXAMCOST | %EMPMEDEXAM | 1-%FITBASE | #PLANTS | Item 13 Cost |
|------------------------------|-------|-------|---------------|-------------|------------|--------------|-------------------|
| HAZARDOUS WASTE-SITE WORK | Large | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 1 | \$ - |
| | State | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| | Local | 0 * | \$ 120.91 * | 23% * | 88% * | 1 | \$ - |
| REFRACTORY BRICK RESTORATION | Large | 0 * | \$ 120.91 * | 23% * | 88% * | 48 | \$ - |
| | Small | 0 * | \$ 120.91 * | 23% * | 99% * | 148 | \$ - |
| Total | | | 18,109 | | | 7,851 | \$ 551,468 |

Table 18

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

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

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

GLOVEREPL = The number of glove replacements per year

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

5% of containers need new or replacement labels.

COST = The cost of a label

#PLANTS = Number of model plants

COST = The cost of a label

| Variables | | GLOVEREPL | | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|--------------------------------------|-------|------------|---|--------------|------------------------------|--------|----------|--------------|
| Sector 1. Electroplating | | | | | | | | |
| ALL | Large | 54,888,821 | / | 1,602 | 1713.13 | \$0.36 | 1 = | \$622 |
| | Small | 11,970,179 | / | 1,602 | 373.60 | \$0.36 | 1 = | \$136 |
| Sector 2. Welding | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 7,911 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 8,864 = | \$0 |
| MARITIME | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 191 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 108 = | \$0 |
| CONSTRUCTION | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 269 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 2,160 = | \$0 |
| GOVERNMENT | State | 0 | / | 1,602 | 0.00 | \$0.36 | 25 = | \$0 |
| | Local | 0 | / | 1,602 | 0.00 | \$0.36 | 793 = | \$0 |
| Sector 2A. Mild Steel Welding | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 10,607 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 10,797 = | \$0 |
| MARITIME | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 412 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 233 = | \$0 |
| CONSTRUCTION | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 405 = | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 3,058 = | \$0 |
| SECTOR 3. Painting | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | |
| AEROSPACE | Large | 125,000 | / | 1,602 | 3.90 | \$0.36 | 50 = | \$70 |
| | Small | 1,000 | / | 1,602 | 0.03 | \$0.36 | 63 = | \$1 |

Table 18

| Variables | | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | Item 13 Cost |
|---|-------|-----------|--------------|------------------------------|--------|---------|--------------|
| AUTO BODY | Large | 61,000 / | 1,602 | 1.90 | \$0.36 | 331 = | \$229 |
| | Small | 5,000 / | 1,602 | 0.16 | \$0.36 | 1,458 = | \$83 |
| COIL COATING | Large | 14,000 / | 1,602 | 0.44 | \$0.36 | 101 = | \$16 |
| | Small | 3,000 / | 1,602 | 0.09 | \$0.36 | 18 = | \$1 |
| MARITIME | Large | 5,000 / | 1,602 | 0.16 | \$0.36 | 294 = | \$17 |
| | Small | 2,000 / | 1,602 | 0.06 | \$0.36 | 508 = | \$12 |
| CONSTRUCTION | Large | 14,000 / | 1,602 | 0.44 | \$0.36 | 765 = | \$121 |
| | Small | 3,000 / | 1,602 | 0.09 | \$0.36 | 4,067 = | \$138 |
| GOVERNMENT | State | 5,000 / | 1,602 | 0.16 | \$0.36 | 16 = | \$1 |
| | Local | 59,000 / | 1,602 | 1.84 | \$0.36 | 899 = | \$601 |
| SECTOR 4. Producers of Chromates | | | | | | | |
| ALL | Large | 75,000 / | 1,602 | 2.34 | \$0.36 | 2 = | \$2 |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | |
| ALL | Large | 24,000 / | 1,602 | 0.75 | \$0.36 | 2 = | \$1 |
| | Small | 3,000 / | 1,602 | 0.09 | \$0.36 | 1 = | \$0 |
| SECTOR 6. CCA Producers | | | | | | | |
| ALL | Large | 8,760 / | 1,602 | 0.27 | \$0.36 | 3 = | \$0 |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | |
| ALL | Large | 57,000 / | 1,602 | 1.78 | \$0.36 | 5 = | \$3 |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | |
| ALL | Large | 12,000 / | 1,602 | 0.37 | \$0.36 | 87 = | \$12 |
| | Small | 6,000 / | 1,602 | 0.19 | \$0.36 | 137 = | \$9 |
| SECTOR 9. Printing Ink Producers | | | | | | | |
| ALL | Large | 24,000 / | 1,602 | 0.75 | \$0.36 | 3 = | \$1 |
| | Small | 480 / | 1,602 | 0.01 | \$0.36 | 10 = | \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | |
| ALL | Large | 583 / | 1,602 | 0.02 | \$0.36 | 86 = | \$1 |
| | Small | 120 / | 1,602 | 0.00 | \$0.36 | 42 = | \$0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | |
| ALL | Large | 14,400 / | 1,602 | 0.45 | \$0.36 | 4 = | \$1 |
| | Small | 2,880 / | 1,602 | 0.09 | \$0.36 | 3 = | \$0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | |
| ALL | Large | 0 / | 1,602 | 0.00 | \$0.36 | 1 = | \$0 |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | |
| GENERAL INDUSTRY | Large | 0 / | 1,602 | 0.00 | \$0.36 | 37 = | \$0 |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 12 = | \$0 |

Table 18

| Variables | | | GLOVEREPL | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | | Item 13 Cost |
|--|-------|----------|-----------|--------------|------------------------------|---------|---------|--|--------------|
| CARBON STEEL | Large | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| SECTOR 14b. Alloy Stainless Steel Forging Industry | | | | | | | | | |
| RESHAPING INDUSTRY | Large | 0 / | 1,602 | 0.00 | \$0.36 | 37 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 34 = | \$0 | | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | 0 / | 1,602 | 0.00 | \$0.36 | 178 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 130 = | \$0 | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | 3,840 / | 1,602 | 0.12 | \$0.36 | 3 = | \$0 | | |
| | Small | 840 / | 1,602 | 0.03 | \$0.36 | 1 = | \$0 | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| | Small | 2,000 / | 1,602 | 0.06 | \$0.36 | 5 = | \$0 | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | 0 / | 1,602 | 0.00 | \$0.36 | 207 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 1,561 = | \$0 | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | 7,580 / | 1,602 | 0.24 | \$0.36 | 347 = | \$30 | | |
| | Small | 240 / | 1,602 | 0.01 | \$0.36 | 703 = | \$2 | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | 1,000 / | 1,602 | 0.03 | \$0.36 | 5 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 17 = | \$0 | | |
| FIBER, FLAT, AND CONTAINER GLASS | Large | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | 5,460 / | 1,602 | 0.17 | \$0.36 | 92 = | \$6 | | |
| | Small | 360 / | 1,602 | 0.01 | \$0.36 | 367 = | \$1 | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| Chromium Catalyst Users | Large | 2,000 / | 1,602 | 0.06 | \$0.36 | 164 = | \$4 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| Catalyst Service Companies | Large | 30,000 / | 1,602 | 0.94 | \$0.36 | 21 = | \$7 | | |
| | Small | 15,000 / | 1,602 | 0.47 | \$0.36 | 4 = | \$1 | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | 11,000 / | 1,602 | 0.34 | \$0.36 | 6 = | \$1 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 0 = | \$0 | | |
| SECTOR 26. Woodworking | | | | | | | | | |
| GENERAL INDUSTRY | Large | 0 / | 1,602 | 0.00 | \$0.36 | 175 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 93 = | \$0 | | |
| MARITIME | Large | 0 / | 1,602 | 0.00 | \$0.36 | 38 = | \$0 | | |
| | Small | 0 / | 1,602 | 0.00 | \$0.36 | 34 = | \$0 | | |

Table 18

| Variables | | GLOVEREPL | | NOGLOVESCONT | 5% of containers need labels | COST | #PLANTS | | Item 13 Cost |
|---|-------|-----------|---|--------------|------------------------------|--------------|---------------|--|----------------|
| CONSTRUCTION | Large | 2,000 | / | 1,602 | 0.06 | \$0.36 | 1,290 = | | \$29 |
| | Small | 1,000 | / | 1,602 | 0.03 | \$0.36 | 5,162 = | | \$58 |
| GOVERNMENT | State | 1,000 | / | 1,602 | 0.03 | \$0.36 | 16 = | | \$0 |
| | Local | 1,000 | / | 1,602 | 0.03 | \$0.36 | 59 = | | \$1 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | 20,000 | / | 1,602 | 0.62 | \$0.36 | 48 = | | \$11 |
| | Small | 3,000 | / | 1,602 | 0.09 | \$0.36 | 58 = | | \$2 |
| GOVERNMENT | State | 20,000 | / | 1,602 | 0.62 | \$0.36 | 0 = | | \$0 |
| | Local | 3,000 | / | 1,602 | 0.09 | \$0.36 | 29 = | | \$1 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 18 = | | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 0 = | | \$0 |
| SECTOR 31. Construction | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | 0 | / | 1,602 | 0.00 | \$0.36 | 0 = | | \$0 |
| | Small | 0 | / | 1,602 | 0.00 | \$0.36 | 0 = | | \$0 |
| | State | 0 | / | 1,602 | 0.00 | \$0.36 | 0 = | | \$0 |
| | Local | 0 | / | 1,602 | 0.00 | \$0.36 | 0 = | | \$0 |
| HAZARDOUS WASTE-SITE WORK | Large | 14,000 | / | 1,602 | 0.44 | \$0.36 | 44 = | | \$7 |
| | Small | 3,000 | / | 1,602 | 0.09 | \$0.36 | 143 | | \$5 |
| | State | 2,000 | / | 1,602 | 0.06 | \$0.36 | 1 | | \$0 |
| | Local | 3,000 | / | 1,602 | 0.09 | \$0.36 | 201 = | | \$7 |
| REFRACTORY BRICK RESTORATION | Large | 14,000 | / | 1,602 | 0.44 | \$0.36 | 48 = | | \$8 |
| | Small | 1,000 | / | 1,602 | 0.03 | \$0.36 | 148 = | | \$2 |
| | | | | | | Total | 66,329 | | \$2,258 |

Table 18a

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

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

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

* HCLWAGE = Highest clerical wage rate (overestimation)

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

#PLANTS = Number of model plants

COST = The cost to obtain and affix the label

| Variables | 5% of containers need labels | | #PLANTS | AFFIX | Burden Hours | HCLWage | Item 12 Cost | Responses |
|--------------------------------------|------------------------------|---|---------|----------|--------------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | |
| ALL | 1713.13 | * | 1 | * 0.02 = | 34.26 | * \$28.36 = | \$971.69 | 1713.13 |
| | 373.60 | * | 1 | * 0.02 = | 7.47 | * \$28.36 = | \$211.91 | 373.60 |
| Sector 2. Welding | | | | | | | | |
| GENERAL INDUSTRY | 0.00 | * | 7,911 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 8,864 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| MARITIME | 0.00 | * | 191 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 108 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| CONSTRUCTION | 0.00 | * | 269 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 2,160 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| GOVERNMENT | 0.00 | * | 25 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 793 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| Sector 2A. Mild Steel Welding | | | | | | | | |
| GENERAL INDUSTRY | 0.00 | * | 10,607 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 10,797 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| MARITIME | 0.00 | * | 412 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 233 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| CONSTRUCTION | 0.00 | * | 405 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| | 0.00 | * | 3,058 | * 0.02 = | 0.00 | * \$28.36 = | \$0.00 | 0.00 |
| SECTOR 3. Painting | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | |
| AEROSPACE | 3.90 | * | 50 | * 0.02 = | 3.88 | * \$28.36 = | \$109.92 | 193.79 |
| | 0.03 | * | 63 | * 0.02 = | 0.04 | * \$28.36 = | \$1.11 | 1.95 |
| AUTO BODY | 1.90 | * | 331 | * 0.02 = | 12.61 | * \$28.36 = | \$357.60 | 630.47 |
| | 0.16 | * | 1,458 | * 0.02 = | 4.55 | * \$28.36 = | \$129.05 | 227.52 |
| COIL COATING | 0.44 | * | 101 | * 0.02 = | 0.88 | * \$28.36 = | \$25.08 | 44.21 |
| | 0.09 | * | 18 | * 0.02 = | 0.03 | * \$28.36 = | \$0.98 | 1.72 |
| MARITIME | 0.16 | * | 294 | * 0.02 = | 0.92 | * \$28.36 = | \$26.01 | 45.86 |
| | 0.06 | * | 508 | * 0.02 = | 0.63 | * \$28.36 = | \$17.99 | 31.72 |
| CONSTRUCTION | 0.44 | * | 765 | * 0.02 = | 6.69 | * \$28.36 = | \$189.62 | 334.31 |
| | 0.09 | * | 4,067 | * 0.02 = | 7.62 | * \$28.36 = | \$216.02 | 380.85 |

Table 18a

| Variables | 5% of containers need labels | | #PLANTS | AFFIX | Burden Hours | HCLWage | Item 12 Cost | Responses | | | | |
|--|------------------------------|---|---------|-------|--------------|---------|--------------|-----------|---------|---|----------|---------|
| GOVERNMENT | 0.16 | * | 16 | * | 0.02 | = | 0.05 | * | \$28.36 | = | \$1.44 | 2.53 |
| | 1.84 | * | 899 | * | 0.02 | = | 33.11 | * | \$28.36 | = | \$938.99 | 1655.48 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | |
| ALL | 2.34 | * | 2 | * | 0.02 | = | 0.10 | * | \$28.36 | = | \$2.76 | 4.87 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | |
| ALL | 0.75 | * | 2 | * | 0.02 | = | 0.03 | * | \$28.36 | = | \$0.84 | 1.48 |
| | 0.09 | * | 1 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.05 | 0.09 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | |
| ALL | 0.27 | * | 3 | * | 0.02 | = | 0.01 | * | \$28.36 | = | \$0.40 | 0.70 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | |
| ALL | 1.78 | * | 5 | * | 0.02 | = | 0.19 | * | \$28.36 | = | \$5.25 | 9.26 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | |
| ALL | 0.37 | * | 87 | * | 0.02 | = | 0.65 | * | \$28.36 | = | \$18.57 | 32.75 |
| | 0.19 | * | 137 | * | 0.02 | = | 0.51 | * | \$28.36 | = | \$14.59 | 25.73 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | |
| ALL | 0.75 | * | 3 | * | 0.02 | = | 0.05 | * | \$28.36 | = | \$1.28 | 2.26 |
| | 0.01 | * | 10 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.09 | 0.15 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | |
| ALL | 0.02 | * | 86 | * | 0.02 | = | 0.03 | * | \$28.36 | = | \$0.89 | 1.57 |
| | 0.00 | * | 42 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.09 | 0.16 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | |
| ALL | 0.45 | * | 4 | * | 0.02 | = | 0.04 | * | \$28.36 | = | \$1.13 | 1.99 |
| | 0.09 | * | 3 | * | 0.02 | = | 0.01 | * | \$28.36 | = | \$0.15 | 0.26 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | |
| ALL | 0.00 | * | 1 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | |
| GENERAL INDUSTRY | 0.00 | * | 37 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 12 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| CARBON STEEL | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 14b. Alloy Stainless Steel Forging Industry | | | | | | | | | | | | |
| RESHAPING INDUSTRY | 0.00 | * | 37 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 34 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | |
| ALL | 0.00 | * | 178 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 130 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | |
| ALL | 0.12 | * | 3 | * | 0.02 | = | 0.01 | * | \$28.36 | = | \$0.20 | 0.36 |
| | 0.03 | * | 1 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.01 | 0.03 |

Table 18a

| Variables | 5% of containers need labels | | #PLANTS | AFFIX | Burden Hours | HCLWage | Item 12 Cost | Responses | | | | |
|---|------------------------------|---|---------|-------|--------------|---------|--------------|-----------|---------|---|---------|--------|
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | |
| ALL | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.06 | * | 5 | * | 0.02 | = | 0.01 | * | \$28.36 | = | \$0.18 | 0.32 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | |
| ALL | 0.00 | * | 207 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 1,561 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | |
| ALL | 0.24 | * | 347 | * | 0.02 | = | 1.64 | * | \$28.36 | = | \$46.50 | 81.97 |
| | 0.01 | * | 703 | * | 0.02 | = | 0.11 | * | \$28.36 | = | \$2.99 | 5.27 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | |
| ALL | 0.03 | * | 5 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.10 | 0.17 |
| | 0.00 | * | 17 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| FIBER, FLAT, AND CONTAINER GLASS | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 22. Printing | | | | | | | | | | | | |
| ALL | 0.17 | * | 92 | * | 0.02 | = | 0.31 | * | \$28.36 | = | \$8.87 | 15.65 |
| | 0.01 | * | 367 | * | 0.02 | = | 0.08 | * | \$28.36 | = | \$2.34 | 4.13 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | | |
| Chromium Catalyst Users | 0.06 | * | 164 | * | 0.02 | = | 0.21 | * | \$28.36 | = | \$5.82 | 10.26 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| Catalyst Service Companies | 0.94 | * | 21 | * | 0.02 | = | 0.40 | * | \$28.36 | = | \$11.25 | 19.83 |
| | 0.47 | * | 4 | * | 0.02 | = | 0.04 | * | \$28.36 | = | \$1.07 | 1.89 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | | |
| ALL | 0.34 | * | 6 | * | 0.02 | = | 0.04 | * | \$28.36 | = | \$1.15 | 2.02 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| SECTOR 26. Woodworking | | | | | | | | | | | | |
| GENERAL INDUSTRY | 0.00 | * | 175 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 93 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| MARITIME | 0.00 | * | 38 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 34 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| CONSTRUCTION | 0.06 | * | 1,290 | * | 0.02 | = | 1.61 | * | \$28.36 | = | \$45.66 | 80.51 |
| | 0.03 | * | 5,162 | * | 0.02 | = | 3.22 | * | \$28.36 | = | \$91.39 | 161.12 |
| GOVERNMENT | 0.03 | * | 16 | * | 0.02 | = | 0.01 | * | \$28.36 | = | \$0.29 | 0.51 |
| | 0.03 | * | 59 | * | 0.02 | = | 0.04 | * | \$28.36 | = | \$1.04 | 1.83 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | | |
| ALL | 0.62 | * | 48 | * | 0.02 | = | 0.60 | * | \$28.36 | = | \$17.06 | 30.07 |
| | 0.09 | * | 58 | * | 0.02 | = | 0.11 | * | \$28.36 | = | \$3.07 | 5.41 |
| GOVERNMENT | 0.62 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.09 | * | 29 | * | 0.02 | = | 0.05 | * | \$28.36 | = | \$1.54 | 2.71 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | | |
| ALL | 0.00 | * | 18 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |

Table 18a

| Variables | 5% of containers need labels | | #PLANTS | AFFIX | Burden Hours | HCLWage | Item 12 Cost | Responses | | | | |
|---|------------------------------|---|---------------|-------|--------------|---------|---------------|-----------|---------|---|-------------------|----------------|
| SECTOR 31. Construction | | | | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| | 0.00 | * | 0 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.00 | 0.00 |
| HAZARDOUS WASTE-SITE WORK | 0.44 | * | 44 | * | 0.02 | = | 0.38 | * | \$28.36 | = | \$10.79 | 19.03 |
| | 0.09 | * | 143 | * | 0.02 | = | 0.27 | * | \$28.36 | = | \$7.60 | 13.40 |
| | 0.06 | * | 1 | * | 0.02 | = | 0.00 | * | \$28.36 | = | \$0.03 | 0.06 |
| | 0.09 | * | 201 | * | 0.02 | = | 0.38 | * | \$28.36 | = | \$10.67 | 18.80 |
| REFRACTORY BRICK RESTORATION | 0.44 | * | 48 | * | 0.02 | = | 0.42 | * | \$28.36 | = | \$11.89 | 20.97 |
| | 0.03 | * | 148 | * | 0.02 | = | 0.09 | * | \$28.36 | = | \$2.61 | 4.60 |
| Total | | | 66,329 | | | | 124.39 | | | | \$3,527.60 | 6219.32 |

Table 19

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

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

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

Hours = #PLANTS * NOTTIME

Cost = Hours * SUPEWAGE

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

NOTIME = Time to notify the laundry.

SUPEWAGE = Supervisory Wage Rate

| | | #PLANTS | # of PLANTS *25% | NOTIME | BURDEN HOURS | SUPEWAGE | Item 12 Cost | RESPONSES |
|--|-------|---------|------------------|--------|--------------|------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | |
| ALL | Large | 1 | 0.25 * | 0.08 = | 0.02 * | \$ 34.98 = | \$ 0.70 | 1 |
| | Small | 1 | 0.25 * | 0.08 = | 0.02 * | \$ 34.98 = | \$ 0.70 | 1 |
| Sector 2. Welding | | | | | | | | |
| GENERAL INDUSTRY | Large | 7,911 | 1977.8 * | 0.08 = | 158.22 * | \$ 34.43 = | \$ 5,448.31 | 7,911 |
| | Small | 8,864 | 2216.1 * | 0.08 = | 177.29 * | \$ 34.43 = | \$ 6,104.90 | 8,864 |
| MARITIME | Large | 191 | 47.669 * | 0.08 = | 3.81 * | \$ 34.43 = | \$ 131.32 | 191 |
| | Small | 108 | 26.996 * | 0.08 = | 2.16 * | \$ 34.43 = | \$ 74.37 | 108 |
| CONSTRUCTION | Large | 269 | 67.368 * | 0.08 = | 5.39 * | \$ 34.43 = | \$ 185.59 | 269 |
| | Small | 2,160 | 539.92 * | 0.08 = | 43.19 * | \$ 34.43 = | \$ 1,487.36 | 2,160 |
| GOVERNMENT | State | 25 | 6.3234 * | 0.08 = | 0.51 * | \$ 34.43 = | \$ 17.42 | 25 |
| | Local | 793 | 198.21 * | 0.08 = | 15.86 * | \$ 34.43 = | \$ 546.04 | 793 |
| Sector 2A. Mild Steel Welding | | | | | | | | |
| GENERAL INDUSTRY | Large | 10,607 | 2651.7 * | 0.08 = | 212.13 * | \$ 34.43 = | \$ 7,304.84 | 10,607 |
| | Small | 10,797 | 2699.4 * | 0.08 = | 215.95 * | \$ 34.43 = | \$ 7,436.15 | 10,797 |
| MARITIME | Large | 412 | 102.88 * | 0.08 = | 8.23 * | \$ 34.43 = | \$ 283.40 | 412 |
| | Small | 233 | 58.37 * | 0.08 = | 4.67 * | \$ 34.43 = | \$ 160.80 | 233 |
| CONSTRUCTION | Large | 405 | 101.17 * | 0.08 = | 8.09 * | \$ 34.43 = | \$ 278.71 | 405 |
| | Small | 3,058 | 764.4 * | 0.08 = | 61.15 * | \$ 34.43 = | \$ 2,105.76 | 3,058 |
| SECTOR 3. Painting | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | |
| AEROSPACE | Large | 50 | 12.418 * | 0.08 = | 0.99 * | \$ 43.34 = | \$ 43.06 | 50 |
| | Small | 63 | 15.638 * | 0.08 = | 1.25 * | \$ 43.34 = | \$ 54.22 | 63 |
| AUTO BODY | Large | 331 | 82.788 * | 0.08 = | 6.62 * | \$ 43.34 = | \$ 287.05 | 331 |
| | Small | 1,458 | 364.5 * | 0.08 = | 29.16 * | \$ 43.34 = | \$ 1,263.80 | 1,458 |
| COIL COATING | Large | 101 | 25.296 * | 0.08 = | 2.02 * | \$ 43.34 = | \$ 87.71 | 101 |
| | Small | 18 | 4.5993 * | 0.08 = | 0.37 * | \$ 43.34 = | \$ 15.95 | 18 |
| MARITIME | Large | 294 | 73.472 * | 0.08 = | 5.88 * | \$ 43.34 = | \$ 254.75 | 294 |
| | Small | 508 | 127.03 * | 0.08 = | 10.16 * | \$ 43.34 = | \$ 440.45 | 508 |
| CONSTRUCTION | Large | 765 | 191.27 * | 0.08 = | 15.30 * | \$ 43.34 = | \$ 663.19 | 765 |
| | Small | 4,067 | 1016.9 * | 0.08 = | 81.35 * | \$ 43.34 = | \$ 3,525.73 | 4,067 |
| GOVERNMENT | State | 16 | 4.0608 * | 0.08 = | 0.32 * | \$ 43.34 = | \$ 14.08 | 16 |
| | Local | 899 | 224.75 * | 0.08 = | 17.98 * | \$ 43.34 = | \$ 779.28 | 899 |
| SECTOR 4. Producers of Chromates | | | | | | | | |
| ALL | Large | 2 | 0.5204 * | 0.08 = | 0.04 * | \$ 50.86 = | \$ 2.12 | 2 |
| | Small | 0 | 0 * | 0.08 = | 0.00 * | \$ 50.86 = | \$ - | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | |
| ALL | Large | 2 | 0.4943 * | 0.08 = | 0.04 * | \$ 49.57 = | \$ 1.96 | 2 |
| | Small | 1 | 0.2472 * | 0.08 = | 0.02 * | \$ 49.57 = | \$ 0.98 | 1 |

Table 19

| | | | | | | | | | | | |
|--|-------|-------|--------|---|------|---|-------|------|------------|----------|-------|
| SECTOR 6. CCA Producers | | | | | | | | | | | |
| ALL | Large | 3 | 0.6392 | * | 0.08 | = | 0.05 | * \$ | 41.98 = \$ | 2.15 | 3 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 41.98 = \$ | - | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | |
| ALL | Large | 5 | 1.3011 | * | 0.08 | = | 0.10 | * \$ | 50.86 = \$ | 5.29 | 5 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 50.86 = \$ | - | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | |
| ALL | Large | 87 | 21.858 | * | 0.08 | = | 1.75 | * \$ | 37.87 = \$ | 66.23 | 87 |
| | Small | 137 | 34.348 | * | 0.08 | = | 2.75 | * \$ | 37.87 = \$ | 104.07 | 137 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | |
| ALL | Large | 3 | 0.7531 | * | 0.08 | = | 0.06 | * \$ | 37.94 = \$ | 2.29 | 3 |
| | Small | 10 | 2.5102 | * | 0.08 | = | 0.20 | * \$ | 37.94 = \$ | 7.62 | 10 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | |
| ALL | Large | 86 | 21.508 | * | 0.08 | = | 1.72 | * \$ | 42.04 = \$ | 72.33 | 86 |
| | Small | 42 | 10.52 | * | 0.08 | = | 0.84 | * \$ | 42.04 = \$ | 35.38 | 42 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | |
| ALL | Large | 4 | 1.1045 | * | 0.08 | = | 0.09 | * \$ | 37.72 = \$ | 3.33 | 4 |
| | Small | 3 | 0.7363 | * | 0.08 | = | 0.06 | * \$ | 37.72 = \$ | 2.22 | 3 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | |
| ALL | Large | 1 | 0.25 | * | 0.08 | = | 0.02 | * \$ | 51.02 = \$ | 1.02 | 1 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 51.02 = \$ | - | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | |
| GENERAL INDUSTRY | Large | 37 | 9.3161 | * | 0.08 | = | 0.75 | * \$ | 51.02 = \$ | 38.03 | 37 |
| | Small | 12 | 2.9882 | * | 0.08 | = | 0.24 | * \$ | 51.02 = \$ | 12.20 | 12 |
| CARBON STEEL | Large | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 51.02 = \$ | - | 0 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 51.02 = \$ | - | 0 |
| SECTOR 14b. Alloy Stainless Steel Forging Industry | | | | | | | | | | | |
| RESHAPING INDUSTRY | Large | 37 | 9.1404 | * | 0.08 | = | 0.73 | * \$ | 51.02 = \$ | 37.31 | 37 |
| | Small | 34 | 8.613 | * | 0.08 | = | 0.69 | * \$ | 51.02 = \$ | 35.16 | 34 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | |
| ALL | Large | 178 | 44.556 | * | 0.08 | = | 3.56 | * \$ | 37.21 = \$ | 132.63 | 178 |
| | Small | 130 | 32.404 | * | 0.08 | = | 2.59 | * \$ | 37.21 = \$ | 96.46 | 130 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | |
| ALL | Large | 3 | 0.7415 | * | 0.08 | = | 0.06 | * \$ | 49.57 = \$ | 2.94 | 3 |
| | Small | 1 | 0.2472 | * | 0.08 | = | 0.02 | * \$ | 49.57 = \$ | 0.98 | 1 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | |
| ALL | Large | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 54.55 = \$ | - | 0 |
| | Small | 5 | 1.3011 | * | 0.08 | = | 0.10 | * \$ | 54.55 = \$ | 5.68 | 5 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | |
| ALL | Large | 207 | 51.732 | * | 0.08 | = | 4.14 | * \$ | 39.35 = \$ | 162.87 | 207 |
| | Small | 1,561 | 390.34 | * | 0.08 | = | 31.23 | * \$ | 39.35 = \$ | 1,228.93 | 1,561 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | |
| ALL | Large | 347 | 86.625 | * | 0.08 | = | 6.93 | * \$ | 26.25 = \$ | 181.92 | 347 |
| | Small | 703 | 175.8 | * | 0.08 | = | 14.06 | * \$ | 26.25 = \$ | 369.20 | 703 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | |
| ALL | Large | 5 | 1.3559 | * | 0.08 | = | 0.11 | * \$ | 37.96 = \$ | 4.12 | 5 |
| | Small | 17 | 4.2937 | * | 0.08 | = | 0.34 | * \$ | 37.96 = \$ | 13.04 | 17 |
| FIBER, FLAT, AND CONTAINER GLASS | Large | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 37.96 = \$ | - | 0 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 37.96 = \$ | - | 0 |
| SECTOR 22. Printing | | | | | | | | | | | |
| ALL | Large | 92 | 22.954 | * | 0.08 | = | 1.84 | * \$ | 27.39 = \$ | 50.30 | 92 |
| | Small | 367 | 91.817 | * | 0.08 | = | 7.35 | * \$ | 27.39 = \$ | 201.22 | 367 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | |
| Chromium Catalyst Users | Large | 164 | 41.104 | * | 0.08 | = | 3.29 | * \$ | 42.72 = \$ | 140.49 | 164 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 42.72 = \$ | - | 0 |
| Catalyst Service Companies | Large | 21 | 5.2957 | * | 0.08 | = | 0.42 | * \$ | 42.72 = \$ | 18.10 | 21 |
| | Small | 4 | 1.0087 | * | 0.08 | = | 0.08 | * \$ | 42.72 = \$ | 3.45 | 4 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | |
| ALL | Large | 6 | 1.4714 | * | 0.08 | = | 0.12 | * \$ | 33.72 = \$ | 3.97 | 6 |
| | Small | 0 | 0 | * | 0.08 | = | 0.00 | * \$ | 33.72 = \$ | - | 0 |
| SECTOR 26. Woodworking | | | | | | | | | | | |

Table 19

| | | | | | | | | | |
|--|-------|-------|---------------|------|---|--------------|---------------|--------------------|---------------|
| GENERAL INDUSTRY | Large | 175 | 43.666 * | 0.08 | = | 3.49 * | \$ 42.20 = \$ | 147.41 | 175 |
| | Small | 93 | 23.351 * | 0.08 | = | 1.87 * | \$ 42.20 = \$ | 78.83 | 93 |
| MARITIME | Large | 38 | 9.6131 * | 0.08 | = | 0.77 * | \$ 42.20 = \$ | 32.45 | 38 |
| | Small | 34 | 8.4687 * | 0.08 | = | 0.68 * | \$ 42.20 = \$ | 28.59 | 34 |
| CONSTRUCTION | Large | 1,290 | 322.43 * | 0.08 | = | 25.79 * | \$ 42.20 = \$ | 1,088.49 | 1,290 |
| | Small | 5,162 | 1290.6 * | 0.08 | = | 103.25 * | \$ 42.20 = \$ | 4,356.89 | 5,162 |
| GOVERNMENT | State | 16 | 4.0608 * | 0.08 | = | 0.32 * | \$ 42.20 = \$ | 13.71 | 16 |
| | Local | 59 | 14.682 * | 0.08 | = | 1.17 * | \$ 42.20 = \$ | 49.56 | 59 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | 48 | 12.043 * | 0.08 | = | 0.96 * | \$ 35.80 = \$ | 34.49 | 48 |
| | Small | 58 | 14.452 * | 0.08 | = | 1.16 * | \$ 35.80 = \$ | 41.39 | 58 |
| GOVERNMENT | State | 0 | 0 * | 0.08 | = | 0.00 * | \$ 35.80 = \$ | - | 0 |
| | Local | 29 | 7.2259 * | 0.08 | = | 0.58 * | \$ 35.80 = \$ | 20.69 | 29 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | 18 | 4.4143 * | 0.08 | = | 0.35 * | \$ 36.71 = \$ | 12.96 | 18 |
| | Small | 0 | 0 * | 0.08 | = | 0.00 * | \$ 36.71 = \$ | - | 0 |
| SECTOR 31. Construction | | | | | | | | | |
| INDUSTRIAL REHABILITATION AND MAINTENANCE | Large | 0 | 0 * | 0.08 | = | 0.00 * | \$ 42.27 = \$ | - | 0 |
| | Small | 0 | 0 * | 0.08 | = | 0.00 * | \$ 42.27 = \$ | - | 0 |
| | State | 0 | 0 * | 0.08 | = | 0.00 * | \$ 42.27 = \$ | - | 0 |
| | Local | 0 | 0 * | 0.08 | = | 0.00 * | \$ 42.27 = \$ | - | 0 |
| HAZARDOUS WASTE-SITE WORK | Large | 44 | 10.885 * | 0.08 | = | 0.87 * | \$ 42.27 = \$ | 36.81 | 44 |
| | Small | 143 | 35.767 * | 0.08 | = | 2.86 * | \$ 42.27 = \$ | 120.94 | 143 |
| | State | 1 | 0.2222 * | 0.08 | = | 0.02 * | \$ 42.27 = \$ | 0.75 | 1 |
| | Local | 201 | 50.207 * | 0.08 | = | 4.02 * | \$ 42.27 = \$ | \$170 | 201 |
| REFRACTORY BRICK RESTORATION | Large | 48 | 11.996 * | 0.08 | = | 0.96 * | \$ 42.27 = \$ | 40.57 | 48 |
| | Small | 148 | 36.877 * | 0.08 | = | 2.95 * | \$ 42.27 = \$ | 124.70 | 148 |
| Total | | | 16,582 | | | 1,327 | | \$48,440.60 | 66,329 |

Table 20

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

Employee Time and Cost to Complete the Initial Medical Examination

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

Hours = POTEXEMP*MEDEXAMTIME * #PLANTS

Cost = POTEXEMP* MEDEXAMTIME *NONSUPWAGE * #PLANTS

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

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

*NONSUPEWAGE - Non-supervisory wage rate

* #PLANTS = Number of Plants

| Variables | | POTEXEMP | POTEXEMP * 5% | MEDEXAMTIME | #PLANTS | Hours | NONSUPEWAGE | Item 12 Cost | RESPONSES |
|-------------------------------------|-------|----------|---------------|-------------|----------|---------|-------------|--------------|-----------|
| Sector 1. Electroplating | | | | | | | | | |
| ALL | Large | 6 | 0.2783 * | 3 * | 1,885 = | 1,574 * | \$25.49 | \$40,128 | 10,494 |
| | Small | 1 | 0.0464 * | 3 * | 3,547 = | 494 * | \$25.49 | \$12,583 | 3,291 |
| Sector 2. Welding | | | | | | | | | |
| General Industry | Large | 2 | 0.0973 * | 3 * | 7,911 = | 2,309 * | \$25.10 | \$57,952 | 15,392 |
| | Small | 0 | 0 | * 3 * | 8,864 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | 18 | 0.9242 * | 3 * | 191 = | 529 * | \$25.10 | \$13,269 | 3,524 |
| | Small | 1 | 0.0486 * | 3 * | 108 = | 16 * | \$25.10 | \$396 | 105 |
| Construction | Large | 50 | 2.4807 * | 3 * | 269 = | 2,005 * | \$25.10 | \$50,337 | 13,370 |
| | Small | 5 | 0.2432 * | 3 * | 2,160 = | 1,576 * | \$25.10 | \$39,551 | 10,505 |
| GOVERNMENT | Local | 2 | 0.0973 * | 3 * | 25 = | 7 * | \$25.10 | \$185 | 49 |
| | State | 0 | 0 | * 3 * | 793 = | 0 * | \$25.10 | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| General Industry | Large | 1 | 0.0486 * | 3 * | 10,607 = | 1,548 * | \$25.10 | \$38,849 | 10,319 |
| | Small | 0 | 0 | * 3 * | 10,797 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | 0 | 0 | * 3 * | 412 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | 1 | 0.0486 * | 3 * | 233 = | 34 * | \$25.10 | \$855 | 227 |
| Construction | Large | 18 | 0.9242 * | 3 * | 405 = | 1,122 * | \$25.10 | \$28,163 | 7,480 |
| | Small | 2 | 0.0973 * | 3 * | 3,058 = | 892 * | \$25.10 | \$22,398 | 5,949 |
| SECTOR 3. PAINTING | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | |
| AEROSPACE | Large | 47 | 2.3456 * | 3 * | 50 = | 350 * | \$31.68 | \$11,073 | 2,330 |
| | Small | 1 | 0.046 * | 3 * | 63 = | 9 * | \$31.68 | \$273 | 58 |
| Autobody | Large | 12 | 0.5979 * | 3 * | 331 = | 594 * | \$31.68 | \$18,817 | 3,960 |
| | Small | 1 | 0.046 * | 3 * | 1,458 = | 201 * | \$31.68 | \$6,373 | 1,341 |
| Coil Coating | Large | 2 | 0.092 * | 3 * | 101 = | 28 * | \$31.68 | \$885 | 186 |
| | Small | 1 | 0.046 * | 3 * | 18 = | 3 * | \$31.68 | \$80 | 17 |
| Maritime | Large | 3 | 0.1373 * | 3 * | 294 = | 121 * | \$31.68 | \$3,836 | 807 |
| | Small | 1 | 0.0458 * | 3 * | 508 = | 70 * | \$31.68 | \$2,211 | 465 |

Table 20

| Variables | | POTEXEMP | POTEXEMP * 5% | MEDEXAMTIME | #PLANTS | Hours | NONSUPEWAGE | Item 12 Cost | RESPONSES |
|---|-------|----------|---------------|-------------|---------|-------|-------------|--------------|-----------|
| Construction | Large | 2 | 0.1087 | * 3 * | 765 = | 249 * | \$31.68 | \$7,902 | 1,663 |
| | Small | 1 | 0.0362 | * 3 * | 4,067 = | 442 * | \$31.68 | \$14,003 | 2,947 |
| Government | Local | 9 | 0.4373 | * 3 * | 16 = | 21 * | \$31.68 | \$675 | 142 |
| | State | 1 | 0.0312 | * 3 * | 899 = | 84 * | \$31.68 | \$2,669 | 562 |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | 7 | 0.3643 | * 3 * | 2 = | 2 * | \$37.06 | \$84 | 15 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$37.06 | \$0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| ALL | Large | 25 | 1.249 | * 3 * | 2 = | 7 * | \$36.12 | \$268 | 49 |
| | Small | 3 | 0.1561 | * 3 * | 1 = | 0 * | \$36.12 | \$17 | 3 |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | 3 | 0.1278 | * 3 * | 3 = | 1 * | \$30.60 | \$30 | 7 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$30.60 | \$0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | 27 | 1.3531 | * 3 * | 5 = | 21 * | \$37.06 | \$783 | 141 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$37.06 | \$0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | 5 | 0.2602 | * 3 * | 87 = | 68 * | \$27.60 | \$1,884 | 455 |
| | Small | 2 | 0.1041 | * 3 * | 137 = | 43 * | \$27.60 | \$1,184 | 286 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 3 = | 0 * | \$27.65 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 10 = | 0 * | \$27.65 | \$0 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 86 = | 0 * | \$30.64 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 42 = | 0 * | \$30.64 | \$0 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | 2 | 0.1104 | * 3 * | 4 = | 1 * | \$27.50 | \$40 | 10 |
| | Small | 1 | 0.0736 | * 3 * | 3 = | 1 * | \$27.50 | \$18 | 4 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | 13 | 0.65 | * 3 * | 1 = | 2 * | \$37.17 | \$72 | 13 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$37.17 | \$0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| Alloy Stainless Steel | Large | 40 | 2.0039 | * 3 * | 37 = | 224 * | \$37.17 | \$8,328 | 1,493 |
| | Small | 1 | 0.0703 | * 3 * | 12 = | 3 * | \$37.17 | \$94 | 17 |
| Carbon Steel | Large | 10 | 0.4922 | * 3 * | 112 = | 165 * | \$37.17 | \$6,136 | 1,100 |
| | Small | 1 | 0.0703 | * 3 * | 35 = | 7 * | \$37.17 | \$276 | 49 |
| 14B. Alloy Stainless Steel Forging Industry | | | | | | | | | |
| Reshaping | Large | 3 | 0.1406 | * 3 * | 37 = | 15 * | \$37.17 | \$573 | 103 |
| | Small | 0 | 0 | * 3 * | 34 = | 0 * | \$37.17 | \$0 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | 27 | 1.3502 | * 3 * | 178 = | 722 * | \$27.12 | \$19,579 | 4,813 |
| | Small | 5 | 0.27 | * 3 * | 130 = | 105 * | \$27.12 | \$2,848 | 700 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 3 = | 0 * | \$36.12 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 1 = | 0 * | \$36.12 | \$0 | 0 |

Table 20

| Variables | | POTEXEMP | POTEXEMP * 5% | MEDEXAMTIME | #PLANTS | Hours | NONSUPEWAGE | Item 12 Cost | RESPONSES |
|--|-------|----------|---------------|-------------|---------|-------|-------------|--------------|-----------|
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 0 = | 0 * | \$39.76 | \$0 | 0 |
| | Small | 3 | 0.1561 | * 3 * | 5 = | 2 * | \$39.76 | \$97 | 16 |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 207 = | 0 * | \$28.67 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 1,561 = | 0 * | \$28.67 | \$0 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 347 = | 0 * | \$19.13 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 703 = | 0 * | \$19.13 | \$0 | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | 1 | 0.0452 | * 3 * | 5 = | 1 * | \$27.66 | \$20 | 5 |
| | Small | 0 | 0 | * 3 * | 17 = | 0 * | \$27.66 | \$0 | 0 |
| Fiber, Flat and Container Glass | Large | 10 | 0.4972 | * 3 * | 78 = | 116 * | \$27.66 | \$3,207 | 773 |
| | Small | 2 | 0.0904 | * 3 * | 5 = | 1 * | \$27.66 | \$34 | 8 |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 92 = | 0 * | \$19.97 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 367 = | 0 * | \$19.97 | \$0 | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| Catalyst Users | Large | 1 | 0.0504 | * 3 * | 164 = | 25 * | \$31.14 | \$775 | 166 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$31.14 | \$0 | 0 |
| Chromium Catalyst Service Companies | Large | 10 | 0.5043 | * 3 * | 21 = | 32 * | \$31.14 | \$998 | |
| | Small | 5 | 0.2522 | * 3 * | 4 = | 3 * | \$31.14 | \$95 | 20 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 6 = | 0 * | \$24.56 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$24.56 | \$0 | 0 |
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | 1 | 0.0467 | * 3 * | 175 = | 24 * | \$30.76 | \$753 | 163 |
| | Small | 0 | 0 | * 3 * | 93 = | 0 * | \$30.76 | \$0 | 0 |
| Maritime | Large | 0 | 0 | * 3 * | 38 = | 0 * | \$30.76 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 34 = | 0 * | \$30.76 | \$0 | 0 |
| Construction | Large | 3 | 0.1299 | * 3 * | 1,290 = | 503 * | \$30.76 | \$15,465 | 3,351 |
| | Small | 1 | 0.0433 | * 3 * | 5,162 = | 671 * | \$30.76 | \$20,633 | 4,472 |
| Government | State | 1 | 0.0312 | * 3 * | 16 = | 2 * | \$30.76 | \$47 | 10 |
| | Local | 1 | 0.0312 | * 3 * | 59 = | 6 * | \$30.76 | \$169 | 37 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | 0 | 0 | * 3 * | 48 = | 0 * | \$26.09 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 58 = | 0 * | \$26.09 | \$0 | 0 |
| Government | State | 0 | 0 | * 3 * | 0 = | 0 * | \$26.09 | \$0 | 0 |
| | Local | 0 | 0 | * 3 * | 29 = | 0 * | \$26.09 | \$0 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | 2 | 0.0981 | * 3 * | 18 = | 5 * | \$26.75 | \$139 | 35 |
| | Small | 0 | 0 | * 3 * | 0 = | 0 * | \$26.75 | \$0 | 0 |

Table 20

| Variables | | POTEXEMP | POTEXEMP * 5% | MEDEXAMTIME | #PLANTS | Hours | NONSUPEWAGE | Item 12 Cost | RESPONSES |
|---|-------------|----------|---------------|-------------|---------------|---------------|-------------|------------------|----------------|
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0 | * 3 * | 55 = | 0 * | \$30.79 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 196 = | 0 * | \$30.79 | \$0 | 0 |
| | State Gov't | 0 | 0 | * 3 * | 16 = | 0 * | \$30.79 | \$0 | 0 |
| | Local Gov't | 0 | 0 | * 3 * | 74 = | 0 * | \$30.79 | \$0 | 0 |
| Hazardous Waste Site Work | Large | 0 | 0 | * 3 * | 44 = | 0 * | \$30.79 | \$0 | 0 |
| | Small | 0 | 0 | * 3 * | 143 = | 0 * | \$30.79 | \$0 | 0 |
| | State Gov't | 0 | 0 | * 3 * | 1 = | 0 * | \$30.79 | \$0 | 0 |
| | Local Gov't | 0 | 0 | * 3 * | 201 = | 0 * | \$30.79 | \$0 | 0 |
| Refractory Brick Restoration | Large | 9 | 0.4443 | * 3 * | 48 = | 64 * | \$30.79 | \$1,969 | 426 |
| | Small | 1 | 0.0444 | * 3 * | 148 = | 20 * | \$30.79 | \$605 | 131 |
| Total | | | | | 72,329 | 17,140 | | \$460,684 | 114,055 |

Table 21

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

Contract Cost for a PLHCP to Conduct the Initial Medical Examination

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

COST = POTEXEMP * MEDEXAMCOST * # PLANTS

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

*MEDEXAMCOST = Cost of medical exam

* #PLANTS = Number of Plants

| Variables | | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|-------------------------------------|-------|----------|-------------|-------------|----------|-----------|
| Sector 1. Electroplating | | | | | | |
| All | Large | 6 | 0.2783 * | \$142 * | 1,885 = | \$74,404 |
| | Small | 1 | 0.0464 * | \$142 * | 3,547 = | \$23,331 |
| Sector 2. Welding | | | | | | |
| General Industry | Large | 2 | 0.0973 * | \$142 * | 7,911 = | \$109,132 |
| | Small | 0 | 0.0000 * | \$142 * | 8,864 = | \$0 |
| Maritime | Large | 18 | 0.9242 * | \$142 * | 191 = | \$24,988 |
| | Small | 1 | 0.0486 * | \$142 * | 108 = | \$745 |
| Construction | Large | 50 | 2.4807 * | \$142 * | 269 = | \$94,792 |
| | Small | 5 | 0.2432 * | \$142 * | 2,160 = | \$74,481 |
| Government | State | 2 | 0.0973 * | \$142 * | 25 = | \$349 |
| | Local | 0 | 0.0000 * | \$142 * | 793 = | \$0 |
| Sector 2. Mild Steel Welding | | | | | | |
| General Industry | Large | 1 | 0.0486 * | \$142 * | 10,607 = | \$73,159 |
| | Small | 0 | 0.0000 * | \$142 * | 10,797 = | \$0 |
| Maritime | Large | 0 | 0.0000 * | \$142 * | 412 = | \$0 |
| | Small | 1 | 0.0486 * | \$142 * | 233 = | \$1,610 |
| Construction | Large | 18 | 0.9242 * | \$142 * | 405 = | \$53,036 |
| | Small | 2 | 0.0973 * | \$142 * | 3,058 = | \$42,179 |
| SECTOR 3. PAINTING | | | | | | |
| General Industry | | | | | | |
| AEROSPACE | Large | 47 | 2.3456 * | \$142 * | 50 = | \$16,522 |
| | Small | 1 | 0.0460 * | \$142 * | 63 = | \$408 |
| Auto Body | Large | 2 | 0.0920 * | \$142 * | 331 = | \$4,319 |
| | Small | 1 | 0.0460 * | \$142 * | 1,458 = | \$9,509 |
| Coil Coating | Large | 2 | 0.0920 * | \$142 * | 101 = | \$1,320 |
| | Small | 1 | 0.0460 * | \$142 * | 18 = | \$120 |

Table 21

| Variables | | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|---|-------|----------|-------------|-------------|---------|----------|
| Maritime | Large | 3 | 0.1373 * | \$142 * | 294 = | \$5,723 |
| | Small | 1 | 0.0458 * | \$142 * | 508 = | \$3,298 |
| Construction | Large | 2 | 0.1087 * | \$142 * | 765 = | \$11,791 |
| | Small | 1 | 0.0362 * | \$142 * | 4,067 = | \$20,894 |
| Government | State | 9 | 0.4373 * | \$142 * | 16 = | \$1,007 |
| | Local | 1 | 0.0312 * | \$142 * | 899 = | \$3,982 |
| SECTOR 4. Producers of Chromates | | | | | | |
| ALL | Large | 7 | 0.3643 * | \$142 * | 2 = | \$108 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | |
| ALL | Large | 25 | 1.2490 * | \$142 * | 2 = | \$350 |
| | Small | 3 | 0.1561 * | \$142 * | 1 = | \$22 |
| SECTOR 6. CCA Producers | | | | | | |
| ALL | Large | 3 | 0.1278 * | \$142 * | 3 = | \$46 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | |
| ALL | Large | 27 | 1.3531 * | \$142 * | 5 = | \$999 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | |
| ALL | Large | 5 | 0.2602 * | \$142 * | 87 = | \$3,226 |
| | Small | 2 | 0.1041 * | \$142 * | 137 = | \$2,028 |
| SECTOR 9. Printing Ink Producers | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 3 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 10 = | \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 86 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 42 = | \$0 |
| SECTOR 11. Plating Mixture Producers | | | | | | |
| ALL | Large | 2 | 0.1104 * | \$142 * | 4 = | \$69 |
| | Small | 1 | 0.0736 * | \$142 * | 3 = | \$31 |
| SECTOR 13. Chromium Metal Producers | | | | | | |
| ALL | Large | 13 | 0.6500 * | \$142 * | 1 = | \$92 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | |
| General Industry | Large | 40 | 2.0039 * | \$142 * | 37 = | \$10,589 |
| | Small | 1 | 0.0703 * | \$142 * | 12 = | \$119 |

Table 21

| Variables | | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|---------------------------------------|-------|----------|-------------|-------------|---------|----------|
| Carbon Steel | Large | 10 | 0.4922 * | \$142 * | 112 = | \$7,802 |
| | Small | 1 | 0.0703 * | \$142 * | 35 = | \$351 |
| SECTOR 14B. Forging Industry | | | | | | |
| Reshaping | Large | 3 | 0.1406 * | \$142 * | 37 = | \$729 |
| | Small | 0 | 0.0000 * | \$142 * | 34 = | \$0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | |
| ALL | Large | 27 | 1.3502 * | \$142 * | 178 = | \$34,122 |
| | Small | 5 | 0.2700 * | \$142 * | 130 = | \$4,963 |
| SECTOR 17. Chromium Dye Producers | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 3 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 1 = | \$0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| | Small | 3 | 0.1561 * | \$142 * | 5 = | \$115 |
| SECTOR 19. Chemical Distributors | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 207 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 1,561 = | \$0 |
| SECTOR 20. Textile Dyeing | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 347 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 703 = | \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | |
| General Industry | Large | 1 | 0.0452 * | \$142 * | 5 = | \$35 |
| | Small | 0 | 0.0000 * | \$142 * | 17 = | \$0 |
| Fiber, Flat and Container Glass | Large | 10 | 0.4972 * | \$142 * | 78 = | \$5,481 |
| | Small | 2 | 0.0904 * | \$142 * | 5 = | \$58 |
| SECTOR 22. Printing | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 92 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 367 = | \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | |
| General Industry | Large | 1 | 0.0504 * | \$142 * | 164 = | \$1,176 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |

Table 21

| Variables | | POTEXEMP | POTEXEMP*5% | MEDEXAMCOST | #PLANTS | COST |
|---|-------|----------|-------------|-------------|---------------|------------------|
| Chromium Service Companies | Large | 10 | 0.5043 * | \$142 * | 21 = | \$1,515 |
| | Small | 5 | 0.2522 * | \$142 * | 4 = | \$144 |
| SECTOR 25. Refractory Brick Producers | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 6 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 26. Woodworking | | | | | | |
| General Industry | Large | 1 | 0.0467 * | \$142 * | 175 = | \$1,157 |
| | Small | 0 | 0.0000 * | \$142 * | 93 = | \$0 |
| Maritime | Large | 0 | 0.0000 * | \$142 * | 38 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 34 = | \$0 |
| Construction | Large | 3 | 0.1299 * | \$142 * | 1,290 = | \$23,762 |
| | Small | 1 | 0.0433 * | \$142 * | 5,162 = | \$31,703 |
| Government | State | 1 | 0.0312 * | \$142 * | 16 = | \$72 |
| | Local | 1 | 0.0312 * | \$142 * | 59 = | \$260 |
| SECTOR 27. Solid Waste Incineration | | | | | | |
| ALL | Large | 0 | 0.0000 * | \$142 * | 48 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 58 = | \$0 |
| Government | State | 1 | 0.0438 * | \$142 * | 0 = | \$0 |
| | Local | 0 | 0.0000 * | \$142 * | 29 = | \$0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | |
| ALL | Large | 2 | 0.0981 * | \$142 * | 18 = | \$246 |
| | Small | 0 | 0.0000 * | \$142 * | 0 = | \$0 |
| SECTOR 31. Construction | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 | 0.0000 * | \$142 * | 55 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 196 = | \$0 |
| | State | 0 | 0.0000 * | \$142 * | 16 = | \$0 |
| | Local | 0 | 0.0000 * | \$142 * | 74 = | \$0 |
| Hazardous Waste Site Work | Large | 0 | 0.0000 * | \$142 * | 44 = | \$0 |
| | Small | 0 | 0.0000 * | \$142 * | 143 = | \$0 |
| | State | 0 | 0.0000 * | \$142 * | 1 = | \$0 |
| Refractory Brick Restoration | Local | 0 | 0.0000 * | \$142 * | 201 = | \$0 |
| | Large | 9 | 0.4443 * | \$142 * | 48 = | \$3,023 |
| | Small | 1 | 0.0444 * | \$142 * | 148 = | \$929 |
| Total | | | | | 72,329 | \$786,420 |

Table 22

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

Employee Time and Cost to Complete the Annual Medical Examination

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

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

Hours= Burden Hours x NONSUPEWAGE

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

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

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

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

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

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

* #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | LIMPARTIME | %BASEMED | LIMFULLTIME | 1-%BASEMED | #PLANTS | Hours | NONSUPEWAGE | Cost | Responses |
|---|-------|----------|---|------------|----------|-------------|------------|----------|--------|-------------|-----------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | |
| All | Large | (3 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 1,885 = | | | | | 1,885 = | 15,741 | \$25.49 | \$401,282 | 5,247 |
| | Small | (0 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 3,547 = | | | | | 3,547 = | 0 | \$25.49 | \$0 | 0 |
| Sector 2. Welding | | | | | | | | | | | | |
| General Industry | Large | (0 + | 0.000000) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 7,911 = | | | | | 7,911 = | 0 | \$25.10 | \$0 | 0 |
| | Small | (0 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 8,864 = | | | | | 8,864 = | 0 | \$25.10 | \$0 | 0 |
| Maritime | Large | (14 + | 2.918484) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 191 = | | | | | 191 = | 9,460 | \$25.10 | \$237,451 | 3,153 |
| | Small | (1 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 108 = | | | | | 108 = | 315 | \$25.10 | \$7,910 | 105 |
| Construction | Large | (26 + | 2.918484) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 269 = | | | | | 269 = | 23,594 | \$25.10 | \$592,202 | 7,865 |
| | Small | (3 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 2,160 = | | | | | 2,160 = | 18,909 | \$25.10 | \$474,617 | 6,303 |
| Government | State | (0 + | 0.000000) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 25 = | | | | | 25 = | 0 | \$25.10 | \$0 | 0 |
| | Local | (0 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 793 = | | | | | 793 = | 0 | \$25.10 | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | | | |
| General Industry | Large | (0 + | 0.000000) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 10,607 = | | | | | 10,607 = | 0 | \$25.10 | \$0 | 0 |
| | Small | (0 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 10,797 = | | | | | 10,797 = | 0 | \$25.10 | \$0 | 0 |
| Maritime | Large | (0 + | 0.000000) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 412 = | | | | | 412 = | 0 | \$25.10 | \$0 | 0 |
| | Small | (0 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 233 = | | | | | 233 = | 0 | \$25.10 | \$0 | 0 |
| Construction | Large | (10 + | 0.000000) * ((3 * 5.00%) + (3.00 * (1 - 5.00%)) * 405 = | | | | | 405 = | 11,811 | \$25.10 | \$296,457 | 3,937 |
| | Small | (1 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 3,058 = | | | | | 3,058 = | 8,924 | \$25.10 | \$223,982 | 2,975 |
| SECTOR 3. PAINTING | | | | | | | | | | | | |
| AEROSPACE | Large | (46 + | 0.000000) * ((3 * 80.00%) + (3.00 * (1 - 80.00%)) * 50 = | | | | | 50 = | 6,854 | \$31.68 | \$217,117 | 2,285 |
| | Small | (0 + | 0.000000) * ((3 * 50.00%) + (3.00 * (1 - 50.00%)) * 63 = | | | | | 63 = | 0 | \$31.68 | \$0 | 0 |
| Auto Body | Large | (1 + | 0.000000) * ((3 * 80.00%) + (3.00 * (1 - 80.00%)) * 331 = | | | | | 331 = | 914 | \$31.68 | \$28,949 | 305 |
| | Small | (0 + | 0.000000) * ((3 * 50.00%) + (3.00 * (1 - 50.00%)) * 1,458 = | | | | | 1,458 = | 0 | \$31.68 | \$0 | 0 |
| Coil Coating | Large | (2 + | 0.000000) * ((3 * 80.00%) + (3.00 * (1 - 80.00%)) * 101 = | | | | | 101 = | 558 | \$31.68 | \$17,691 | 186 |
| | Small | (1 + | 0.000000) * ((3 * 50.00%) + (3.00 * (1 - 50.00%)) * 18 = | | | | | 18 = | 51 | \$31.68 | \$1,608 | 17 |
| Maritime | Large | (2 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 294 = | | | | | 294 = | 0 | \$31.68 | \$0 | 538 |
| | Small | (1 + | 0.000000) * ((3 * 50.00%) + (3.00 * (1 - 50.00%)) * 508 = | | | | | 508 = | 1,396 | \$31.68 | \$44,211 | 465 |
| Construction | Large | (2 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 765 = | | | | | 765 = | 4,989 | \$31.68 | \$158,041 | 1,663 |
| | Small | (0 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 4,067 = | | | | | 4,067 = | 0 | \$31.68 | \$0 | 0 |
| Government | State | (0 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 16 = | | | | | 16 = | 0 | \$31.68 | \$0 | 0 |
| | Local | (9 + | 0.000000) * ((3 * 100.00%) + (3.00 * (1 - 100.00%)) * 899 = | | | | | 899 = | 23,589 | \$31.68 | \$747,276 | 7,863 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | |
| ALL | Large | (7 + | 0.000000) * ((3 * 50.00%) + (3.00 * (1 - 50.00%)) * 2 = | | | | | 2 = | 46 | \$37.06 | \$1,686 | 15 |
| | Small | (0 + | 0.000000) * ((3 * 0.00%) + (3.00 * (1 - 0.00%)) * 0 = | | | | | 0 = | 0 | \$37.06 | \$0 | 0 |

Table 23

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

Contract Cost for a PLHCP to Conduct the Medical Examination

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

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

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

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

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

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

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

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

* #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | LIMPARTCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|---|-------|----------|---------------|-------------|----------|-------------|-------------|---------|--------------|
| Sector 1. Electroplating | | | | | | | | | |
| All | Large | 3 + | 0.000000 | 120.92 | 100.00% | \$142 | 1 - 100.00% | 1,885 | \$ 634,456 |
| | Small | 0 + | 0.000000 | 120.92 | 100.00% | \$142 | 1 - 100.00% | 3,547 | \$ - |
| Sector 2. Welding | | | | | | | | | |
| General Industry | Large | 0 + | 0.000000 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 7,911 | \$ - |
| | Small | 0 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 8,864 | \$ - |
| Maritime | Large | 14 + | 2.918484 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 191 | \$ 443,863 |
| | Small | 1 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 108 | \$ 14,896 |
| Construction | Large | 26 + | 2.918484 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 269 | \$ 1,106,993 |
| | Small | 3 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 2,160 | \$ 893,774 |
| Government | State | 0 + | 0.000000 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 25 | \$ - |
| | Local | 0 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 793 | \$ - |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| General Industry | Large | 0 + | 0.000000 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 10,607 | \$ - |
| | Small | 0 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 10,797 | \$ - |
| Maritime | Large | 0 + | 0.000000 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 412 | \$ - |
| | Small | 0 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 233 | \$ - |
| Construction | Large | 10 + | 0.000000 | 120.92 | 5.00% | \$142 | 1 - 5.00% | 405 | \$ 554,162 |
| | Small | 1 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 3,058 | \$ 421,792 |
| SECTOR 3. PAINTING | | | | | | | | | |
| General Industry | | | | | | | | | |
| AEROSPACE | Large | 46 + | 0.000000 | 120.92 | 80.00% | \$142 | 1 - 80.00% | 50 | \$ 285,789 |
| | Small | 0 + | 0.000000 | 120.92 | 50.00% | \$142 | 1 - 50.00% | 63 | \$ - |
| Auto Body | Large | 1 + | 0.000000 | 120.92 | 80.00% | \$142 | 1 - 80.00% | 331 | \$ 38,105 |
| | Small | 0 + | 0.000000 | 120.92 | 50.00% | \$142 | 1 - 50.00% | 1,458 | \$ - |
| Coil Coating | Large | 2 + | 0.000000 | 120.92 | 80.00% | \$142 | 1 - 80.00% | 101 | \$ 23,287 |
| | Small | 1 + | 0.000000 | 120.92 | 50.00% | \$142 | 1 - 50.00% | 18 | \$ 2,223 |
| Maritime | Large | 2 + | 0.000000 | 120.92 | 100.00% | \$142 | 1 - 100.00% | 294 | \$ 65,069 |
| | Small | 1 + | 0.000000 | 120.92 | 50.00% | \$142 | 1 - 50.00% | 508 | \$ 61,109 |
| Construction | Large | 2 + | 0.000000 | 120.92 | 100.00% | \$121 | 1 - 100.00% | 765 | \$ 201,081 |
| | Small | 0 + | 0.000000 | 120.92 | 100.00% | \$121 | 1 - 100.00% | 4,067 | \$ - |
| Government | State | 0 + | 0.000000 | 120.92 | 100.00% | \$121 | 1 - 100.00% | 16 | \$ - |
| | Local | 9 + | 0.000000 | 120.92 | 100.00% | \$121 | 1 - 100.00% | 899 | \$ 950,787 |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | 7 + | 0.000000 | 120.92 | 50.00% | \$142 | 1 - 50.00% | 2 | \$ 1,992 |
| | Small | 0 + | 0.000000 | 120.92 | 0.00% | \$142 | 1 - 0.00% | 0 | \$ - |

Table 23

| Variables | | LIMEMPAL | MEDEXAMADDERM | LIMPARTCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|--|-------|----------|--|-------------|----------|-------------|------------|---------|------|
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| ALL | Large | (9 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 2 = \$ | 2,240 | | | | | |
| | Small | (1 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 1 = \$ | 124 | | | | | |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | (2 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 3 = \$ | 527 | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%)) * 0 = \$ | - | | | | | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | (12 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 5 = \$ | 7,860 | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 0 = \$ | - | | | | | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | (1 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 87 = \$ | 11,004 | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 137 = \$ | - | | | | | |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%)) * 3 = \$ | - | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%)) * 10 = \$ | - | | | | | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 86 = \$ | - | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 42 = \$ | - | | | | | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | (2 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%)) * 4 = \$ | 1,282 | | | | | |
| | Small | (1 + | 0.000000) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%)) * 3 = \$ | 294 | | | | | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | (8 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 1 = \$ | 967 | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%)) * 0 = \$ | - | | | | | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| General Industry | Large | (30 + | 0.006497) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%)) * 37 = \$ | 144,585 | | | | | |
| | Small | (1 + | 0.000309) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%)) * 12 = \$ | 2,279 | | | | | |
| Carbon Steel | Large | (1 + | 0.000155) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%)) * 112 = \$ | 10,327 | | | | | |
| | Small | (1 + | 0.000309) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%)) * 35 = \$ | 6,702 | | | | | |
| SECTOR 14B. Forging Industry | | | | | | | | | |
| Reshaping | Large | (0 + | 0.000619) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%)) * 37 = \$ | 3 | | | | | |
| | Small | (0 + | 0.000155) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%)) * 34 = \$ | 1 | | | | | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | (19 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%)) * 178 = \$ | 421,421 | | | | | |
| | Small | (5 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%)) * 130 = \$ | 81,501 | | | | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 3 = \$ | - | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 1 = \$ | - | | | | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 0 = \$ | - | | | | | |
| | Small | (1 + | 0.000000) * ((120.92 * 100.00%) + (\$142 * (1 - 100.00%)) * 5 = \$ | 655 | | | | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%)) * 207 = \$ | - | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%)) * 1,561 = \$ | - | | | | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%)) * 347 = \$ | - | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%)) * 703 = \$ | - | | | | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| General Industry | Large | (1 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%)) * 5 = \$ | 613 | | | | | |
| | Small | (0 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%)) * 17 = \$ | - | | | | | |

Table 23

| Variables | | LIMEMPAL | MEDEXAMADDERM | LIMPARTCOST | %BASEMED | LIMFULLCOST | 1-%BASEMED | #PLANTS | COST |
|---|-------|----------|---|-------------|----------|-------------|------------|---------------|---------------------|
| Fiber, Flat and Container Glass | Large | (8 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 78 = \$ | 79,116 |
| | Small | (2 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%))) * | | | | | 5 = \$ | 1,142 |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 92 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%))) * | | | | | 367 = \$ | - |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| General Industry | Large | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 164 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 0 = \$ | - |
| Chromium Service Companies | Large | (5 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 21 = \$ | 13,364 |
| | Small | (3 + | 0.000000) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%))) * | | | | | 4 = \$ | 1,655 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 80.00%) + (\$142 * (1 - 80.00%))) * | | | | | 6 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 10.00%) + (\$142 * (1 - 10.00%))) * | | | | | 0 = \$ | - |
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | (0 + | 0.000000) * ((120.92 * 25.00%) + (\$142 * (1 - 25.00%))) * | | | | | 175 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%))) * | | | | | 93 = \$ | - |
| Maritime | Large | (0 + | 0.000000) * ((120.92 * 25.00%) + (\$142 * (1 - 25.00%))) * | | | | | 38 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 0.00%) + (\$142 * (1 - 0.00%))) * | | | | | 34 = \$ | - |
| Construction | Large | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 1,290 = \$ | 146,745 |
| | Small | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 5,162 = \$ | 587,375 |
| Government | State | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 16 = \$ | 1,333 |
| | Local | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 59 = \$ | 4,819 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 48 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%))) * | | | | | 58 = \$ | - |
| Government | State | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 0 = \$ | - |
| | Local | (0 + | 0.000000) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%))) * | | | | | 29 = \$ | - |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | (2 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 18 = \$ | 4,551 |
| | Small | (0 + | 0.000000) * ((120.92 * 30.00%) + (\$142 * (1 - 30.00%))) * | | | | | 0 = \$ | - |
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 55 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 196 = \$ | - |
| | State | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 16 = \$ | - |
| | Local | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 74 = \$ | - |
| Hazardous Waste Site Work | Large | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 44 = \$ | - |
| | Small | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 143 = \$ | - |
| | State | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 1 = \$ | - |
| | Local | (0 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 201 = \$ | - |
| Refractory Brick Restoration | Large | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 48 = \$ | 5,601 |
| | Small | (1 + | 0.000000) * ((120.92 * 50.00%) + (\$142 * (1 - 50.00%))) * | | | | | 148 = \$ | 17,218 |
| Total | | | | | | | | 72,329 | \$ 7,254,681 |

Table 24

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

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

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

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

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

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

*MEDEXAMADDAL = Employee time for medical examination with additional testing

#PLANTS = Number of Plants

NONSUPEWAGE = Nonsupervisory wage rate.

| Variables | | POTEXEMP * 5% | %PREVABN | MEDEXAMADDAL | #PLANTS | Hours | NONSUPEWAGE | Cost | Responses |
|-------------------------------------|-------|---------------|----------|--------------|----------|-------|-------------|-------|-----------|
| Sector 1. Electroplating | | | | | | | | | |
| All | Large | 0.2783 * | 0.50% * | 4 * | 1,885 = | 10 * | \$25.49 | \$268 | 3 |
| | Small | 0.0464 * | 0.50% * | 4 * | 3,547 = | 3 * | \$25.49 | \$84 | 1 |
| Sector 2. Welding | | | | | | | | | |
| General Industry | Large | 0.0973 * | 0.50% * | 4 * | 7,911 = | 15 * | \$25.10 | \$386 | 4 |
| | Small | 0.0000 * | 0.50% * | 4 * | 8,864 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | 0.9242 * | 0.50% * | 4 * | 191 = | 4 * | \$25.10 | \$88 | 1 |
| | Small | 0.0486 * | 0.50% * | 4 * | 108 = | 0 * | \$25.10 | \$3 | 0 |
| Construction | Large | 2.4807 * | 0.50% * | 4 * | 269 = | 13 * | \$25.10 | \$336 | 3 |
| | Small | 0.2432 * | 0.50% * | 4 * | 2,160 = | 11 * | \$25.10 | \$264 | 3 |
| Government | State | 0.0973 * | 0.50% * | 4 * | 25 = | 0 * | \$25.10 | \$1 | 0 |
| | Local | 0.0000 * | 0.50% * | 4 * | 793 = | 0 * | \$25.10 | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| General Industry | Large | 0.0486 * | 0.50% * | 4 * | 10,607 = | 10 * | \$25.10 | \$259 | 3 |
| | Small | 0.0000 * | 0.50% * | 4 * | 10,797 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | 0.0000 * | 0.50% * | 4 * | 412 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | 0.0486 * | 0.50% * | 4 * | 233 = | 0 * | \$25.10 | \$6 | 0 |
| Construction | Large | 0.9242 * | 0.50% * | 4 * | 405 = | 7 | \$25.10 | \$188 | 2 |
| | Small | 0.0973 * | 0.50% * | 4 * | 3,058 = | 6 | \$25.10 | \$149 | 1 |
| SECTOR 3. PAINTING | | | | | | | | | |
| General Industry AEROSPACE | Large | 2.3456 * | 0.50% * | 4 * | 50 = | 2 * | \$31.68 | \$74 | 1 |
| | Small | 0.0460 * | 0.50% * | 4 * | 63 = | 0 * | \$31.68 | \$2 | 0 |

Table 24

| Variables | | POTXEMP * 5% | %PREVABN | MEDEXAMADDAL | #PLANTS | Hours | NONSUPWAGE | Cost | Responses |
|---|-------|--------------|----------|--------------|---------|-------|------------|------|-----------|
| | | | | | | | | | |
| AUTOBODY REPAIR | Large | 0.0920 * | 0.50% * | 4 * | 331 = | 1 * | \$31.68 | \$19 | 0 |
| | Small | 0.0460 * | 0.50% * | 4 * | 1,458 = | 1 * | \$31.68 | \$42 | 0 |
| COIL COATING | Large | 0.0920 * | 0.50% * | 4 * | 101 = | 0 * | \$31.68 | \$6 | 0 |
| | Small | 0.0460 * | 0.50% * | 4 * | 18 = | 0 * | \$31.68 | \$1 | 0 |
| Maritime | Large | 0.1373 * | 0.50% * | 4 * | 294 = | 1 * | \$31.68 | \$26 | 0 |
| | Small | 0.0458 * | 0.50% * | 4 * | 508 = | 0 * | \$31.68 | \$15 | 0 |
| Construction | Large | 0.1087 * | 0.50% * | 4 * | 765 = | 2 * | \$31.68 | \$53 | 0 |
| | Small | 0.0362 * | 0.50% * | 4 * | 4,067 = | 3 * | \$31.68 | \$93 | 1 |
| Government | State | 0.4373 * | 0.50% * | 4 * | 16 = | 0 * | \$31.68 | \$5 | 0 |
| | Local | 0.0312 * | 0.50% * | 4 * | 899 = | 1 * | \$31.68 | \$18 | 0 |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| All | Large | 0.3643 * | 0.50% * | 4 * | 2 = | 0 * | \$37.06 | \$1 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$37.06 | \$0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| All | Large | 1.2490 * | 0.50% * | 4 * | 2 = | 0 * | \$36.12 | \$2 | 0 |
| | Small | 0.1561 * | 0.50% * | 4 * | 1 = | 0 * | \$36.12 | \$0 | 0 |
| SECTOR 6. CCA Producers | | | | | | | | | |
| All | Large | 0.1278 * | 0.50% * | 4 * | 3 = | 0 * | \$30.60 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$30.60 | \$0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| All | Large | 1.3531 * | 0.50% * | 4 * | 5 = | 0 * | \$37.06 | \$5 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$37.06 | \$0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| All | Large | 0.2602 * | 0.50% * | 4 * | 87 = | 0 * | \$27.60 | \$13 | 0 |
| | Small | 0.1041 * | 0.50% * | 4 * | 137 = | 0 * | \$27.60 | \$8 | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 3 = | 0 * | \$27.65 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 10 = | 0 * | \$27.65 | \$0 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 86 = | 0 * | \$30.64 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 42 = | 0 * | \$30.64 | \$0 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| All | Large | 0.1104 * | 0.50% * | 4 * | 4 = | 0 * | \$27.50 | \$0 | 0 |
| | Small | 0.0736 * | 0.50% * | 4 * | 3 = | 0 * | \$27.50 | \$0 | 0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| All | Large | 0.6500 * | 0.50% * | 4 * | 1 = | 0 * | \$37.17 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$37.17 | \$0 | 0 |

Table 24

| Variables | | POTXEMP * 5% | %PREVABN | MEDEXAMADDAL | #PLANTS | Hours | NONSUPWAGE | Cost | Responses |
|---------------------------------------|-------|--------------|----------|--------------|---------|-------|------------|-------|-----------|
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| All | Large | 2.0039 * | 0.50% * | 4 * | 37 = | 1 * | \$37.17 | \$56 | 0 |
| | Small | 0.0703 * | 0.50% * | 4 * | 12 = | 0 * | \$37.17 | \$1 | 0 |
| Carbon Steel | Large | 0.4922 * | 0.50% * | 4 * | 112 = | 1 * | \$37.17 | \$41 | 0 |
| | Small | 0.0703 * | 0.50% * | 4 * | 35 = | 0 * | \$37.17 | \$2 | 0 |
| 14B. | | | | | | | | | |
| Reshaping Industry | Large | 0.1406 * | 0.50% * | 4 * | 37 = | 0 * | \$37.17 | \$4 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 34 = | 0 * | \$37.17 | \$0 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| All | Large | 1.3502 * | 0.50% * | 4 * | 178 = | 5 * | \$27.12 | \$131 | 1 |
| | Small | 0.2700 * | 0.50% * | 4 * | 130 = | 1 * | \$27.12 | \$19 | 0 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 3 = | 0 * | \$36.12 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 1 = | 0 * | \$36.12 | \$0 | 0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$39.76 | \$0 | 0 |
| | Small | 0.1561 * | 0.50% * | 4 * | 5 = | 0 * | \$39.76 | \$1 | 0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 207 = | 0 * | \$28.67 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 1,561 = | 0 * | \$28.67 | \$0 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 347 = | 0 * | \$19.13 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 703 = | 0 * | \$19.13 | \$0 | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| All | Large | 0.0452 * | 0.50% * | 4 * | 5 = | 0 * | \$27.66 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 17 = | 0 * | \$27.66 | \$0 | 0 |
| Fiber, Flat and Container Glass | Large | 0.4972 * | 0.50% * | 4 * | 78 = | 1 * | \$27.66 | \$21 | 0 |
| | Small | 0.0904 * | 0.50% * | 4 * | 5 = | 0 * | \$27.66 | \$0 | 0 |
| SECTOR 22. Printing | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 92 = | 0 * | \$19.97 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 367 = | 0 * | \$19.97 | \$0 | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| All | Large | 0.0504 * | 0.50% * | 4 * | 164 = | 0 * | \$31.14 | \$5 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$31.14 | \$0 | 0 |
| Catalyst Service Companies | Large | 0.5043 * | 0.50% * | 4 * | 21 = | 0 * | \$31.14 | \$7 | 0 |
| | Small | 0.2522 * | 0.50% * | 4 * | 4 = | 0 * | \$31.14 | \$1 | 0 |

Table 24

| Variables | | POTXEMP * 5% | %PREVABN | MEDEXAMADDAL | #PLANTS | Hours | NONSUPWAGE | Cost | Responses |
|--|-------------|--------------|----------|--------------|---------------|------------|------------|----------------|-----------|
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| All | Large | 0.0000 * | 0.50% * | 4 * | 6 = | 0 * | \$24.56 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$24.56 | \$0 | 0 |
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | 0.0467 * | 0.50% * | 4 * | 175 = | 0 * | \$30.76 | \$5 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 93 = | 0 * | \$30.76 | \$0 | 0 |
| Maritime | Large | 0.0000 * | 0.50% * | 4 * | 38 = | 0 * | \$30.76 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 34 = | 0 * | \$30.76 | \$0 | 0 |
| Construction | Large | 0.1299 * | 0.50% * | 4 * | 1,290 = | 3 * | \$30.76 | \$103 | 1 |
| | Small | 0.0433 * | 0.50% * | 4 * | 5,162 = | 4 * | \$30.76 | \$138 | 1 |
| Government | Local | 0.0312 * | 0.50% * | 4 * | 16 = | 0 * | \$30.76 | \$0 | 0 |
| | State | 0.0312 * | 0.50% * | 4 * | 59 = | 0 * | \$30.76 | \$1 | 0 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | 0.0000 * | 0.50% * | 4 * | 48 = | 0 * | \$30.76 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 58 = | 0 * | \$30.76 | \$0 | 0 |
| Government | Local | 0.0438 * | 0.50% * | 4 * | 0 = | 0 * | \$26.09 | \$0 | 0 |
| | State | 0.0000 * | 0.50% * | 4 * | 29 = | 0 * | \$26.09 | \$0 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | 0.0981 * | 0.50% * | 4 * | 18 = | 0 * | \$26.75 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 0 = | 0 * | \$26.75 | \$0 | 0 |
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0.0000 * | 0.50% * | 4 * | 55 = | 0 * | \$30.79 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 196 = | 0 * | \$30.79 | \$0 | 0 |
| | State Gov't | 0.0000 * | 0.50% * | 4 * | 16 = | 0 * | \$30.79 | \$0 | 0 |
| | Local Gov't | 0.0000 * | 0.50% * | 4 * | 74 = | 0 * | \$30.79 | \$0 | 0 |
| Hazardous Waste Site Work | Large | 0.0000 * | 0.50% * | 4 * | 44 = | 0 * | \$30.79 | \$0 | 0 |
| | Small | 0.0000 * | 0.50% * | 4 * | 143 = | 0 * | \$30.79 | \$0 | 0 |
| | State Gov't | 0.0000 * | 0.50% * | 4 * | 1 = | 0 * | \$30.79 | \$0 | 0 |
| | Local Gov't | 0.0000 * | 0.50% * | 4 * | 201 = | 0 * | \$30.79 | \$0 | 0 |
| Refractory Brick Restoration & Maintenance | Large | 0.4443 * | 0.50% * | 4 * | 48 = | 0 * | \$30.79 | \$13 | 0 |
| | Small | 0.0444 * | 0.50% * | 4 * | 148 = | 0 * | \$30.79 | \$4 | 0 |
| Total | | | | | 72,329 | 111 | | \$2,964 | 28 |

Table 25

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

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

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

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

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

*MEDCOSTADD = Cost for medical examination with additional testing

#PLANTS = Number of Plants

| | | POTEXEMP * 5% | | %PREVABN | | MEDCOSTADD | | #PLANTS | Cost |
|-------------------------------------|-------|---------------|---|----------|---|------------|---|---------|---------|
| Sector 1. Electroplating | | | | | | | | | |
| All | Large | 0.2783 | * | 0.50% | * | \$241.82 | * | 1,885 | = \$634 |
| | Small | 0.0464 | * | 0.50% | * | \$241.82 | * | 3,547 | = \$199 |
| Sector 2. Welding | | | | | | | | | |
| General Industry | Large | 0.0973 | * | 0.50% | * | \$241.82 | * | 7,911 | = \$931 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 8,864 | = \$0 |
| Maritime | Large | 0.9242 | * | 0.50% | * | \$241.82 | * | 191 | = \$213 |
| | Small | 0.0486 | * | 0.50% | * | \$241.82 | * | 108 | = \$6 |
| Construction | Large | 2.4807 | * | 0.50% | * | \$241.82 | * | 269 | = \$808 |
| | Small | 0.2432 | * | 0.50% | * | \$241.82 | * | 2,160 | = \$635 |
| Government | State | 0.0973 | * | 0.50% | * | \$241.82 | * | 25 | = \$3 |
| | Local | 0.0000 | * | 0.50% | * | \$241.82 | * | 793 | = \$0 |
| Sector 2. Mild Steel Welding | | | | | | | | | |
| General Industry | Large | 0.0486 | * | 0.50% | * | \$241.82 | * | 10,607 | = \$624 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 10,797 | = \$0 |
| Maritime | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 412 | = \$0 |
| | Small | 0.0486 | * | 0.50% | * | \$241.82 | * | 233 | = \$14 |
| Construction | Large | 0.9242 | * | 0.50% | * | \$241.82 | * | 405 | = \$452 |
| | Small | 0.0973 | * | 0.50% | * | \$241.82 | * | 3,058 | = \$360 |
| SECTOR 3. PAINTING | | | | | | | | | |
| General Industry AEROSPACE | Large | 2.3456 | * | 0.50% | * | \$241.82 | * | 50 | = \$141 |
| | Small | 0.0460 | * | 0.50% | * | \$241.82 | * | 63 | = \$3 |
| General Industry AUTOBODY | Large | 0.0920 | * | 0.50% | * | \$241.82 | * | 331 | = \$37 |
| | Small | 0.0460 | * | 0.50% | * | \$241.82 | * | 1,458 | = \$81 |
| COIL COATING | Large | 0.0920 | * | 0.50% | * | \$241.82 | * | 101 | = \$11 |
| | Small | 0.0460 | * | 0.50% | * | \$241.82 | * | 18 | = \$1 |

Table 25

| | | POTXEMP * 5% | | %PREVABN | | MEDCOSTADD | | #PLANTS | Cost |
|---|-------|--------------|---|----------|---|------------|---|---------|-------|
| Maritime | Large | 0.1373 | * | 0.50% | * | \$241.82 | * | 294 = | \$49 |
| | Small | 0.0458 | * | 0.50% | * | \$241.82 | * | 508 = | \$28 |
| Construction | Large | 0.1087 | * | 0.50% | * | \$241.82 | * | 765 = | \$101 |
| | Small | 0.0362 | * | 0.50% | * | \$241.82 | * | 4,067 = | \$178 |
| Governments | State | 0.4373 | * | 0.50% | * | \$241.82 | * | 16 = | \$9 |
| | Local | 0.0312 | * | 0.50% | * | \$241.82 | * | 899 = | \$34 |
| SECTOR 4. Producers of Chromates | | | | | | | | | |
| ALL | Large | 0.3643 | * | 0.50% | * | \$241.82 | * | 2 = | \$1 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | |
| ALL | Large | 1.2490 | * | 0.50% | * | \$241.82 | * | 2 = | \$3 |
| | Small | 0.1561 | * | 0.50% | * | \$241.82 | * | 1 = | \$0 |
| SECTOR 6. CCA Producers | | | | | | | | | |
| ALL | Large | 0.1278 | * | 0.50% | * | \$241.82 | * | 3 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | |
| ALL | Large | 1.3531 | * | 0.50% | * | \$241.82 | * | 5 = | \$9 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | |
| ALL | Large | 0.2602 | * | 0.50% | * | \$241.82 | * | 87 = | \$28 |
| | Small | 0.1041 | * | 0.50% | * | \$241.82 | * | 137 = | \$17 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 3 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 10 = | \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 86 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 42 = | \$0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | |
| ALL | Large | 0.1104 | * | 0.50% | * | \$241.82 | * | 4 = | \$1 |
| | Small | 0.0736 | * | 0.50% | * | \$241.82 | * | 3 = | \$0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | |
| ALL | Large | 0.6500 | * | 0.50% | * | \$241.82 | * | 1 = | \$1 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | |
| ALL | Large | 2.0039 | * | 0.50% | * | \$241.82 | * | 37 = | \$90 |
| | Small | 0.0703 | * | 0.50% | * | \$241.82 | * | 12 = | \$1 |

Table 25

| | | POTEXEMP * 5% | | %PREVABN | | MEDCOSTADD | | #PLANTS | Cost |
|---------------------------------------|-------|---------------|---|----------|---|------------|---|---------|-------|
| Carbon Steel | Large | 0.4922 | * | 0.50% | * | \$241.82 | * | 112 = | \$67 |
| | Small | 0.0703 | * | 0.50% | * | \$241.82 | * | 35 = | \$3 |
| SECTOR 14B. Forging Industry | | | | | | | | | |
| ALL | Large | 0.1406 | * | 0.50% | * | \$241.82 | * | 37 = | \$6 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 34 = | \$0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | |
| ALL | Large | 1.3502 | * | 0.50% | * | \$241.82 | * | 178 = | \$291 |
| | Small | 0.2700 | * | 0.50% | * | \$241.82 | * | 130 = | \$42 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 3 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 1 = | \$0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| | Small | 0.1561 | * | 0.50% | * | \$241.82 | * | 5 = | \$1 |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 207 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 1,561 = | \$0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 347 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 703 = | \$0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | 0.0452 | * | 0.50% | * | \$241.82 | * | 5 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 17 = | \$0 |
| Fiber, Flat, Container Glass | Large | 0.4972 | * | 0.50% | * | \$241.82 | * | 78 = | \$47 |
| | Small | 0.0904 | * | 0.50% | * | \$241.82 | * | 5 = | \$0 |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 92 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 367 = | \$0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| ALL | Large | 0.0504 | * | 0.50% | * | \$241.82 | * | 164 = | \$10 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| Chromium Catalyst Companies | Large | 0.5043 | * | 0.50% | * | \$241.82 | * | 21 = | \$13 |
| | Small | 0.2522 | * | 0.50% | * | \$241.82 | * | 4 = | \$1 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 6 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |

Table 25

| | | POTXEMP * 5% | | %PREVABN | | MEDCOSTADD | | #PLANTS | Cost |
|--|-------------|--------------|---|----------|---|------------|---|---------------|----------------|
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | 0.0467 | * | 0.50% | * | \$241.82 | * | 175 = | \$10 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 93 = | \$0 |
| Maritime | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 38 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 34 = | \$0 |
| Construction | Large | 0.1299 | * | 0.50% | * | \$241.82 | * | 1,290 = | \$203 |
| | Small | 0.0433 | * | 0.50% | * | \$241.82 | * | 5,162 = | \$270 |
| Government | State | 0.0312 | * | 0.50% | * | \$241.82 | * | 16 = | \$1 |
| | Local | 0.0312 | * | 0.50% | * | \$241.82 | * | 59 = | \$2 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 48 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 58 = | \$0 |
| Government | State | 0.0438 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| | Local | 0.0000 | * | 0.50% | * | \$241.82 | * | 29 = | \$0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | 0.0981 | * | 0.50% | * | \$241.82 | * | 18 = | \$2 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 0 = | \$0 |
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 55 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 196 = | \$0 |
| | State Gov't | 0.0000 | * | 0.50% | * | \$241.82 | * | 16 = | \$0 |
| | Local Gov't | 0.0000 | * | 0.50% | * | \$241.82 | * | 74 = | \$0 |
| Hazardous Waste Site Work | Large | 0.0000 | * | 0.50% | * | \$241.82 | * | 44 = | \$0 |
| | Small | 0.0000 | * | 0.50% | * | \$241.82 | * | 143 = | \$0 |
| | State Gov't | 0.0000 | * | 0.50% | * | \$241.82 | * | 1 = | \$0 |
| | Local Gov't | 0.0000 | * | 0.50% | * | \$241.82 | * | 201 = | \$0 |
| Refractory Brick Restoration & Maintenance | Large | 0.4443 | * | 0.50% | * | \$241.82 | * | 48 = | \$26 |
| | Small | 0.0444 | * | 0.50% | * | \$241.82 | * | 148 = | \$8 |
| Total | | | | | | | | 72,329 | \$6,706 |

Table 26

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

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

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

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

Cost = Hours * NONSUPWAGE

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

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

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

*ADDMEDTIME = Three hours for an employee to receive additional testing after exam tests are abnormal.

*NONSUPEWAGE - Non-supervisory wage rate

* #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | %ALABN | ADDMEDTIME | #PLANTS | Hours | NONSUPEWAGE | Cost | RESPONSES |
|-------------------------------------|-------|--------------------|---------------|---------|------------|----------|-------|-------------|---------|-----------|
| Sector 1. Electroplating | | | | | | | | | | |
| ALL | Large | (3 + 0.00000) * | | 0.50% * | 3 * | 1,885 = | 79 * | \$25.49 | \$2,006 | 26 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 3,547 = | 0 * | \$21.43 | \$0 | 0 |
| Sector 2. Welding | | | | | | | | | | |
| General Industry | Large | (0 + 0.00000) * | | 0.50% * | 3 * | 7,911 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 8,864 = | 0 * | \$21.43 | \$0 | 0 |
| Maritime | Large | (14 + 2.91848) * | | 0.50% * | 3 * | 191 = | 47 * | \$25.10 | \$1,187 | 16 |
| | Small | (1 + 0.00000) * | | 0.50% * | 3 * | 108 = | 2 * | \$22.43 | \$35 | 1 |
| Construction | Large | (26 + 2.91848) * | | 0.50% * | 3 * | 269 = | 118 * | \$25.10 | \$2,961 | 39 |
| | Small | (3 + 0.00000) * | | 0.50% * | 3 * | 2,160 = | 95 * | \$23.43 | \$2,215 | 32 |
| GOVERNMENT | Local | (0 + 0.00000) * | | 0.50% * | 3 * | 25 = | 0 * | \$25.10 | \$0 | 0 |
| | State | (0 + 0.00000) * | | 0.50% * | 3 * | 793 = | 0 * | \$24.43 | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| General Industry | Large | (0 + 0.00000) * | | 0.50% * | 3 * | 10,607 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 10,797 = | 0 * | \$24.43 | \$0 | 0 |
| Maritime | Large | (0 + 0.00000) * | | 0.50% * | 3 * | 412 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 233 = | 0 * | \$25.43 | \$0 | 0 |
| Construction | Large | (10 + 0.00000) * | | 0.50% * | 3 * | 405 = | 59 * | \$25.10 | \$1,482 | 20 |
| | Small | (1 + 0.00000) * | | 0.50% * | 3 * | 3,058 = | 45 * | \$26.43 | \$1,179 | 15 |
| SECTOR 3. PAINTING | | | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | | | |
| AEROSPACE | Large | (46 + 0.00000) * | | 0.50% * | 3 * | 50 = | 34 * | \$31.68 | \$1,086 | 11 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 63 = | 0 * | \$26.43 | \$0 | 0 |
| Autobody | Large | (1 + 0.00000) * | | 0.50% * | 3 * | 331 = | 5 * | \$31.68 | \$145 | 2 |
| | Small | (0 + 0.00000) * | | 0.50% * | 3 * | 1,458 = | 0 * | \$27.43 | \$0 | 0 |
| Coil Coating | Large | (2 + 0.00000) * | | 0.50% * | 3 * | 101 = | 3 * | \$31.68 | \$88 | 1 |
| | Small | (1 + 0.00000) * | | 0.50% * | 3 * | 18 = | 0 * | \$28.43 | \$7 | 0 |

Table 26

| | | | | | | | |
|---|-------|--------------------------------|---------|-------|---------|---------|----|
| Maritime | Large | (2 + 0.00000) * 0.50% * 3 * | 294 = | 8 * | \$31.68 | \$256 | 3 |
| | Small | (1 + 0.00000) * 0.50% * 3 * | 508 = | 7 * | \$29.43 | \$205 | 2 |
| Construction | Large | (2 + 0.00000) * 0.50% * 3 * | 765 = | 25 * | \$31.68 | \$790 | 8 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 4,067 = | 0 * | \$30.43 | \$0 | 0 |
| Government | Local | (0 + 0.00000) * 0.50% * 3 * | 16 = | 0 * | \$31.68 | \$0 | 0 |
| | State | (9 + 0.00000) * 0.50% * 3 * | 899 = | 118 * | \$31.43 | \$3,707 | 39 |
| SECTOR 4. Producers of Chromates | | | | | | | |
| ALL | Large | (7 + 0.00000) * 0.50% * 3 * | 2 = | 0 * | \$37.06 | \$8 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | |
| ALL | Large | (9 + 0.00000) * 0.50% * 3 * | 2 = | 0 * | \$36.12 | \$10 | 0 |
| | Small | (1 + 0.00000) * 0.50% * 3 * | 1 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 6. CCA Producers | | | | | | | |
| ALL | Large | (2 + 0.00000) * 0.50% * 3 * | 3 = | 0 * | \$30.60 | \$2 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | |
| ALL | Large | (12 + 0.00000) * 0.50% * 3 * | 5 = | 1 * | \$37.06 | \$36 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | |
| ALL | Large | (1 + 0.00378) * 0.50% * 3 * | 87 = | 1 * | \$27.60 | \$38 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 137 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 3 = | 0 * | \$27.65 | \$0 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 10 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 86 = | 0 * | \$30.64 | \$0 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 42 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | |
| ALL | Large | (2 + 0.00000) * 0.50% * 3 * | 4 = | 0 * | \$27.50 | \$4 | 0 |
| | Small | (1 + 0.00000) * 0.50% * 3 * | 3 = | 0 * | \$31.43 | \$1 | 0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | |
| ALL | Large | (8 + 0.00000) * 0.50% * 3 * | 1 = | 0 * | \$37.17 | \$4 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | |
| Alloy Stainless Steel | Large | (30 + 0.00650) * 0.50% * 3 * | 37 = | 17 * | \$37.17 | \$614 | 6 |
| | Small | (1 + 0.00031) * 0.50% * 3 * | 12 = | 0 * | \$31.43 | \$8 | 0 |
| Carbon Steel | Large | (1 + 0.00015) * 0.50% * 3 * | 112 = | 1 * | \$37.17 | \$44 | 0 |
| | Small | (1 + 0.00031) * 0.50% * 3 * | 35 = | 1 * | \$31.43 | \$23 | 0 |
| 14B. Alloy Stainless Steel Forging Industry | | | | | | | |
| Reshaping | Large | (0 + 0.00062) * 0.50% * 3 * | 37 = | 0 * | \$37.17 | \$0 | 0 |
| | Small | (0 + 0.00015) * 0.50% * 3 * | 34 = | 0 * | \$31.43 | \$0 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | |
| ALL | Large | (19 + 0.00000) * 0.50% * 3 * | 178 = | 51 * | \$27.12 | \$1,371 | 17 |
| | Small | (5 + 0.00000) * 0.50% * 3 * | 130 = | 9 * | \$31.43 | \$275 | 3 |
| SECTOR 17. Chromium Dye Producers | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 3 = | 0 * | \$36.12 | \$0 | 0 |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 1 = | 0 * | \$31.43 | \$0 | 0 |

Table 26

| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | |
|---|-----------|-------------------------------|---------|------|---------|---------|----|--|--|
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$39.76 | \$0 | 0 | | |
| | Small | (1 + 0.00000) * 0.50% * 3 * | 5 = | 0 * | \$31.43 | \$3 | 0 | | |
| SECTOR 19. Chemical Distributors | | | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 207 = | 0 * | \$28.67 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 1,561 = | 0 * | \$31.43 | \$0 | 0 | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 347 = | 0 * | \$19.13 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 703 = | 0 * | \$31.43 | \$0 | 0 | | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | |
| ALL | Large | (1 + 0.00000) * 0.50% * 3 * | 5 = | 0 * | \$27.66 | \$2 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 17 = | 0 * | \$31.43 | \$0 | 0 | | |
| Fiber, Flat and Container Glass | Large | (8 + 0.00000) * 0.50% * 3 * | 78 = | 9 * | \$27.66 | \$262 | 3 | | |
| | Small | (2 + 0.00000) * 0.50% * 3 * | 5 = | 0 * | \$31.43 | \$4 | 0 | | |
| SECTOR 22. Printing | | | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 92 = | 0 * | \$19.97 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 367 = | 0 * | \$31.43 | \$0 | 0 | | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | |
| Catalyst Users | Large | (0 + 0.00000) * 0.50% * 3 * | 164 = | 0 * | \$31.14 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 | | |
| Chromium Catalyst Service Companies | Large | (5 + 0.00000) * 0.50% * 3 * | 21 = | 2 * | \$31.14 | \$50 | 1 | | |
| | Small | (3 + 0.00000) * 0.50% * 3 * | 4 = | 0 * | \$31.43 | \$6 | 0 | | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 6 = | 0 * | \$24.56 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$31.43 | \$0 | 0 | | |
| SECTOR 26. Woodworking | | | | | | | | | |
| General Industry | Large | (0 + 0.00000) * 0.50% * 3 * | 175 = | 0 * | \$30.76 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 93 = | 0 * | \$31.43 | \$0 | 0 | | |
| Maritime | Large | (0 + 0.00000) * 0.50% * 3 * | 38 = | 0 * | \$30.76 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 34 = | 0 * | \$31.43 | \$0 | 0 | | |
| Construction | Large | (1 + 0.00000) * 0.50% * 3 * | 1,290 = | 17 * | \$30.76 | \$515 | 6 | | |
| | Small | (1 + 0.00000) * 0.50% * 3 * | 5,162 = | 67 * | \$31.43 | \$2,108 | 22 | | |
| Government | State | (1 + 0.00000) * 0.50% * 3 * | 16 = | 0 * | \$30.76 | \$5 | 0 | | |
| | Local | (1 + 0.00000) * 0.50% * 3 * | 59 = | 1 * | \$31.43 | \$17 | 0 | | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | |
| ALL | Large | (0 + 0.00000) * 0.50% * 3 * | 48 = | 0 * | \$26.09 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 58 = | 0 * | \$31.43 | \$0 | 0 | | |
| Government | State | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$26.09 | \$0 | 0 | | |
| | Local | (0 + 0.00000) * 0.50% * 3 * | 29 = | 0 * | \$32.43 | \$0 | 0 | | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | |
| ALL | Large | (4 + 0.00000) * 0.50% * 3 * | 18 = | 1 * | \$26.75 | \$28 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 0 = | 0 * | \$32.43 | \$0 | 0 | | |
| SECTOR 31. Construction | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | (0 + 0.00000) * 0.50% * 3 * | 55 = | 0 * | \$30.79 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * | 196 = | 0 * | \$32.43 | \$0 | 0 | | |
| | State Gov | (0 + 0.00000) * 0.50% * 3 * | 16 = | 0 * | \$30.79 | \$0 | 0 | | |
| | Local Gov | (0 + 0.00000) * 0.50% * 3 * | 74 = | 0 * | \$33.43 | \$0 | 0 | | |

Table 26

| | | | | | | | |
|------------------------------|----------|-------------------------------------|-------------|---------------|------------|-----------------|------------|
| Hazardous Waste Site Work | Large | (0 + 0.00000) * 0.50% * 3 * 44 = | 0 * \$30.79 | \$0 | 0 | | |
| | Small | (0 + 0.00000) * 0.50% * 3 * 143 = | 0 * \$34.43 | \$0 | 0 | | |
| | State Gd | (0 + 0.00000) * 0.50% * 3 * 1 = | 0 * \$30.79 | \$0 | 0 | | |
| | Local Gd | (0 + 0.00000) * 0.50% * 3 * 201 = | 0 * \$35.43 | \$0 | 0 | | |
| Refractory Brick Restoration | Large | (1 + 0.00000) * 0.50% * 3 * 48 = | 1 * \$30.79 | \$20 | 0 | | |
| | Small | (1 + 0.00000) * 0.50% * 3 * 148 = | 2 * \$36.43 | \$72 | 1 | | |
| TOTALS | | | | 72,329 | 825 | \$22,881 | 275 |

Table 27

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

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

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

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

- * LIMEMPAL = Number of employees requiring a limited medical exam b/c at or > AL after implementation of engineering controls.
- * MEDEXAMADDERM = Number of employees at or above the AL requiring a limited medical exam b/c of dermal "signs and symptoms" after the implementation of engineering controls.
- *%ALABN = Percent of employees exposed at or above the action level 30 days per year (and therefore requiring a limited or comprehensive medical exam who will be found to have abnormal results
- #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost |
|-------------------------------------|-------|--------------|---------------|-----------|------------|----------|---------|
| Sector 1. Electroplating | | | | | | | |
| All | Large | (3 + 0) * | | 0.50%) * | \$241.82 * | 1,885 = | \$6,344 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 3,547 = | \$0 |
| Sector 2. Welding | | | | | | | |
| General Industry | Large | (0 + 0) * | | 0.50%) * | \$241.82 * | 7,911 = | \$0 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 8,864 = | \$0 |
| Maritime | Large | (14 + 0) * | | 0.50%) * | \$241.82 * | 191 = | \$3,140 |
| | Small | (1 + 0) * | | 0.50%) * | \$241.82 * | 108 = | \$127 |
| Construction | Large | (26 + 3) * | | 0.50%) * | \$241.82 * | 269 = | \$9,509 |
| | Small | (3 + 0) * | | 0.50%) * | \$241.82 * | 2,160 = | \$7,621 |
| Government | State | (0 + 0) * | | 0.50%) * | \$241.82 * | 25 = | \$0 |
| | Local | (0 + 0) * | | 0.50%) * | \$241.82 * | 793 = | \$0 |
| Sector 2. Mild Steel Welding | | | | | | | |
| General Industry | Large | (0 + 0) * | | 0.50%) * | \$241.82 * | 10,607 = | \$0 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 10,797 = | \$0 |
| Maritime | Large | (0 + 0) * | | 0.50%) * | \$241.82 * | 412 = | \$0 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 233 = | \$0 |
| Construction | Large | (10 + 0) * | | 0.50%) * | \$241.82 * | 405 = | \$4,760 |
| | Small | (1 + 0) * | | 0.50%) * | \$241.82 * | 3,058 = | \$3,597 |
| SECTOR 3. PAINTING | | | | | | | |
| General Industry AEROSPACE | Large | (46 + 0) * | | 0.50%) * | \$241.82 * | 50 = | \$2,762 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 63 = | \$0 |
| General Industry AUTOBODY | Large | (1 + 0) * | | 0.50%) * | \$241.82 * | 331 = | \$368 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 1,458 = | \$0 |
| COIL COATING | Large | (2 + 0) * | | 0.50%) * | \$241.82 * | 101 = | \$225 |
| | Small | (1 + 0) * | | 0.50%) * | \$241.82 * | 18 = | \$20 |
| Maritime | Large | (2 + 0) * | | 0.50%) * | \$241.82 * | 294 = | \$651 |
| | Small | (1 + 0) * | | 0.50%) * | \$241.82 * | 508 = | \$562 |
| Construction | Large | (2 + 0) * | | 0.50%) * | \$241.82 * | 765 = | \$2,011 |
| | Small | (0 + 0) * | | 0.50%) * | \$241.82 * | 4,067 = | \$0 |
| Governments | State | (0 + 0) * | | 0.50%) * | \$241.82 * | 16 = | \$0 |
| | Local | (9 + 0) * | | 0.50%) * | \$241.82 * | 899 = | \$9,507 |

Table 27

| Variables | | LIMEMPAL | MEDEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | | Cost |
|---|-------|--------------------|---------------|------------|------------|---------|--|------|
| | | | | | | | | |
| SECTOR 4. Producers of Chromates | | | | | | | | |
| ALL | Large | (7 + 0) * | 0.50%) * | \$241.82 * | 2 = | \$18 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 0 = | \$0 | | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | |
| ALL | Large | (9 + 0) * | 0.50%) * | \$241.82 * | 2 = | \$22 | | |
| | Small | (1 + 0) * | 0.50%) * | \$241.82 * | 1 = | \$1 | | |
| SECTOR 6. CCA Producers | | | | | | | | |
| ALL | Large | (2 + 0) * | 0.50%) * | \$241.82 * | 3 = | \$5 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 0 = | \$0 | | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | |
| ALL | Large | (12 + 0) * | 0.50%) * | \$241.82 * | 5 = | \$79 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 0 = | \$0 | | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | |
| ALL | Large | (1 + 0.00378) * | 0.50%) * | \$241.82 * | 87 = | \$110 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 137 = | \$0 | | |
| SECTOR 9. Printing Ink Producers | | | | | | | | |
| ALL | Large | (0 + 0) * | 0.50%) * | \$241.82 * | 3 = | \$0 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 10 = | \$0 | | |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | |
| ALL | Large | (0 + 0) * | 0.50%) * | \$241.82 * | 86 = | \$0 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 42 = | \$0 | | |
| SECTOR 11. Plating Mixture Producers | | | | | | | | |
| ALL | Large | (2 + 0) * | 0.50%) * | \$241.82 * | 4 = | \$12 | | |
| | Small | (1 + 0) * | 0.50%) * | \$241.82 * | 3 = | \$3 | | |
| SECTOR 13. Chromium Metal Producers | | | | | | | | |
| ALL | Large | (8 + 0) * | 0.50%) * | \$241.82 * | 1 = | \$10 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 0 = | \$0 | | |
| SECTOR 14. Iron and Steel Mills | | | | | | | | |
| ALL | Large | (30 + 0.00650) * | 0.50%) * | \$241.82 * | 37 = | \$1,331 | | |
| | Small | (1 + 0.00031) * | 0.50%) * | \$241.82 * | 12 = | \$20 | | |
| Carbon Steel | Large | (1 + 0.00015) * | 0.50%) * | \$241.82 * | 112 = | \$95 | | |
| | Small | (1 + 0.00031) * | 0.50%) * | \$241.82 * | 35 = | \$60 | | |
| SECTOR 14B. Forging Industry | | | | | | | | |
| ALL | Large | (0 + 0.00062) * | 0.50%) * | \$241.82 * | 37 = | \$0 | | |
| | Small | (0 + 0.00015) * | 0.50%) * | \$241.82 * | 34 = | \$0 | | |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | |
| ALL | Large | (19 + 0) * | 0.50%) * | \$241.82 * | 178 = | \$4,073 | | |
| | Small | (5 + 0) * | 0.50%) * | \$241.82 * | 130 = | \$705 | | |
| SECTOR 17. Chromium Dye Producers | | | | | | | | |
| ALL | Large | (0 + 0) * | 0.50%) * | \$241.82 * | 3 = | \$0 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 1 = | \$0 | | |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | |
| ALL | Large | (0 + 0) * | 0.50%) * | \$241.82 * | 0 = | \$0 | | |
| | Small | (1 + 0) * | 0.50%) * | \$241.82 * | 5 = | \$7 | | |
| SECTOR 19. Chemical Distributors | | | | | | | | |
| ALL | Large | (0 + 0) * | 0.50%) * | \$241.82 * | 207 = | \$0 | | |
| | Small | (0 + 0) * | 0.50%) * | \$241.82 * | 1,561 = | \$0 | | |

Table 27

| Variables | | | LIMEMPAL | MEDEXAMADDERM | | %ALABN | MEDCOSTADD | | #PLANTS | | Cost |
|--|-------------|---|----------|---------------|-----------|----------|------------|---------|---------|---------|------|
| | | | | | | | | | | | |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | |
| ALL | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 347 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 703 = | | \$0 | |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | |
| ALL | Large | (| 1 + | 0) * | 0.50%) * | \$241.82 | * | 5 = | | \$6 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 17 = | | \$0 | |
| Fiber, Flat, Container Glass | Large | (| 8 + | 0) * | 0.50%) * | \$241.82 | * | 78 = | | \$765 | |
| | Small | (| 2 + | 0) * | 0.50%) * | \$241.82 | * | 5 = | | \$10 | |
| SECTOR 22. Printing | | | | | | | | | | | |
| ALL | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 92 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 367 = | | \$0 | |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | | | | |
| ALL | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 164 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 0 = | | \$0 | |
| Chromium Catalyst Companies | Large | (| 5 + | 0) * | 0.50%) * | \$241.82 | * | 21 = | | \$129 | |
| | Small | (| 3 + | 0) * | 0.50%) * | \$241.82 | * | 4 = | | \$15 | |
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | |
| ALL | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 6 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 0 = | | \$0 | |
| SECTOR 26. Woodworking | | | | | | | | | | | |
| General Industry | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 175 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 93 = | | \$0 | |
| Maritime | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 38 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 34 = | | \$0 | |
| Construction | Large | (| 1 + | 0) * | 0.50%) * | \$241.82 | * | 1,290 = | | \$1,351 | |
| | Small | (| 1 + | 0) * | 0.50%) * | \$241.82 | * | 5,162 = | | \$5,407 | |
| Government | State | (| 1 + | 0) * | 0.50%) * | \$241.82 | * | 16 = | | \$12 | |
| | Local | (| 1 + | 0) * | 0.50%) * | \$241.82 | * | 59 = | | \$44 | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | |
| ALL | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 48 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 58 = | | \$0 | |
| Government | State | (| 1 + | 1) * | 0.50%) * | \$241.82 | * | 0 = | | \$0 | |
| | Local | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 29 = | | \$0 | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | |
| ALL | Large | (| 2 + | 2) * | 0.50%) * | \$241.82 | * | 18 = | | \$84 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 0 = | | \$0 | |
| SECTOR 31. Construction | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 55 = | | \$0 | |
| | Small | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 196 = | | \$0 | |
| | State Gov't | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 16 = | | \$0 | |
| | Local Gov't | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 74 = | | \$0 | |
| Hazardous Waste Site Work | Large | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 44 = | | \$0 | |
| | Small |) | 0 + | 0) * | 0.50%) * | \$241.82 | * | 143 = | | \$0 | |
| | State Gov't | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 1 = | | \$0 | |
| | Local Gov't | (| 0 + | 0) * | 0.50%) * | \$241.82 | * | 201 = | | \$0 | |

Table 27

| Variables | | LIMEMPAL | MEDEXAMADDERM | %ALABN | MEDCOSTADD | #PLANTS | Cost |
|--|-------|----------|---------------|-----------|------------|---------------|-----------------|
| | | | | | | | |
| Refractory Brick Restoration & Maintenance | Large | (1 + | 0) * | 0.50%) * | \$241.82 * | 48 = | \$52 |
| | Small | (1 + | 0) * | 0.50%) * | \$241.82 * | 148 = | \$0 |
| Total | | | | | | 72,329 | \$65,631 |

Table 28

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

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

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

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

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

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

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

*NONSUPWAGE - Non-supervisory wage rate

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

* #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | TURNOVER | COMPFULLTIME | 1-%BASEMED | #PLANTS | Hours | NONSUPWAGE | Cost | RESPONSES |
|---|-------|------------------|---------------|----------|-------------------|------------|----------|---------|------------|-----------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | |
| ALL | Large | (3 + 0.00000) | * 26.16% | * 4 | * (1 - 100.00%) | * | 1,885 = | 0 * | \$25.49 | \$0 | 0 |
| | Small | (0 + 0.00000) | * 26.16% | * 4 | * (1 - 100.00%) | * | 3,547 = | 0 * | \$25.49 | \$0 | |
| Sector 2. Welding | | | | | | | | | | | |
| General Industry | Large | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 5.00%) | * | 7,911 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 8,864 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | (14 + 2.91848) | * 27.24% | * 4 | * (1 - 5.00%) | * | 191 = | 3,264 * | \$25.10 | \$81,930 | 816 |
| | Small | (1 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 108 = | 114 * | \$25.10 | \$2,873 | 29 |
| Construction | Large | (26 + 2.91848) | * 27.24% | * 4 | * (1 - 5.00%) | * | 269 = | 8,141 * | \$25.10 | \$204,333 | 2,035 |
| | Small | (3 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 2,160 = | 6,868 * | \$25.10 | \$172,381 | 1,717 |
| GOVERNMENT | Local | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 5.00%) | * | 25 = | 0 * | \$25.10 | \$0 | 0 |
| | State | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 793 = | 0 * | \$25.10 | \$0 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | | | | |
| General Industry | Large | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 5.00%) | * | 10,607 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 10,797 = | 0 * | \$25.10 | \$0 | 0 |
| Maritime | Large | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 5.00%) | * | 412 = | 0 * | \$25.10 | \$0 | 0 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 233 = | 0 * | \$25.10 | \$0 | 0 |
| Construction | Large | (10 + 0.00000) | * 27.24% | * 4 | * (1 - 5.00%) | * | 405 = | 4,075 * | \$25.10 | \$102,290 | 1,072 |
| | Small | (1 + 0.00000) | * 27.24% | * 4 | * (1 - 0.00%) | * | 3,058 = | 3,241 * | \$25.10 | \$81,350 | 810 |
| SECTOR 3. PAINTING | | | | | | | | | | | |
| AEROSPACE | Large | (46 + 0.00000) | * 27.24% | * 4 | * (1 - 80.00%) | * | 50 = | 498 * | \$31.68 | \$15,771 | 124 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 50.00%) | * | 63 = | 0 * | \$31.68 | \$0 | 0 |
| Autobody | Large | (1 + 0.00000) | * 27.24% | * 4 | * (1 - 80.00%) | * | 331 = | 66 * | \$31.68 | \$2,103 | 17 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 50.00%) | * | 1,458 = | 0 * | \$31.68 | \$0 | 0 |
| Coil Coating | Large | (2 + 0.00000) | * 27.24% | * 4 | * (1 - 80.00%) | * | 101 = | 41 * | \$31.68 | \$1,285 | 10 |
| | Small | (1 + 0.00000) | * 27.24% | * 4 | * (1 - 50.00%) | * | 18 = | 9 * | \$31.68 | \$292 | 2 |
| Maritime | Large | (2 + 0.00000) | * 27.24% | * 4 | * (1 - 100.00%) | * | 294 = | 0 * | \$31.68 | \$0 | 0 |
| | Small | (1 + 0.00000) | * 27.24% | * 4 | * (1 - 50.00%) | * | 508 = | 253 * | \$31.68 | \$8,029 | 63 |
| Construction | Large | (2 + 0.00000) | * 27.24% | * 4 | * (1 - 100.00%) | * | 765 = | 0 * | \$31.68 | \$0 | 0 |
| | Small | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 100.00%) | * | 4,067 = | 0 * | \$31.68 | \$0 | 0 |
| Government | Local | (0 + 0.00000) | * 27.24% | * 4 | * (1 - 100.00%) | * | 16 = | 0 * | \$31.68 | \$0 | 0 |
| | State | (9 + 0.00000) | * 27.24% | * 4 | * (1 - 100.00%) | * | 899 = | 0 * | \$31.68 | \$0 | 0 |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | |
| ALL | Large | (7 + 0.00000) | * 29.16% | * 4 | * (1 - 50.00%) | * | 2 = | 9 * | \$37.06 | \$328 | 2 |
| | Small | (0 + 0.00000) | * 29.16% | * 4 | * (1 - 0.00%) | * | 0 = | 0 * | \$37.06 | \$0 | 0 |

Table 28

| Variables | | | | LIME/PAL | MEDEX/AMADDERY | TURNOVER | COMP/LLTIME | 1-%BASEMED | | #PLANTS | Hours | NONSUPEWAGE | Cost | RESPONSES | | | | | | | | | |
|---|-------|---|----|----------|----------------|----------|-------------|------------|---|---------|-------|-------------|------|-----------|---------|---|-------|---|-----|---|---------|----------|-----|
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 9 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 2 | = | 0 | * | \$36.12 | \$0 | 0 |
| | Small | (| 1 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 1 | = | 0 | * | \$36.12 | \$0 | 0 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 2 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 3 | = | 0 | * | \$30.60 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 0.00% | * | 0 | = | 0 | * | \$30.60 | \$0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 12 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 5 | = | 0 | * | \$37.06 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 0 | = | 0 | * | \$37.06 | \$0 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 1 | + | 0.00378 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 87 | = | 0 | * | \$27.60 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 137 | = | 0 | * | \$27.60 | \$0 | 0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 80.00% | * | 3 | = | 0 | * | \$27.65 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 10.00% | * | 10 | = | 0 | * | \$27.65 | \$0 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 86 | = | 0 | * | \$30.64 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 42 | = | 0 | * | \$30.64 | \$0 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 2 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 50.00% | * | 4 | = | 6 | * | \$27.50 | \$157 | 1 |
| | Small | (| 1 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 30.00% | * | 3 | = | 2 | * | \$27.50 | \$49 | 0 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 8 | + | 0.00000 |) | * | 26.16% | * | 4 | * | (| 1 | - | 100.00% | * | 1 | = | 0 | * | \$37.17 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 26.16% | * | 4 | * | (| 1 | - | 0.00% | * | 0 | = | 0 | * | \$37.17 | \$0 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | | | | | | | | | | | |
| Alloy Stainless Steel | Large | (| 30 | + | 0.00650 |) | * | 26.16% | * | 4 | * | (| 1 | - | 50.00% | * | 37 | = | 576 | * | \$37.17 | \$21,408 | 144 |
| | Small | (| 1 | + | 0.00031 |) | * | 26.16% | * | 4 | * | (| 1 | - | 30.00% | * | 12 | = | 12 | * | \$37.17 | \$458 | 3 |
| Carbon Steel | Large | (| 1 | + | 0.00015 |) | * | 26.16% | * | 4 | * | (| 1 | - | 50.00% | * | 112 | = | 41 | * | \$37.17 | \$1,529 | 10 |
| | Small | (| 1 | + | 0.00031 |) | * | 26.16% | * | 4 | * | (| 1 | - | 30.00% | * | 35 | = | 36 | * | \$37.17 | \$1,346 | 9 |
| 14B. Alloy Stainless Steel Forging Industry | | | | | | | | | | | | | | | | | | | | | | | |
| Reshaping | Large | (| 0 | + | 0.00062 |) | * | 26.16% | * | 4 | * | (| 1 | - | 50.00% | * | 37 | = | 0 | * | \$37.17 | \$0 | 0 |
| | Small | (| 0 | + | 0.00015 |) | * | 26.16% | * | 4 | * | (| 1 | - | 30.00% | * | 34 | = | 0 | * | \$37.17 | \$0 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 19 | + | 0.00000 |) | * | 26.16% | * | 4 | * | (| 1 | - | 80.00% | * | 178 | = | 705 | * | \$27.12 | \$19,122 | 176 |
| | Small | (| 5 | + | 0.00000 |) | * | 26.16% | * | 4 | * | (| 1 | - | 10.00% | * | 130 | = | 549 | * | \$27.12 | \$14,900 | 137 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 3 | = | 0 | * | \$36.12 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 1 | = | 0 | * | \$36.12 | \$0 | 0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 0 | = | 0 | * | \$39.76 | \$0 | 0 |
| | Small | (| 1 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 100.00% | * | 5 | = | 0 | * | \$39.76 | \$0 | 0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 26.64% | * | 4 | * | (| 1 | - | 0.00% | * | 207 | = | 0 | * | \$28.67 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 26.64% | * | 4 | * | (| 1 | - | 0.00% | * | 1,561 | = | 0 | * | \$28.67 | \$0 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 80.00% | * | 347 | = | 0 | * | \$19.13 | \$0 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 10.00% | * | 703 | = | 0 | * | \$19.13 | \$0 | 0 |
| SECTOR 21. Colored Glass Producers | | | | | | | | | | | | | | | | | | | | | | | |
| ALL | Large | (| 1 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 80.00% | * | 5 | = | 1 | * | \$27.66 | \$32 | 0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 10.00% | * | 17 | = | 0 | * | \$27.66 | \$0 | 0 |
| Fiber, Flat and Container Glass | Large | (| 8 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 80.00% | * | 78 | = | 148 | * | \$27.66 | \$4,081 | 37 |
| | Small | (| 2 | + | 0.00000 |) | * | 29.16% | * | 4 | * | (| 1 | - | 10.00% | * | 5 | = | 9 | * | \$27.66 | \$237 | 2 |

Table 29

| Variables | | | | LIMEMPAL | MEDEXAMADDER | | TURNOVER | COMPFULLCOST | | 1-%BASEMED | | #PLANTS | Cost | |
|---|-------|---|----|----------|--------------|---|----------|--------------|---|------------|---|-------------|------|----------------|
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | | |
| ALL | Large | (| 7 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 50.00% | * | 2 = \$1,005 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 0.00% | * | 0 = \$0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | | | | | |
| ALL | Large | (| 9 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 2 = \$0 |
| | Small | (| 1 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 1 = \$0 |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 2 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 3 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 0.00% | * | 0 = \$0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 12 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 5 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 0 = \$0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 1 | + | 0.00378 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 87 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 137 = \$0 |
| SECTOR 9. Printing Ink Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 80.00% | * | 3 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 10.00% | * | 10 = \$0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 86 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 42 = \$0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 2 | + | 0.00000 |) | * | 0 | * | \$454.63 | * | 1 - 50.00% | * | 4 = \$647 |
| | Small | (| 1 | + | 0.00000 |) | * | 0 | * | \$454.63 | * | 1 - 30.00% | * | 3 = \$201 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 8 | + | 0.00000 |) | * | 26.16% | * | \$454.63 | * | 1 - 100.00% | * | 1 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 26.16% | * | \$454.63 | * | 1 - 0.00% | * | 0 = \$0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | | | | | | | |
| Alloy Stainless Steel | Large | (| 30 | + | 0.00650 |) | * | 26.16% | * | \$454.63 | * | 1 - 50.00% | * | 37 = \$65,452 |
| | Small | (| 1 | + | 0.00031 |) | * | 26.16% | * | \$454.63 | * | 1 - 30.00% | * | 12 = \$1,400 |
| Carbon Steel | Large | (| 1 | + | 0.00015 |) | * | 26.16% | * | \$454.63 | * | 1 - 50.00% | * | 112 = \$4,675 |
| | Small | (| 1 | + | 0.00031 |) | * | 26.16% | * | \$454.63 | * | 1 - 30.00% | * | 35 = \$4,117 |
| 14B. Alloy Stainless Steel Forging Industry | | | | | | | | | | | | | | |
| Reshaping | Large | (| 0 | + | 0.00062 |) | * | 26.16% | * | \$454.63 | * | 1 - 50.00% | * | 37 = \$1 |
| | Small | (| 0 | + | 0.00015 |) | * | 26.16% | * | \$454.63 | * | 1 - 30.00% | * | 34 = \$0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | | | | | | | |
| ALL | Large | (| 19 | + | 0.00000 |) | * | 26.16% | * | \$454.63 | * | 1 - 80.00% | * | 178 = \$80,131 |
| | Small | (| 5 | + | 0.00000 |) | * | 26.16% | * | \$454.63 | * | 1 - 10.00% | * | 130 = \$62,440 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 3 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 1 = \$0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 0 = \$0 |
| | Small | (| 1 | + | 0.00000 |) | * | 29.16% | * | \$454.63 | * | 1 - 100.00% | * | 5 = \$0 |
| SECTOR 19. Chemical Distributors | | | | | | | | | | | | | | |
| ALL | Large | (| 0 | + | 0.00000 |) | * | 26.64% | * | \$454.63 | * | 1 - 0.00% | * | 207 = \$0 |
| | Small | (| 0 | + | 0.00000 |) | * | 26.64% | * | \$454.63 | * | 1 - 0.00% | * | 1,561 = \$0 |

Table 30

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

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

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

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

Cost = Burden hours x NONSUPEWAGE

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

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

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

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

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

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

* #PLANTS = Number of Plants

NONSUPEWAGE = Non-supervisory Wage Rate

| Variables | | LIMEMPAL | MEDEXAMADDERM | TURNOVER Divide 2 | COMPARTTIME | %BASEMED | COMPFULLTIME | 1-%BASEMED | #PLANTS | Hours | NONSUPEWAGE | Cost | Responses |
|--|-------|---|---------------|-------------------------|-------------|----------|--------------|------------|---------|---------|--------------|-------|-----------|
| Sector 1. Electroplating | | | | | | | | | | | | | |
| All | Large | (3 + 0.000000) * (26.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 1,885 = | | | | | | | 2,059 | \$25.49 | \$52,487.70 | 686 | |
| | Small | (0 + 0.000000) * (26.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 3,547 = | | | | | | | | \$25.49 | \$0.00 | 0 | |
| Sector 2. Welding | | | | | | | | | | | | | |
| General Industry | Large | (0 + 0.000000) * (27.24% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 7,911 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| | Small | (0 + 0.000000) * (27.24% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 8,864 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| Maritime | Large | (14 + 2.918484) * (27.24% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 191 = | | | | | | | 1,632 | \$25.10 | \$40,973.52 | 429 | |
| | Small | (1 + 0.000000) * (27.24% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 108 = | | | | | | | 57 | \$25.10 | \$1,436.51 | 14 | |
| Construction | Large | (26 + 2.918484) * (67.80% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 269 = | | | | | | | 10,133 | \$25.10 | \$254,328.83 | 2,666 | |
| | Small | (3 + 0.000000) * (67.80% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 2,160 = | | | | | | | 8,547 | \$25.10 | \$214,526.81 | 2,137 | |
| Government | State | (0 + 0.000000) * (67.80% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 25 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| | Local | (0 + 0.000000) * (67.80% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 793 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| Sector 2. Mild Steel Welding | | | | | | | | | | | | | |
| General Industry | Large | (0 + 0.000000) * (27.74% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 10,607 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| | Small | (0 + 0.000000) * (27.74% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 10,797 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| Maritime | Large | (0 + 0.000000) * (27.74% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 412 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| | Small | (0 + 0.000000) * (27.74% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 233 = | | | | | | | 0 | \$25.10 | \$0.00 | 0 | |
| Construction | Large | (10 + 0.000000) * (67.80% / 2) * ((3 * 5.00%) + (4 * (1 - 5.00%))) * 405 = | | | | | | | 5,072 | \$25.10 | \$127,311.21 | 1,335 | |
| | Small | (1 + 0.000000) * (67.80% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 3,058 = | | | | | | | 4,033 | \$25.10 | \$101,239.90 | 1,008 | |
| SECTOR 3. PAINTING | | | | | | | | | | | | | |
| General Industry | | | | | | | | | | | | | |
| AEROSPACE | Large | (46 + 0.000000) * (27.74% / 2) * ((3 * 80.00%) + (4 * (1 - 80.00%))) * 50 = | | | | | | | 269 | \$31.68 | \$8,515.44 | 317 | |
| | Small | (0 + 0.000000) * (27.74% / 2) * ((3 * 50.00%) + (4 * (1 - 50.00%))) * 63 = | | | | | | | 0 | \$31.68 | \$0.00 | 0 | |
| Auto Body | Large | (1 + 0.000000) * (27.74% / 2) * ((3 * 80.00%) + (4 * (1 - 80.00%))) * 331 = | | | | | | | 34 | \$31.68 | \$1,080.43 | 42 | |
| | Small | (0 + 0.000000) * (27.74% / 2) * ((3 * 50.00%) + (4 * (1 - 50.00%))) * 1,458 = | | | | | | | 0 | \$31.68 | \$0.00 | 0 | |
| Coil Coating | Large | (2 + 0.000000) * (27.74% / 2) * ((3 * 80.00%) + (4 * (1 - 80.00%))) * 101 = | | | | | | | 21 | \$31.68 | \$673.73 | 26 | |
| | Small | (1 + 0.000000) * (27.74% / 2) * ((3 * 50.00%) + (4 * (1 - 50.00%))) * 18 = | | | | | | | 5 | \$31.68 | \$154.77 | 2 | |
| Maritime | Large | (2 + 0.000000) * (27.74% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 294 = | | | | | | | 1 | \$31.68 | \$24.14 | 75 | |
| | Small | (1 + 0.000000) * (27.74% / 2) * ((3 * 50.00%) + (4 * (1 - 50.00%))) * 508 = | | | | | | | 129 | \$31.68 | \$4,094.04 | 65 | |
| Construction | Large | (2 + 0.000000) * (67.80% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 765 = | | | | | | | 2 | \$31.68 | \$70.03 | 564 | |
| | Small | (0 + 0.000000) * (67.80% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 4,067 = | | | | | | | 0 | \$31.68 | \$0.00 | 0 | |
| Government | State | (0 + 0.000000) * (67.80% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 16 = | | | | | | | 0 | \$31.68 | \$0.00 | 0 | |
| | Local | (9 + 0.000000) * (67.80% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 899 = | | | | | | | 9 | \$31.68 | \$281.78 | 2,666 | |
| SECTOR 4. Producers of Chromates | | | | | | | | | | | | | |
| ALL | Large | (7 + 0.000000) * (29.16% / 2) * ((3 * 50.00%) + (4 * (1 - 50.00%))) * 2 = | | | | | | | 6 | \$37.06 | \$222.93 | 2 | |
| | Small | (0 + 0.000000) * (29.16% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 0 = | | | | | | | 0 | \$37.00 | \$0.00 | 0 | |
| SECTOR 5. Chromate Pigment Producers | | | | | | | | | | | | | |
| ALL | Large | (9 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 2 = | | | | | | | 4 | \$36.12 | \$147.98 | 3 | |
| | Small | (1 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 1 = | | | | | | | 0 | \$36.12 | \$16.44 | 0 | |
| SECTOR 6. CCA Producers | | | | | | | | | | | | | |
| ALL | Large | (2 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 3 = | | | | | | | 1 | \$30.60 | \$22.81 | 1 | |
| | Small | (0 + 0.000000) * (29.16% / 2) * ((3 * 0.00%) + (4 * (1 - 0.00%))) * 0 = | | | | | | | 0 | \$30.60 | \$0.00 | 0 | |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | | | | | | |
| ALL | Large | (12 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 5 = | | | | | | | 5 | \$37.06 | \$202.44 | 9 | |
| | Small | (0 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 0 = | | | | | | | 0 | \$37.06 | \$0.00 | 0 | |
| SECTOR 8. Paint and Coating Producers | | | | | | | | | | | | | |
| ALL | Large | (1 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 87 = | | | | | | | 0 | \$27.60 | \$12.56 | 13 | |
| | Small | (0 + 0.000000) * (29.16% / 2) * ((3 * 100.00%) + (4 * (1 - 100.00%))) * 137 = | | | | | | | 0 | \$27.60 | \$0.00 | 0 | |

Table 30

| SECTOR 31. Construction | | | | | | | | |
|---|-------------|--|--------------|---------------|---------------|---------------------|---------------|--|
| Industrial Rehabilitation & Maintenance | Large | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 55 = | 0 | \$30.79 | \$0.00 | 0 | |
| | Small | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 196 = | 0 | \$30.79 | \$0.00 | 0 | |
| | State Gov't | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 16 = | 0 | \$30.79 | \$0.00 | 0 | |
| | Local Gov't | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 74 = | 0 | \$30.79 | \$0.00 | 0 | |
| Hazardous Waste Site Work | Large | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 44 = | 0 | \$30.79 | \$0.00 | 0 | |
| | Small | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 143 = | 0 | \$30.79 | \$0.00 | 0 | |
| | State Gov't | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 1 = | 0 | \$30.79 | \$0.00 | 0 | |
| Refractory Brick Restoration | Local Gov't | $(0 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 201 = | 0 | \$30.79 | \$0.00 | 0 | |
| | Large | $(1 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 48 = | 29 | \$30.79 | \$903.94 | 14 | |
| | Small | $(1 + 0.000000) * (67.80\% / 2) * ((3 * 50.00\%) + (4 * (1 - 50.00\%))) *$ | 148 = | 89 | \$30.79 | \$2,749.93 | 44 | |
| | | | Total | 72,329 | 37,048 | \$962,053.77 | 14,827 | |

Table 31

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

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

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

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

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

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

TURNOVER/2 = Represents the frequency of termination exams.

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

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

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

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

* #PLANTS = Number of Plants

| Variables | | LIMEMPAL | MEDEXAMADDERM | TURNOVER Divide 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1-%BASEMED | #PLANTS | COST |
|--|-------|-------------------|------------------|---|-------------|----------|--------------|--------------|---------|------|
| Sector 1. Electroplating | | | | | | | | | | |
| All | Large | (3 + 0.000000) | * (26.16% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 1,885 | = \$ | 155,712.17 | | |
| | Small | (0 + 0.000000) | * (26.16% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 3,547 | = \$ | - | | |
| Sector 2. Welding | | | | | | | | | | |
| General Industry | Large | (0 + 0.000000) | * (27.24% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 7,911 | = \$ | - | | |
| | Small | (0 + 0.000000) | * (27.24% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 8,864 | = \$ | - | | |
| Maritime | Large | (14 + 2.918484) | * (27.24% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 191 | = \$ | 185,169.42 | | |
| | Small | (1 + 0.000000) | * (27.24% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 108 | = \$ | 6,492.38 | | |
| Construction | Large | (26 + 2.918484) | * (67.80% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 269 | = \$ | 1,149,397.80 | | |
| | Small | (3 + 0.000000) | * (67.80% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 2,160 | = \$ | 969,566.39 | | |
| Government | State | (0 + 0.000000) | * (67.80% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 25 | = \$ | - | | |
| | Local | (0 + 0.000000) | * (67.80% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 793 | = \$ | - | | |
| Sector 2. Mild Steel Welding | | | | | | | | | | |
| General Industry | Large | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 10,607 | = \$ | - | | |
| | Small | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 10,797 | = \$ | - | | |
| Maritime | Large | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 412 | = \$ | - | | |
| | Small | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 233 | = \$ | - | | |
| Construction | Large | (10 + 0.000000) | * (67.80% / 2) | * ((\$227 * 5.00%) + (\$454 * (1 - 5.00%)) | * | 405 | = \$ | 575,371.70 | | |
| | Small | (1 + 0.000000) | * (67.80% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 3,058 | = \$ | 457,559.64 | | |
| SECTOR 3. PAINTING | | | | | | | | | | |
| General Industry | | | | | | | | | | |
| AEROSPACE | Large | (46 + 0.000000) | * (27.74% / 2) | * ((\$227 * 80.00%) + (\$454 * (1 - 80.00%)) | * | 50 | = \$ | 29,915.07 | | |
| | Small | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 50.00%) + (\$454 * (1 - 50.00%)) | * | 63 | = \$ | - | | |
| Auto Body | Large | (1 + 0.000000) | * (27.74% / 2) | * ((\$227 * 80.00%) + (\$454 * (1 - 80.00%)) | * | 331 | = \$ | 3,857.45 | | |
| | Small | (0 + 0.000000) | * (27.74% / 2) | * ((\$227 * 50.00%) + (\$454 * (1 - 50.00%)) | * | 1,458 | = \$ | - | | |
| Coil Coating | Large | (2 + 0.000000) | * (27.74% / 2) | * ((\$227 * 80.00%) + (\$454 * (1 - 80.00%)) | * | 101 | = \$ | 2,389.49 | | |
| | Small | (1 + 0.000000) | * (27.74% / 2) | * ((\$227 * 50.00%) + (\$454 * (1 - 50.00%)) | * | 18 | = \$ | 547.01 | | |
| Maritime | Large | (2 + 0.000000) | * (27.74% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 294 | = \$ | 57.62 | | |
| | Small | (1 + 0.000000) | * (27.74% / 2) | * ((\$227 * 50.00%) + (\$454 * (1 - 50.00%)) | * | 508 | = \$ | 14,653.66 | | |
| Construction | Large | (2 + 0.000000) | * (67.80% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 765 | = \$ | 167.18 | | |
| | Small | (0 + 0.000000) | * (67.80% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 4,067 | = \$ | - | | |
| Government | State | (0 + 0.000000) | * (67.80% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 16 | = \$ | - | | |
| | Local | (9 + 0.000000) | * (67.80% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 899 | = \$ | 672.72 | | |
| SECTOR 4. Producers of Chromates | | | | | | | | | | |
| ALL | Large | (7 + 0.000000) | * (29.16% / 2) | * ((\$227 * 50.00%) + (\$454 * (1 - 50.00%)) | * | 2 | = \$ | 622.23 | | |
| | Small | (0 + 0.000000) | * (29.16% / 2) | * ((\$227 * 0.00%) + (\$454 * (1 - 0.00%)) | * | 0 | = \$ | - | | |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | | | |
| ALL | Large | (9 + 0.000000) | * (29.16% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 2 | = \$ | 309.88 | | |
| | Small | (1 + 0.000000) | * (29.16% / 2) | * ((\$227 * 100.00%) + (\$454 * (1 - 100.00%)) | * | 1 | = \$ | 34.43 | | |

Table 31

| Variables | | LIMEMPAL | MEDEXAMADDERM | TURNOVER Divide 2 | COMPARTCOST | %BASEMED | COMPFULLCOST | 1-%BASEMED | #PLANTS | COST | |
|--|-------------|------------------|---------------|-------------------------|-------------|---|--------------|------------|--------------|---------------|---------------------|
| SECTOR 25. Refractory Brick Producers | | | | | | | | | | | |
| ALL | Large | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 80.00%) + (\$454 * (1 - 80.00%))) | * | 6 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 10.00%) + (\$454 * (1 - 10.00%))) | * | 0 = | \$ | - | |
| SECTOR 26. Woodworking | | | | | | | | | | | |
| General Industry | Large | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 25.00%) + (\$454 * (1 - 25.00%))) | * | 175 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 0.00%) + (\$454 * (1 - 0.00%))) | * | 93 = | \$ | - | |
| Maritime | Large | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 25.00%) + (\$454 * (1 - 25.00%))) | * | 38 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 0.00%) + (\$454 * (1 - 0.00%))) | * | 34 = | \$ | - | |
| Construction | Large | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 1,290 = | \$ | 85,955.20 | |
| | Small | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 5,162 = | \$ | 343,951.69 | |
| Government | State | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 16 = | \$ | 804.54 | |
| | Local | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 59 = | \$ | 2,845.89 | |
| SECTOR 27. Solid Waste Incineration | | | | | | | | | | | |
| ALL | Large | (0 + 0.000000) | * | (46.92% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 48 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (46.92% / 2) | * | ((\$227 * 30.00%) + (\$454 * (1 - 30.00%))) | * | 58 = | \$ | - | |
| Government | State | (1 + 0.000000) | * | (46.92% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 0 = | \$ | 23.31 | |
| | Local | (0 + 0.000000) | * | (46.92% / 2) | * | ((\$227 * 30.00%) + (\$454 * (1 - 30.00%))) | * | 29 = | \$ | - | |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | | | | |
| ALL | Large | (2 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 18 = | \$ | 1,057.15 | |
| | Small | (0 + 0.000000) | * | (26.16% / 2) | * | ((\$227 * 30.00%) + (\$454 * (1 - 30.00%))) | * | 0 = | \$ | - | |
| SECTOR 31. Construction | | | | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 55 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 196 = | \$ | - | |
| | State Gov't | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 16 = | \$ | - | |
| | Local Gov't | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 74 = | \$ | - | |
| Hazardous Waste Site Work | Large | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 44 = | \$ | - | |
| | Small | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 143 = | \$ | - | |
| | State Gov't | (0 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 1 = | \$ | - | |
| Refractory Brick Restoration | Large | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 48 = | \$ | 3,313.76 | |
| | Small | (1 + 0.000000) | * | (67.80% / 2) | * | ((\$227 * 50.00%) + (\$454 * (1 - 50.00%))) | * | 148 = | \$ | 10,115.87 | |
| | | | | | | | | | Total | 72,329 | \$ 4,122,494 |

Table 32

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

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

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

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

| | | POTEEMP | MEDRECORD | #PLANTS | Hours | CLWAGE | Cost | Responses |
|---|-------|---------|-----------|----------|---------|-----------|-------------|-----------|
| Sector 1. Electroplating | | | | | | | | |
| All | Large | 6 * | 0.08 * | 1,885 = | 840 * | \$18.19 = | \$15,268.39 | 10494.052 |
| | Small | 1 * | 0.08 * | 3,547 = | 263 * | \$18.19 = | \$4,787.65 | 3290.5807 |
| Sector 2. Welding | | | | | | | | |
| General Industry | Large | 2 * | 0.08 * | 7,911 = | 1,231 * | \$17.90 = | \$22,047.48 | 15392.153 |
| | Small | 0 * | 0.08 * | 8,864 = | 0 * | \$17.90 = | \$0.00 | 0 |
| Maritime | Large | 18 * | 0.08 * | 191 = | 282 * | \$17.90 = | \$5,048.25 | 3524.3716 |
| | Small | 1 * | 0.08 * | 108 = | 8 * | \$17.90 = | \$150.47 | 105.04974 |
| Construction | Large | 50 * | 0.08 * | 269 = | 1,070 * | \$17.90 = | \$19,150.56 | 13369.709 |
| | Small | 5 * | 0.08 * | 2,160 = | 840 * | \$17.90 = | \$15,047.16 | 10504.974 |
| Government | State | 2 * | 0.08 * | 25 = | 4 * | \$17.90 = | \$70.49 | 49.212493 |
| | Local | 0 * | 0.08 * | 793 = | 0 * | \$17.90 = | \$0.00 | 0 |
| Sector 2. Mild Steel Welding | | | | | | | | |
| General Industry | Large | 1 * | 0.08 * | 10,607 = | 825 * | \$17.90 = | \$14,780.11 | 10318.535 |
| | Small | 0 * | 0.08 * | 10,797 = | 0 * | \$17.90 = | \$0.00 | 0 |
| Maritime | Large | 0 * | 0.08 * | 412 = | 0 * | \$17.90 = | \$0.00 | 0 |
| | Small | 1 * | 0.08 * | 233 = | 18 * | \$17.90 = | \$325.34 | 227.13458 |
| Construction | Large | 18 * | 0.08 * | 405 = | 598 * | \$17.90 = | \$10,714.66 | 7480.2989 |
| | Small | 2 * | 0.08 * | 3,058 = | 476 * | \$17.90 = | \$8,521.30 | 5949.0332 |
| SECTOR 3. PAINTING | | | | | | | | |
| GENERAL INDUSTRY | | | | | | | | |
| Aerospace | Large | 47 * | 0.08 * | 50 = | 186 * | \$22.51 = | \$4,196.98 | 2330.2829 |
| | Small | 1 * | 0.08 * | 63 = | 5 * | \$22.51 = | \$103.63 | 57.53785 |
| Auto Body | Large | 12 * | 0.08 * | 331 = | 317 * | \$17.90 = | \$5,672.18 | 3959.9579 |
| | Small | 1 * | 0.08 * | 1,458 = | 107 * | \$17.90 = | \$1,921.03 | 1341.1396 |
| Coil Coating | Large | 2 * | 0.08 * | 101 = | 15 * | \$17.90 = | \$266.64 | 186.15187 |
| | Small | 1 * | 0.08 * | 18 = | 1 * | \$17.90 = | \$24.24 | 16.922897 |
| Maritime | Large | 3 * | 0.08 * | 294 = | 65 * | \$22.51 = | \$1,453.79 | 807.18704 |
| | Small | 1 * | 0.08 * | 508 = | 37 * | \$22.51 = | \$837.86 | 465.20125 |
| Construction | Large | 2 * | 0.08 * | 765 = | 133 * | \$22.51 = | \$2,995.10 | 1662.9645 |
| | Small | 1 * | 0.08 * | 4,067 = | 236 * | \$22.51 = | \$5,307.61 | 2946.9326 |
| Government | State | 9 * | 0.08 * | 16 = | 11 * | \$17.90 = | \$203.50 | 142.07178 |
| | Local | 1 * | 0.08 * | 899 = | 45 * | \$17.90 = | \$804.50 | 561.65191 |
| SECTOR 4. Producers of Chromates | | | | | | | | |
| All | Large | 7 * | 0.08 * | 2 = | 1 * | \$26.43 = | \$32.07 | 15.167153 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$26.43 = | \$0.00 | 0 |

Table 32

| | | POTEXEMP | MEDRECORD | #PLANTS | Hours | CLWAGE | Cost | Responses |
|---|-------|----------|-----------|---------|-------|-----------|------------|-----------|
| SECTOR 5. Chromate Pigment Producers | | | | | | | | |
| All | Large | 25 * | 0.08 * | 2 = | 4 * | \$26.43 = | \$104.43 | 49.393048 |
| | Small | 3 * | 0.08 * | 1 = | 0 * | \$26.43 = | \$6.53 | 3.0870655 |
| SECTOR 6. CCA Producers | | | | | | | | |
| All | Large | 3 * | 0.08 * | 3 = | 1 * | \$21.81 = | \$11.41 | 6.5373192 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$21.81 = | \$0.00 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | |
| All | Large | 27 * | 0.08 * | 5 = | 11 * | \$26.43 = | \$297.77 | 140.83785 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$26.43 = | \$0.00 | 0 |
| SECTOR 8. Paint and Coating Producers | | | | | | | | |
| All | Large | 5 * | 0.08 * | 87 = | 36 * | \$19.69 = | \$716.80 | 455.01458 |
| | Small | 2 * | 0.08 * | 137 = | 23 * | \$19.69 = | \$450.56 | 286.00916 |
| SECTOR 9. Printing Ink Producers | | | | | | | | |
| All | Large | 0 * | 0.08 * | 3 = | 0 * | \$19.72 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 10 = | 0 * | \$19.72 = | \$0.00 | 0 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | |
| All | Large | 0 * | 0.08 * | 86 = | 0 * | \$21.84 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 42 = | 0 * | \$21.84 = | \$0.00 | 0 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | |
| All | Large | 2 * | 0.08 * | 4 = | 1 * | \$19.61 = | \$15.31 | 9.7584957 |
| | Small | 1 * | 0.08 * | 3 = | 0 * | \$19.61 = | \$6.80 | 4.3371092 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | |
| All | Large | 13 * | 0.08 * | 1 | 1 * | \$26.51 | \$27.57 | 13 |
| | Small | 0 * | 0.08 * | 0 | 0 * | \$26.51 | \$0.00 | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | |
| All | Large | 40 * | 0.08 * | 37 = | 119 * | \$26.51 = | \$3,167.36 | 1493.4539 |
| | Small | 1 * | 0.08 * | 12 = | 1 * | \$26.51 = | \$35.65 | 16.808154 |
| Carbon Steel | Large | 10 * | 0.08 * | 112 = | 88 * | \$26.51 = | \$2,333.85 | 1100.4397 |
| | Small | 1 * | 0.08 * | 35 = | 4 * | \$26.51 = | \$104.84 | 49.435747 |
| SECTOR 14B. Forging Industry | | | | | | | | |
| All | Large | 3 * | 0.08 * | 37 = | 8 * | \$26.51 = | \$218.08 | 102.82635 |
| | Small | 0 * | 0.08 * | 34 = | 0 * | \$26.51 = | \$0.00 | 0 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | |
| All | Large | 27 * | 0.08 * | 178 = | 385 * | \$19.34 = | \$7,445.72 | 4812.6137 |
| | Small | 5 * | 0.08 * | 130 = | 56 * | \$19.34 = | \$1,083.01 | 700.01654 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | |
| All | Large | 0 * | 0.08 * | 3 = | 0 * | \$25.76 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 1 = | 0 * | \$25.76 = | \$0.00 | 0 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | |
| All | Large | 0 * | 0.08 * | 0 = | 0 * | \$28.36 = | \$0.00 | 0 |
| | Small | 3 * | 0.08 * | 5 = | 1 * | \$28.36 = | \$36.86 | 16.250521 |
| SECTOR 19. Chemical Distributors | | | | | | | | |
| All | Large | 0 * | 0.08 * | 207 = | 0 * | \$20.44 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 1,561 = | 0 * | \$20.44 = | \$0.00 | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | |
| All | Large | 0 * | 0.08 * | 347 = | 0 * | \$13.64 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 703 = | 0 * | \$13.64 = | \$0.00 | 0 |

Table 32

| | | POTEXEMP | MEDRECORD | #PLANTS | Hours | CLWAGE | Cost | Responses |
|--|-------------|----------|-----------|---------------|--------------|-----------|----------------|----------------|
| SECTOR 21. Colored Glass Producers | | | | | | | | |
| All | Large | 1 * | 0.08 * | 5 = | 0 * | \$14.24 = | \$5.58 | 4.9027183 |
| | Small | 0 * | 0.08 * | 17 = | 0 * | \$14.24 = | \$0.00 | 0 |
| Fiber, Flat, and Container Glass | Large | 10 * | 0.08 * | 78 = | 62 * | \$14.24 = | \$880.40 | 772.99525 |
| | Small | 2 * | 0.08 * | 5 = | 1 * | \$14.24 = | \$9.31 | 8.1711971 |
| SECTOR 22. Printing | | | | | | | | |
| All | Large | 0 * | 0.08 * | 92 = | 0 * | \$14.24 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 367 = | 0 * | \$14.24 = | \$0.00 | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | |
| All | Large | 1 * | 0.08 * | 164 = | 13 * | \$22.21 = | \$294.65 | 165.84795 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$21.97 = | \$0.00 | 0 |
| Chromium Catalyst Companies | Large | 10 * | 0.08 * | 21 = | 17 * | \$21.97 = | \$375.59 | 213.66914 |
| | Small | 5 * | 0.08 * | 4 = | 2 * | \$21.97 = | \$35.77 | 20.349442 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | |
| All | Large | 0 * | 0.08 * | 6 = | 0 * | \$17.53 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$17.53 = | \$0.00 | 0 |
| SECTOR 26. Woodworking | | | | | | | | |
| General Industry | Large | 1 * | 0.08 * | 175 = | 13 * | \$21.93 = | \$286.16 | 163.14101 |
| | Small | 0 * | 0.08 * | 93 = | 0 * | \$21.93 = | \$0.00 | 0 |
| Maritime | Large | 0 * | 0.08 * | 38 = | 0 * | \$21.93 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 34 = | 0 * | \$21.93 = | \$0.00 | 0 |
| Construction | Large | 3 * | 0.08 * | 1,290 = | 268 * | \$21.93 = | \$5,878.44 | 3351.3807 |
| | Small | 1 * | 0.08 * | 5,162 = | 358 * | \$21.93 = | \$7,843.19 | 4471.5086 |
| Government | State | 1 * | 0.08 * | 16 = | 1 * | \$21.93 = | \$17.80 | 10.147984 |
| | Local | 1 * | 0.08 * | 59 = | 3 * | \$21.93 = | \$64.35 | 36.688867 |
| SECTOR 27. Solid Waste Incineration | | | | | | | | |
| All | Large | 0 * | 0.08 * | 48 = | 0 * | \$18.73 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 58 = | 0 * | \$18.73 = | \$0.00 | 0 |
| Government | State | 0 * | 0.08 * | 0 = | 0 * | \$21.93 = | \$0.00 | 0 |
| | Local | 0 * | 0.08 * | 29 = | 0 * | \$21.93 = | \$0.00 | 0 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | |
| All | Large | 2 * | 0.08 * | 18 = | 3 * | \$19.08 = | \$52.88 | 34.641633 |
| | Small | 0 * | 0.08 * | 0 = | 0 * | \$19.08 = | \$0.00 | 0 |
| SECTOR 31. Construction | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0 * | 0.08 * | 55 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 196 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | State Gov't | 0 * | 0.08 * | 16 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | Local Gov't | 0 * | 0.08 * | 74 = | 0 * | \$21.96 = | \$0.00 | 0 |
| Hazardous Waste Site Work | Large | 0 * | 0.08 * | 44 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | Small | 0 * | 0.08 * | 143 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | State Gov't | 0 * | 0.08 * | 1 = | 0 * | \$21.96 = | \$0.00 | 0 |
| Refractory Brick Restoration | Local Gov't | 0 * | 0.08 * | 201 = | 0 * | \$21.96 = | \$0.00 | 0 |
| | Large | 9 * | 0.08 * | 48 = | 34 * | \$21.96 = | \$749.13 | 426.40096 |
| | Small | 1 * | 0.08 * | 148 = | 10 * | \$21.96 = | \$230.29 | 131.07881 |
| Total | | | | 72,329 | 9,142 | | 172,517 | 114,269 |

Table 33

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

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

HOURS = RECTIME * EMPEXP * #PLANTS

COST = Hours x CLWAGE

RECTIME = Time, 0.08 hour per record for exposed workers

EMPEXP = Exposed employees to chromium or employees exposed dermally

#PLANTS = Number of Plants

CLWAGE = Clerical wage Rate

| | | RECTIME | EMPEXP | #PLANTS | HOURS | CLWAGE | COST | Responses |
|--|-------|---------|--------|----------|-------|---------|------------|-----------|
| Sector 1. Electroplating | | | | | | | | |
| ALL | Large | 0.08 * | 14 * | 1,885 = | 2,099 | \$18.19 | \$ 38,171 | 26,235 |
| | Small | 0.08 * | 3 * | 3,547 = | 790 | \$18.19 | \$ 14,363 | 9,872 |
| Sector 2. Welding | | | | | | | | |
| ALL | Large | 0.08 * | 3 * | 11,423 = | 2,667 | \$17.90 | \$ 47,752 | 33,338 |
| | Small | 0.08 * | 3 * | 14,088 = | 3,289 | \$17.90 | \$ 58,895 | 41,117 |
| Sector 2B. Mild Steel Welding | | | | | | | | |
| | Large | 0.08 * | 4 * | 11,742 | 3,655 | \$17.90 | \$ 65,448 | 45,692 |
| | Small | 0.08 * | 1 * | 11,967 | 931 | \$17.90 | \$ 16,676 | 11,642 |
| SECTOR 3. PAINTING | | | | | | | | |
| ALL | Large | 0.08 * | 44 * | 1,557 = | 5,537 | \$22.51 | \$ 124,656 | 69,213 |
| | Small | 0.08 * | 2 * | 7,013 = | 848 | \$22.51 | \$ 19,091 | 10,600 |
| SECTOR 4. Producers of Chromates | | | | | | | | |
| ALL | Large | 0.08 * | 78 * | 2 = | 13 | \$26.43 | \$ 344 | 163 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$26.43 | \$ - | 0 |
| SECTOR 5. Chromate Pigment Procedures | | | | | | | | |
| ALL | Large | 0.08 * | 25 * | 2 = | 4 | \$26.43 | \$ 104 | 49 |
| | Small | 0.08 * | 3 * | 1 = | 0 | \$26.43 | \$ 7 | 3 |
| SECTOR 6. CCA Producers | | | | | | | | |
| ALL | Large | 0.08 * | 8 * | 3 = | 2 | \$21.81 | \$ 34 | 20 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$21.81 | \$ 0 | 0 |
| SECTOR 7. Chromium Catalyst Producers | | | | | | | | |
| ALL | Large | 0.08 * | 66 * | 5 = | 27 | \$26.43 | \$ 722 | 341 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$26.43 | \$ 0 | 0 |

Table 33

| | | RECTIME | EMPEXP | #PLANTS | HOURS | CLWAGE | COST | Responses |
|--|-------|---------|--------|---------|-------|------------|---------|-----------|
| SECTOR 8. Paint and Coating Producers | | | | | | | | |
| ALL | Large | 0.08 * | 19 * | 87 = | 131 | \$19.69 \$ | 2,580 | 1,638 |
| | Small | 0.08 * | 8 * | 137 = | 92 | \$19.69 \$ | 1,802 | 1,144 |
| SECTOR 9. Printing Ink Producers | | | | | | | | |
| ALL | Large | 0.08 * | 20 * | 3 = | 5 | \$19.72 \$ | 95 | 60 |
| | Small | 0.08 * | 20 * | 10 = | 16 | \$19.72 \$ | 318 | 202 |
| SECTOR 10. Plastic Colorant Producers and Users | | | | | | | | |
| ALL | Large | 0.08 * | 6 * | 86 = | 39 | \$21.84 \$ | 844 | 483 |
| | Small | 0.08 * | 1 * | 42 = | 3 | \$21.84 \$ | 69 | 39 |
| SECTOR 11. Plating Mixture Producers | | | | | | | | |
| ALL | Large | 0.08 * | 13 * | 4 = | 4 | \$19.61 \$ | 87 | 55 |
| | Small | 0.08 * | 3 * | 3 = | 1 | \$19.61 \$ | 14 | 9 |
| SECTOR 13. Chromium Metal Producers | | | | | | | | |
| ALL | Large | 0.08 * | 47 * | 1 = | 4 | \$26.51 \$ | 100 | 47 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$26.51 \$ | - | 0 |
| SECTOR 14. Iron and Steel Mills | | | | | | | | |
| ALL | Large | 0.08 * | 46 * | 2,124 = | 7,885 | \$26.51 \$ | 209,046 | 98,568 |
| | Small | 0.08 * | 3 * | 24 = | 5 | \$26.51 \$ | 143 | 67 |
| SECTOR 15. Iron and Steel Foundries | | | | | | | | |
| ALL | Large | 0.08 * | 115 * | 178 = | 1,643 | \$19.34 \$ | 31,768 | 20,534 |
| | Small | 0.08 * | 115 * | 130 = | 1,195 | \$19.34 \$ | 23,104 | 14,934 |
| SECTOR 17. Chromium Dye Producers | | | | | | | | |
| ALL | Large | 0.08 * | 32 * | 3 = | 8 | \$25.76 \$ | 193 | 94 |
| | Small | 0.08 * | 7 * | 1 = | 1 | \$25.76 \$ | 14 | 7 |
| SECTOR 18. Chromium Sulfate Producers | | | | | | | | |
| ALL | Large | 0.08 * | 0 * | 0 = | 0 | \$28.36 \$ | - | 0 |
| | Small | 0.08 * | 2 * | 5 = | 1 | \$28.36 \$ | 25 | 11 |
| SECTOR 19. Chemical Distributors | | | | | | | | |
| ALL | Large | 0.08 * | 0 * | 207 = | 0 | \$20.44 \$ | - | |
| | Small | 0.08 * | 0 * | 1,561 = | 0 | \$20.44 \$ | - | 0 |
| SECTOR 20. Textile Dyeing | | | | | | | | |
| ALL | Large | 0.08 * | 58 * | 347 = | 1,618 | \$13.64 \$ | 22,065 | 20,224 |
| | Small | 0.08 * | 2 * | 703 = | 104 | \$13.64 \$ | 1,422 | 1,303 |

Table 33

| | | RECTIME | EMPEXP | #PLANTS | HOURS | CLWAGE | COST | Responses |
|--|-------------|---------|--------|---------|-------|------------|-------|-----------|
| SECTOR 21. Colored Glass Producers | | | | | | | | |
| ALL | Large | 0.08 * | 5 * | 83 = | 30 | \$14.24 \$ | 428 | 376 |
| | Small | 0.08 * | 1 * | 22 = | 2 | \$14.24 \$ | 22 | 20 |
| SECTOR 22. Printing | | | | | | | | |
| ALL | Large | 0.08 * | 43 * | 92 = | 317 | \$14.24 \$ | 4,513 | 3,962 |
| | Small | 0.08 * | 3 * | 0 = | 0 | \$14.24 \$ | - | 0 |
| SECTOR 24. Chromium Catalyst Users | | | | | | | | |
| ALL | Large | 0.08 * | 30 * | 164 = | 398 | \$22.21 \$ | 8,839 | 4,975 |
| | Small | 0.08 * | 15 * | 0 = | 0 | \$22.21 \$ | - | |
| Catalyst Service Companies | Large | 0.08 * | 1 * | 21 | 2 | \$22.21 \$ | 38 | 21 |
| | Small | 0.08 * | 0 * | 0 | 0 | \$22.21 \$ | - | 0 |
| SECTOR 25. Refractory Brick Producers | | | | | | | | |
| ALL | Large | 0.08 * | 12 * | 6 = | 6 | \$17.53 \$ | 97 | 69 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$17.53 \$ | - | |
| SECTOR 26. Woodworking | | | | | | | | |
| ALL | Large | 0.08 * | 0 * | 1,519 = | 0 | \$21.93 \$ | - | 0 |
| | Small | 0.08 * | 0 * | 5,348 = | 0 | \$21.93 \$ | - | 0 |
| SECTOR 27. Solid Waste Incarnation | | | | | | | | |
| ALL | Large | 0.08 * | 0 * | 48 = | 0 | \$18.61 \$ | - | 0 |
| | Small | 0.08 * | 1 * | 87 = | 6 | \$18.61 \$ | 113 | 76 |
| SECTOR 30. Superalloy Producers and Users | | | | | | | | |
| ALL | Large | 0.08 * | 38 * | 18 = | 54 | \$19.08 \$ | 1,031 | 676 |
| | Small | 0.08 * | 0 * | 0 = | 0 | \$19.08 \$ | - | |
| SECTOR 31. Construction | | | | | | | | |
| Industrial Rehabilitation & Maintenance | Large | 0.08 * | 21 | 55 | 94 | \$21.96 \$ | 2,064 | 1,175 |
| | Small | 0.08 * | 1 | 196 | 14 | \$21.96 \$ | 307 | 175 |
| | State Gov't | 0.08 * | 1 | 16 | 1 | \$21.96 \$ | 25 | 14 |
| | Local Gov't | 0.08 | 1 | 74 | 5 | \$21.96 \$ | 115 | 66 |
| Hazardous Waste Site Work | Large | 0.08 * | 12 | 44 | 43 | \$21.96 \$ | 952 | 542 |
| | Small | 0.08 * | 3 | 143 | 31 | \$21.96 \$ | 670 | 381 |
| | State Gov't | 0.08 * | 2 | 1 | 0 | \$21.96 \$ | 3 | 2 |
| | Local Gov't | 0.08 * | 3 | 201 | 43 | \$21.96 \$ | 941 | 535 |
| Refractory Brick Restoration & Maintenance | Large | 0.08 * | 12 | 48 | 48 | \$21.96 \$ | 1,049 | 597 |
| | Small | 0.08 * | 1 | 148 | 10 | \$21.96 \$ | 230 | 131 |

Table 33

| | | RECTIME | EMPEXP | #PLANTS | HOURS | CLWAGE | COST | Responses |
|-------|--|---------|--------|---------|--------|--------|------------|-----------|
| TOTAL | | | | 77,227 | 33,720 | | \$ 701,388 | 421,495 |

Table 34

Access to Records

The employer must provide, upon request, information to OSHA during the context of a compliance inspection. Providing access to such materials should require no more than 5 minutes of supervisor time.

Number of total facilities covered by the Standard = 77,770

Inspection Rate (1.4%)

Number of Inspection = 77,770 *1.4%= 1,089

Highest Supervisory Wage Rate = \$54.55

| | | | Burden Hours | | | Cost |
|--------|--|-------------------------|---------------------|--|-----------|-------------|
| 1,089* | | 0.08 (supervisor hrs.)= | 87* | | \$54.55 = | \$4,746.00 |